

# MACH**Energy**



## **Appendix E**

### Aboriginal Cultural Heritage Assessment



# Mount Pleasant Operation Rail Modification

## Aboriginal Cultural Heritage Assessment

Prepared for MACH Energy Australia Pty Ltd

December 2017

Muswellbrook Shire Local Government Area

## Document control

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Cairns

## Executive Summary

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Niche Environment and Heritage Pty Ltd (Niche) was commissioned by MACH Energy Australia Pty Ltd (MACH Energy) to prepare an Aboriginal Cultural Heritage Assessment for a proposed modification to the Mount Pleasant Operation Development Consent (DA 92/97) (the Modification). The Modification would primarily comprise:

- Duplication of the approved rail spur, rail loop and associated conveyor and rail load-out facility.
- Duplication of the Hunter River water supply pump station (including power supply) and associated water pipeline that currently follows the rail spur alignment.
- Demolition and removal of the redundant approved infrastructure within the extent of the Bengalla Mine once the new rail, product loading and water supply infrastructure has been commissioned and is fully operational.

The assessment included both Aboriginal heritage survey and archaeological test excavation in select areas, and involved the participation of the Aboriginal community throughout the assessment.

The archaeological survey and test excavation resulted in the identification of five (5) Aboriginal heritage sites comprised of 21 Aboriginal stone artefacts, and concluded that the area generally has low archaeological potential and low scientific significance. Of the identified sites, only three (3) are located within the Modification area and may be subject to impacts associated with the Modification.

On the basis of the investigation, Niche has identified a number of recommendations for MACH Energy in relation to the management of Aboriginal heritage associated with the Modification. In particular, it is recommended that MACH Energy seeks an Aboriginal Heritage Impact Permit (or a variation to an existing permit) for the impacts associated with the Modification.



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## Glossary, Abbreviations and Acronyms

Term	Definition
Aboriginal cultural heritage	The tangible (objects) and intangible (dreaming stories, legends and places) cultural practices and traditions associated with past and present day Aboriginal communities
ACHA	Aboriginal Cultural Heritage Assessment
ACHCRs	<i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> (NSW Department of Environment, Climate Change and Water, 2010a)
AHIP	Aboriginal Heritage Impact Permit
AHIMS	Aboriginal Heritage Information Management System
Aboriginal object(s)	The legal definition for material for Aboriginal cultural heritage under the NSW <i>National Parks and Wildlife Act, 1974</i>
Archaeology	The scientific study of material traces of human history, particularly the relics and cultural remains of past human activities
Archaeological deposit	A layer of soil material containing archaeological objects and/or human remains
Archaeological site	An area that contains surface or sub surface material evidence of past human activity in which material evidence (artefacts) of past activity is preserved
Artefact	An object made by human agency (e.g. stone artefacts)
Assemblage	A group of artefacts found in close association with one another Any group of items designated for analysis that exist in spatial and/or vertical context – without any assumptions of chronological or spatial relatedness
Avoidance	A management strategy which protects Aboriginal sites within an impact area by avoiding these totally in development
BP	Before Present
cm	centimetre
cm <sup>2</sup>	square centimetre
Cumulative impacts	Combination of individual effects of the same kind due to multiple actions from various sources over time
CHL	Commonwealth Heritage List
DECCW	The Department of Conservation, Climate Change and Water, now the Office of Environment and Heritage (OEH)
Development	The processes involved in preparing the Study Area for the proposed activities that will have direct and/or indirect physical impact(s) in the one or more forms such as construction, excavation, demolition, clearing etc.
Drainage	Natural or artificial means for the interception and removal of surface or subsurface water
EA	Environmental Assessment
EP&A Act	<i>NSW Environmental Planning and Assessment Act, 1979</i>
EPBC Act	<i>Commonwealth Environment Protection and Biodiversity Conservation Act, 1999</i>
Flake	A piece of stone detached from a core by human activity, displaying a number of attributes such as bulb of percussion, striking platform, termination etc.
Harm	As defined in the NSW <i>National Parks and Wildlife Act 1974</i>
ha	hectare
Impact	Influence or effect exerted by a development or other activity on the natural, built and community environment
Impact area	An area that will be the subject to the particular impact



Term	Definition
<i>In situ</i>	Latin words meaning 'on the spot, undisturbed' - In archaeological terminology it is used for objects found in the original location of discard
Isolated artefact / find	A single artefact found in an isolated context
km	kilometre
Landscape unit	An area of common landform, and frequently with common geology, soils and vegetation types, occurring repeatedly at similar points in the landscape over a defined region - It is a constituent part of a land system
Landform	Any one of the various features that make up the surface of the earth
Methodology	The procedures used to undertake an activity, e.g. archaeological investigation
m	metre
m <sup>2</sup>	square metres
MPO	Mount Pleasant Operation
NHL	National Heritage List
NPW Act	<i>NSW National Parks and Wildlife Act, 1974</i>
NPW Regulation	<i>NSW National Parks and Wildlife Regulation, 2009</i>
NSW	New South Wales
OEH	NSW Office of Environment and Heritage
PAD	Potential archaeological deposit A location considered to have a potential for subsurface archaeological material
RAP	Registered Aboriginal Party Members of a Local Aboriginal Land Council, registered holders of Native Title, Aboriginal groups or other Aboriginal people who may have an interest in the Modification
RNE	Register of the National Estate
SHI	State Heritage Inventory
SHR	State Heritage Register
Site	See 'Archaeological site' above
Survey coverage	A graphic and statistical representation of how much of a particular area was actually surveyed and therefore assessed

# 1. Introduction

---

## 1.1 Background

MACH Energy Australia Pty Ltd (MACH Energy) requires an Environmental Assessment (EA) to facilitate a proposed Rail Modification to the approved Mount Pleasant Operation (MPO) (here on referred to as 'the Modification') under section 75W of the New South Wales (NSW) *Environmental Planning and Assessment Act, 1979* (EP&A Act). The MPO is located directly north of the approved Bengalla Mine, approximately 3 kilometres (km) north-west of Muswellbrook, NSW (Figure 1).

The MPO Development Consent DA 92/97 was granted on 22 December 1999. The MPO was also approved under the Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* (EPBC Act) in 2012 (EPBC 2011/5795).

MACH Energy acquired the MPO from Coal & Allied Operations Pty Ltd (Coal & Allied) on 4 August 2016. MACH Energy commenced construction activities at the MPO in November 2016, in accordance with Development Consent DA 92/97 and EPBC 2011/5795.

The approved MPO includes the construction and operation of an open cut coal mine and associated rail spur and product coal loading infrastructure. The mine is approved to produce up to 10.5 million tonnes per annum of run-of-mine coal. Up to approximately nine trains per day of thermal coal product from the MPO will be transported by rail to the port of Newcastle for export or to domestic customers for use in electricity generation.

## 1.2 Scope of Assessment

Niche Environment and Heritage Pty Ltd (Niche) has been commissioned by MACH Energy to undertake an Aboriginal Cultural Heritage Assessment (ACHA) to inform the EA being prepared for the Modification. The ACHA for the Modification will specifically assess those areas associated with the Modification, and includes survey of those areas that have not been covered by previous assessments, surveys and investigations.

Although the ACHA for the Modification considered the entire Study Area, the focus of the surveys and impact assessment was on those portions of the Modification that are located outside of the extent of the approved Aboriginal Heritage Impact Permit (AHIP) #C0002053 boundary (i.e. those areas subject to previous assessment and/or salvage and management activities).

This ACHA will also be used to support an application for a new AHIP(s) (and/or a variation to an existing AHIP[s]) under section 90 of the NSW *National Parks and Wildlife Act, 1974* (NPW Act).

## 1.3 The Proposed Modification

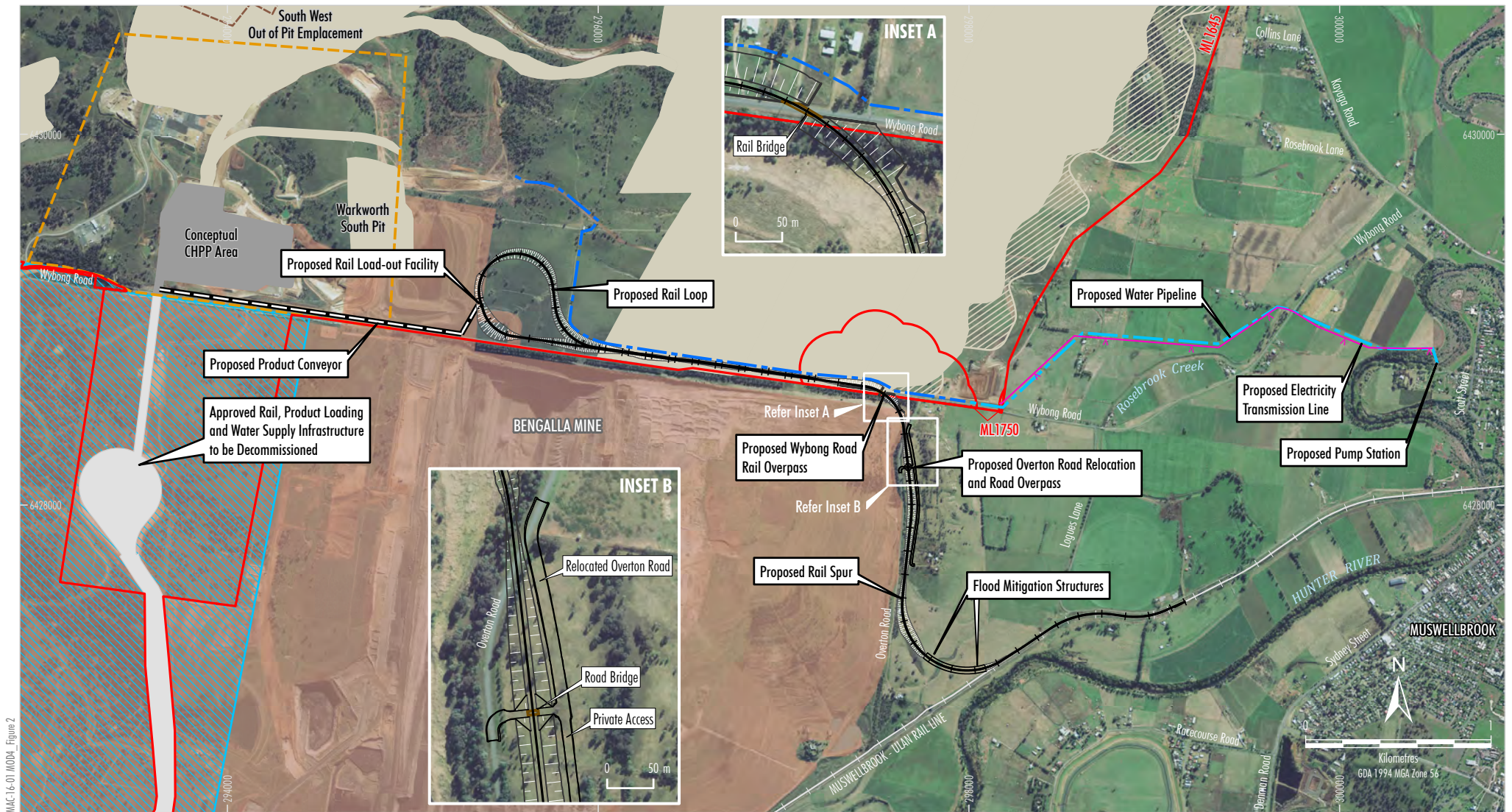
The ultimate extent of the approved Bengalla Mine open cut intersects the approved MPO rail spur. While the intersection of the Bengalla Mine open cut with the approved MPO rail infrastructure is still some years away, MACH Energy is proposing a Modification to obtain approval for future rail and/or conveyor product transport facilities to manage this future interaction.

Further details regarding the Modification are provided in Section 3.

The general arrangement of the Modification is presented on Figure 2.







MAC-16-01 MOD-1 Figure 2

- LEGEND**
- Mining Lease Boundary
  - Infrastructure Area Envelope
  - Indicative Off-site Coal Transport Infrastructure
  - Approximate Extent of Approved Surface Development (1997 EIS Year 20)\*
  - Conveyor/Services Corridor Envelope
  - Bengalla Mine Approved Disturbance Boundary (SSD-5170) Subject to Separate Modification (Modification 3)
  - Emplacement Extension
  - Area Relinquished for Overburden Emplacement and Major Infrastructure

- Key Elements of the Modification #**
- Proposed Rail
  - Proposed Product Conveyor
  - Proposed Water Pipeline - Above Ground
  - Proposed Water Pipeline - Buried
  - Proposed Pump Station Electricity Transmission Line

**Notes:**

\* Excludes some project components such as water management infrastructure, infrastructure within the Infrastructure Area Envelope, off-site coal transport infrastructure, road diversions, access tracks, topsail stockpiles, power supply, temporary offices, other ancillary works and construction disturbance.

# Modification would also include additional minor components not shown, e.g. access tracks, rail signalling and electricity supply, etc.

Source: NSW Land & Property Information (2017); NSW Division of Resources & Geoscience (2017); Department of Planning and Environment (2016); MACH Energy (2017)  
Orthophoto: MACH Energy (July 2017)

**MACHEnergy**  
MOUNT PLEASANT OPERATION  
General Arrangement of the  
Key Modification Elements

**Figure 2**

## 1.4 Objectives of the Assessment

The objectives of the ACHA are to provide an assessment of the potential for the Modification to harm Aboriginal objects and Aboriginal heritage values, and outline recommended management measures (where required), in accordance with current best practice and informed by input from the Aboriginal community.

The ACHA has been prepared in accordance with (but not limited to) the following regulations and guidelines:

- *Aboriginal cultural heritage consultation requirements for proponents 2010* (ACHCRs) (NSW Department of Environment, Climate Change and Water [DECCW], 2010a);
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b);
- *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW, 2010c);
- *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects* (NSW Minerals Council, 2010);
- *Guide to Investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (NSW Office of Environment and Heritage [OEH], 2011);
- *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance* (Australia International Council on Monuments and Sites [ICOMOS], 2013);
- *Engage Early* (Commonwealth Government, 2016); and
- *NSW National Parks and Wildlife Regulation, 2009* (NPW Regulation).

The ACHA has also been prepared in consideration of the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017).



## 2. Description of the Study Area

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The Study Area is situated within the Hunter Valley, approximately 3 km north-west of Muswellbrook, NSW (Figure 1). The Study Area covers approximately 455 hectares (ha) (Figure 3). Part of the Study Area (i.e. approximately 9.5 ha) has been previously subject to systematic Aboriginal heritage surveys during previous assessment and management activities, and is located within the extent of approved AHIP #C0002053 held by MACH Energy.

The unsurveyed section of the Study Area covers approximately 216 ha, and is the focus of the surveys undertaken for this assessment.

The Study Area stretches across landscapes that include the flood plains of the Hunter River and steep lower to upper slopes of rolling hills situated on the western edge of the flood plains. The Study Area is cleared of most native vegetation and is currently used for intensive cattle grazing and agricultural practices, as well as mining and existing rail infrastructure.

The area subject to archaeological survey for this assessment was larger than the current Study Area and larger than the more refined potential impact area. Detailed mine planning and refinement of the final proposed disturbance area has resulted in the contraction of the conservative footprint for the Modification, and avoidance of direct impact to some identified heritage sites. The footprint of the Modification is approximately 69 ha.

For the purposes of this assessment, the following general terminology will be used:

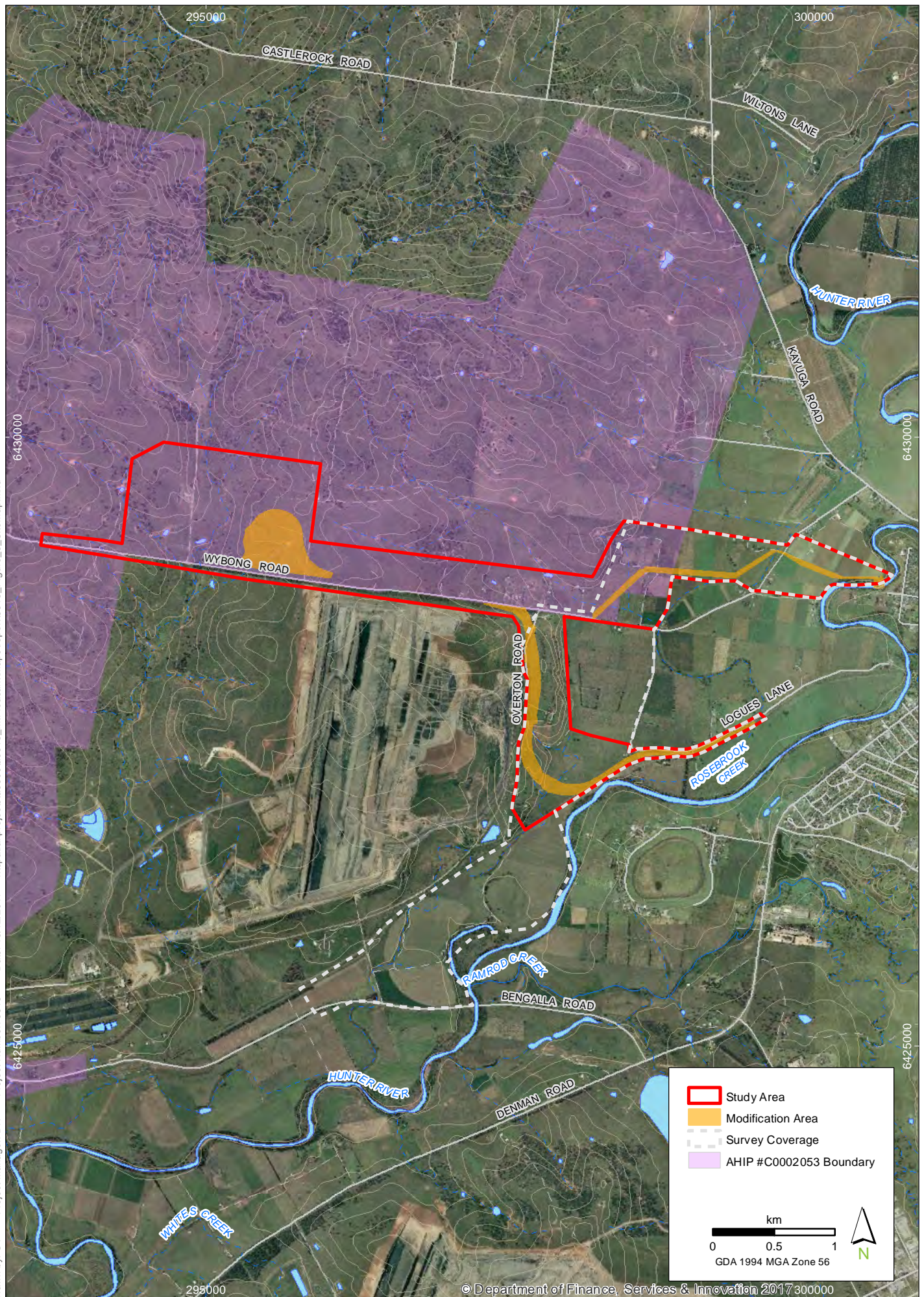
- **Study Area:** the broad area generally considered in this assessment, including the impact area and surrounds (approximately 455 ha).
- **Survey area:** the larger area subject to systematic survey as part of this assessment (and later refined) (approximately 216 ha).
- **Modification area:** the smaller and more refined area (although still considered conservative) considered for potential impacts to Aboriginal heritage not already covered by the correctly approved AHIP #C0002053 (approximately 47 ha)<sup>1</sup>.

These boundaries are presented on Figure 3. Cadastral information is provided in Appendix 10.

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<sup>1</sup> Excludes existing approved areas and/or existing infrastructure (e.g. Overton Road, Wybong Road, existing rail and Bengalla Mine waste emplacement).





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Study Area

MPO Rail Modification

**FIGURE 3**

Imagery: (c) LPI 2013



### 3. Description of the Modification

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As outlined in Section 1.3, the ultimate extent of the approved Bengalla Mine open cut will intersect the approved MPO rail spur. While the intersection of the Bengalla Mine open cut with the approved MPO rail infrastructure is still some years away, MACH Energy is proposing a Modification to obtain approval for future rail and/or conveyor product transport facilities to manage this future interaction.

In this regard, the Modification would primarily comprise:

- Duplication of the approved rail spur, rail loop and associated conveyor and rail load-out facility.
- Duplication of the Hunter River water supply pump station (and power supply) and associated water pipeline that currently follows the rail spur alignment.
- Demolition and removal of the redundant approved infrastructure within the extent of the Bengalla Mine once the new rail, product loading and water supply infrastructure has been commissioned and is fully operational.

The earth works associated with the Modification have the potential to harm Aboriginal objects which may exist on the ground surface (such as stone artefacts and scarred trees) or in the soil profile (i.e. subsurface archaeological deposits).

The Modification would not alter the number of approved train movements on the rail network or the operational workforce of the MPO. Once constructed, the operation and maintenance of the Modification would pose no further risk of harm to Aboriginal objects or Aboriginal cultural heritage values that may be present.

The Modification would be assessed under section 75W of the EP&A Act and, if approved, require an AHIP (or variation to an existing permit). The development of the Modification would occur as soon as practicable following all necessary approvals.

## 4. Investigators and Contributors

This investigation was managed by Balazs Hansel (MA Arch), Senior Heritage Consultant (Niche), who has 17 years' experience as a professional archaeologist and heritage consultant.

In addition, the individuals listed in Table 1 attended and/or supported the surveys and assessment in various capacities.

Consultation with the Registered Aboriginal Parties (RAPs) for the ACHA is being managed by MACH Energy. All of the RAPs are invited to provide advice on Aboriginal cultural heritage values during the assessment, regardless of participation in the archaeological survey work or archaeological test excavations.

**Table 1: Investigators and Contributors to the Assessment**

Contributor	Affiliation	Role	Qualification
Balazs Hansel	Niche	Senior Archaeologist, project manager, test excavation assistance, author	MA Arch, MA Hist 17 years
Renée Regal	Niche	Heritage Team Leader, survey assistance, author	BA(Hons) 12 years
Sam Richards	Niche	Archaeologist, survey assistance	BA (Hons) 3 years
Simon Greenwood	Niche	Archaeologist, survey assistance	BA (Hons) 20 years
Caitlin Marsh	Niche	Archaeologist, test excavation assistance, author	BA(Hons) 4 years
Clare Leever	Niche	Archaeologist, test excavation assistance, author	BArch, GradDipArch 4 years
Duncan Jones	Niche	Archaeologist, test excavation assistance	BA (Hons) 10 years
Ross Jenkins	Niche	GIS, mapping	BSc, MSc, Grd Dip GIS, PhD
Jamie Reeves	Niche	Director of Niche, internal review	BA (Hons) 18 years
Rhonda Ward	Ungooroo Cultural and Community Services Incorporated	Field assistance, provision of cultural knowledge	
George Sampson	Cacatua General Services	Field assistance, provision of cultural knowledge	
Ashley Sampson	AGA Services	Field assistance, provision of cultural knowledge	
Maree Waugh	Wallangan Cultural Services	Field assistance, provision of cultural knowledge	
Jenny-lee Chambers	JLC Cultural Services	Field assistance, provision of cultural knowledge	
Clifford Johnson	Upper Hunter Wonnarua Council	Field assistance, provision of cultural knowledge	
David Horton	Gomery Cultural Consultants	Field assistance, provision of cultural knowledge	
Owen Davidson	Wanaruah Local Aboriginal Land Council	Field assistance, provision of cultural knowledge	

Contributor	Affiliation	Role	Qualification
Natasha Kellett	Wanaruah Local Aboriginal Land Council	Field assistance, provision of cultural knowledge	
John Matthews	Aboriginal Native Title Elders Consultant	Field assistance, provision of cultural knowledge	
Darryl Matthews	Upper Hunter Heritage Consultants	Field assistance, provision of cultural knowledge	
Coleen Stair	Crimson Rose	Field assistance, provision of cultural knowledge	
Maree Waugh	Wonnarua Nation Aboriginal Corporation	Field assistance, provision of cultural knowledge	



## 5. Statutory Framework and Other Approvals

---

The NPW Act, administered by the OEH, provides statutory protection for Aboriginal objects and the management of Aboriginal Heritage in NSW. The NPW Act defines Aboriginal objects and Aboriginal places as:

*Aboriginal object means 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.*

*Aboriginal place means any place declared to be an Aboriginal place under section 84.*

The OEH is responsible for the implementation of the Aboriginal heritage provisions of the NPW Act. The rationale behind the NPW Act is to prevent the unnecessary or unwanted destruction of Aboriginal objects and to protect and conserve objects where such action is considered not warranted.

Consents regarding harm to Aboriginal objects are managed through the OEH AHIP system. AHIPs are typically required (apart from Part 3A Major Projects and Part 4 Division 4.1 State Significant Developments) to allow any impacts to an Aboriginal object or Aboriginal place.

MACH Energy currently holds two separate AHIPs relevant to the MPO area for the management of Aboriginal heritage, including:

- AHIP #C0002053 – approved by the OEH on 25 August 2016 for a period of 10 years.
- AHIP #C0002092 – initially approved by the OEH on 23 December 2011 for a period of 5 years. This AHIP was transferred to MACH Energy on 8 September 2016 and the approval period was extended to 23 December 2020.

This ACHA will be used to support an application for a new AHIP(s) (and/or a variation to an existing AHIP[s]) under section 90 of the NPW Act.

## 6. Consultation with the Aboriginal Community

---

In administering its statutory functions under Part 6 of the NPW Act, the OEH requires that proponents consult with Aboriginal people about the Aboriginal cultural heritage values (cultural significance) of Aboriginal objects and/or places within any given development area in accordance with clause 80C of the NPW Regulation.

The OEH maintains that the objective of consultation with Aboriginal communities about the cultural heritage values of Aboriginal objects and places is to ensure that Aboriginal people have the opportunity to improve ACHA outcomes by (DECCW, 2010a):

- providing relevant information about the cultural significance and values of Aboriginal objects and/or places;
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects and/or places;
- actively contributing to the development of cultural heritage management options and recommendations for any Aboriginal objects and/or places within the proposed Study Area; and
- commenting on draft assessment reports before these are submitted by the proponent to the OEH.

Consultation in the form outlined in the ACHCRs (DECCW, 2010a) is a formal requirement where a proponent is aware that their development activity has the potential to harm Aboriginal objects or places. The OEH also recommends that these requirements be used when the certainty of harm is not yet established but a proponent has, through some formal development mechanism, been required to undertake an ACHA to establish the potential harm their proposal may have on Aboriginal objects and places.

The ACHCRs outline a four-stage consultation process that includes detailed step-wise guidance as to the aim of the stage, how it is to proceed and what actions are necessary for it to be successfully completed. The four stages are:

- Stage 1 – Notification of project proposal and registration of interest.
- Stage 2 – Presentation of information about the proposed project.
- Stage 3 – Gathering information about the cultural significance.
- Stage 4 – Review of draft cultural heritage assessment report.

The document also outlines the roles and responsibilities of the OEH, Aboriginal parties including local and state Aboriginal Land Councils and proponents throughout the consultation process.

To meet the requirements of consultation it is expected that proponents will (DECCW, 2010a):

- bring the RAPs, or their nominated representatives, together and be responsible for ensuring appropriate administration and management of the consultation process;
- consider the cultural perspectives, views, knowledge and advice of the RAPs involved in the consultation process in assessing cultural significance and developing any heritage management outcomes for Aboriginal objects(s) and/or places(s);
- provide evidence to the OEH of consultation by including information relevant to the cultural perspectives, views, knowledge and advice provided by the RAPs;
- accurately record and clearly articulate all consultation findings in the final ACHA report; and
- provide copies of their ACHA report to the RAPs who have been consulted.

The consultation process undertaken to seek active involvement from relevant Aboriginal representatives for the Modification followed the current NSW statutory guideline, namely, the ACHCRs. Section 1.3 of the ACHCRs describes the guiding principles of the document. The principles have been derived directly from the Principles section of the Australian Heritage Commission's *Ask First: A guide to respecting Indigenous heritage places and values* (Australian Heritage Commission, 2002). Both documents share the aim of creating a system where free prior informed advice can be sought from the Aboriginal community.

The following sections outline the process and results of the consultation conducted during this assessment to ascertain and reflect the Aboriginal cultural heritage values of the Study Area.

## 6.1 Stage 1 – Notification and Registration

This stage of the consultation process is used to identify any Aboriginal people or groups who may have a cultural interest in and/or possess cultural knowledge in relation to the Modification area. In accordance with Section 4.1.2 of the ACHCRs (DECCW, 2010a), project notifications (Appendices 1 and 2) were sent on 4 May 2017 to the relevant organisations. The organisations contacted and the dates of correspondence are provided in Table 2.

**Table 2: List of Contacted Organisations for Step 1 of Consultation Process**

Name of Organisation	Date of Notification Sent	Date of Response Received
OEH	4 May 2017	11 May 2017
Wanaruah Local Aboriginal Land Council	4 May 2017	10 May 2017
National Native Title Tribunal	4 May 2017	-
Native Title Services Corporation Limited	4 May 2017	-
Office of the Registrar, <i>Aboriginal Land Rights Act, 1983</i>	4 May 2017	26 May 2017
Muswellbrook Shire Council	4 May 2017	24 May 2017
Hunter Local Land Services	4 May 2017	-

As a result of contacting the relevant organisations, a number of individuals and groups were identified as potentially having an interest in the Modification area. An invitation was sent out to each individual/group inviting Aboriginal persons or groups who hold cultural knowledge relevant to, or who have right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the “Area of Interest” to register an interest in the Modification by 16 June 2017 (Appendices 1 and 2).

In addition in accordance with Section 4.1.3 of the ACHCRs, public notices inviting the registration of Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the “Area of Interest” were published in the *Singleton Argus* and *Koori Mail* on 31 May 2017, and the *Muswellbrook Chronicle* on 2 June 2017 (Appendices 1 and 2).

In addition, a large number of Aboriginal stakeholder groups with an interest in the MPO have previously been identified (in compliance with the ACHCRs) and MACH Energy (and previously Coal & Allied) has maintained on-going consultation and engagement with these groups since the time of their initial registration. All existing Aboriginal stakeholder groups were contacted to advise them of the Modification and to notify them that they had been automatically registered for the consultation process associated with the Modification (Appendices 1 and 2).

As a result of the registration process undertaken for the Modification, a total of 88 RAPs registered an interest in the Modification. A list of the RAPs for the Modification is provided in Appendix 8. A copy of this list was provided to the Wanaruah Local Aboriginal Land Council and the OEH on 6 July 2017.

A consultation log detailing all Aboriginal community consultation undertaken for the Modification is provided in Appendix 1. The Proposed Methodology for the assessment and a copy of relevant written correspondence sent to and received from the RAPs are provided in Appendix 3 and 2, respectively.

## **6.2 Stage 2 and 3 – Presentation of Project Information and Gathering Information about Cultural Heritage Significance**

### **6.2.1 Proposed Methodology and Information Session**

Information regarding the Modification was provided in writing to all RAPs on 8 September 2017. A copy of the Proposed Methodology for the ACHA was provided for their review and comment in accordance with the ACHCRs (DECCW, 2010a), with a minimum of 28 days allowed for RAPs to provide input on:

- The nature of the Proposed Methodology.
- Any Aboriginal objects or places of cultural value within the indicative Study Area, or issues of cultural significance.
- Any restrictions or protocols considered necessary in relation to any information of sensitivity that may be provided.
- Any other factors considered to be relevant to the heritage assessment.

In addition, all RAPs were invited to provide advice on Aboriginal cultural heritage values at all stages during the preparation of the assessment.

Correspondence that included an invitation to attend an information session regarding the ACHA for the Modification was provided in writing to all RAPs on 19 September 2017. The information session was held at the John Hunter Motel in Muswellbrook, on 10 October 2017. The purpose of the information session was to provide RAPs with an additional opportunity to raise any cultural issues or comments/perspectives regarding the Modification or the Proposed Methodology. A total of 11 representatives of the RAPs attended the information session on 10 October 2017.

The information session supported the information previously provided in writing and included a presentation on the nature and scale of the approved Modification, an overview of the impact assessment process, a discussion of the roles, functions and responsibilities of participants and protocols for the management of any sensitive cultural heritage information. Copies of the attendance record for the information session and a copy of the Proposed Methodology are provided in Appendix 2 and 3 respectively.

### **6.2.2 Comments on Proposed Methodology**

Comments in support of the Proposed Methodology were received from the following RAPs:

- Culturally Aware (16 September 2017); and
- Gidawaa Walang Cultural Heritage Consultancy (5 October 2017).

A copy of the submissions are included in Appendix 2.

### 6.2.3 Test Excavation Proposed Methodology, Sampling Strategy and Additional Information Session

A Test Excavation Proposed Methodology and Sampling Strategy was provided to all RAPs for their review and comment on 19 September 2017, with further additional details and mapping provided on 13 October 2017.

Notification of the proposed archaeological test excavation was provided to the OEH on 5 October 2017, in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).

An additional information session was held at the John Hunter Motel in Muswellbrook on 17 October 2017, with 10 representatives of the RAPs attending. This additional meeting was held following the receipt of feedback from the RAPs during the initial information session (10 October 2017), the purpose of which was to describe the test excavation methodology in greater detail. Copies of the attendance record for the additional information session and the Test Excavation Proposed Methodology are provided in Appendix 2 and 3, respectively.

### 6.2.4 Aboriginal heritage field survey

The field survey for the Modification was held on 3 and 4 October 2017. Table 3 provides a list of the representatives from the RAPs that attended the field survey for the assessment. Engagement for the field surveys was undertaken consistent with the requirements of the approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017), including the use of 'administrative co-ordinators' to prepare the fieldwork roster.

**Table 3: Field Survey Attendees**

Representative	RAP	Survey Dates Attended
Rhonda Ward	Ungooroo Cultural and Community Services Incorporated	Tuesday 3 October 2017 Wednesday 4 October 2017
George Sampson	Cacatua General Services	Tuesday 3 October 2017 Wednesday 4 October 2017
Ashley Sampson	AGA Services	Tuesday 3 October 2017 Wednesday 4 October 2017
Maree Waugh	Wallangan Cultural Services	Tuesday 3 October 2017 Wednesday 4 October 2017
Jenny-lee Chambers	JLC Cultural Services	Tuesday 3 October 2017 Wednesday 4 October 2017
Clifford Johnson	Upper Hunter Wanaruah Council	Tuesday 3 October 2017 Wednesday 4 October 2017

During the field surveys, attending RAPs were invited each day to provide any cultural information or values associated with the Modification area or wider surrounds. For example, the archaeologists encouraged participants to provide input on bush tucker, fauna and other cultural associations/knowledge of the Modification area.



## 6.2.5 Test excavation program

The archaeological test excavation program for the Modification was held from 23 October to 27 October 2017. Table 4 provides a list of the representatives from the RAPs that attended the test excavation program. As for the field surveys described above, engagement for the test excavation program was undertaken consistent with the requirements of the approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017), including the use of ‘administrative coordinators’ to prepare the fieldwork roster.

**Table 4: Test Excavation Program Attendees**

Representative	RAP	Survey Dates Attended
David Horton	Gomery Cultural Consultants	Monday 23 October to Wednesday 25 October 2017
Owen Davidson	Wanaruah Local Aboriginal Land Council	Monday 23 October to Friday 27 October 2017
Natasha Kellett	Wanaruah Local Aboriginal Land Council	Monday 23 October to Friday 27 October 2017
John Matthews	Aboriginal Native Title Elders Consultant	Monday 23 October to Friday 27 October 2017
Darryl Matthews	Upper Hunter Heritage Consultants	Monday 23 October to Thursday 26 October 2017
Clifford Johnson	Upper Hunter Wanaruah Council	Thursday 26 October to Friday 27 October 2017
Coleen Stair	Crimson Rose	Monday 23 October to Friday 27 October 2017
Maree Waugh	Wonnarua Nation Aboriginal Corporation	Tuesday 24 October to Friday 27 October 2017

During the test excavations, attending RAPs were invited each day to provide any cultural information or values associated with the Modification area or wider surrounds. For example, the archaeologists encouraged participants to provide input on bush tucker, fauna and other cultural associations/knowledge of the Modification area.

## 6.3 Stage 4 – Review of Draft Report

In accordance with the ACHCRs (DECCW, 2010a), a draft of this ACHA was provided to all RAPs listed in Appendix 8 for review and comment on 10 November 2017, with responses requested by 13 December 2017.

As part of the draft review ACHA review process, MACH Energy invited all RAPs to attend an information session on 7 December 2017 at the MPO administration offices. The purpose of the information session was to provide an opportunity for RAPs to discuss, ask questions and/or provide comment on the draft ACHA, particularly the cultural significance and proposed management measures. The information session also included an opportunity to attend a site inspection (i.e. in addition to the field surveys and the archaeological test excavations) to view the Study Area and a selection of the recorded Aboriginal heritage sites. A total of five RAPs attended the information session (Appendix 2).

A verbal comment in support of the draft ACHA was received on 16 November 2017, i.e. a RAP, Norman Archibald, called to advise that he had no concerns with the draft ACHA (Appendix 1). As at 15 December 2017 no other comments had been received.

## 6.4 Review of Final Report

A copy of the final ACHA will be made available by the Department of Planning and Environment to all RAPs during the exhibition period for the Modification EA. During this exhibition period all RAPs will have the opportunity to review and provide additional comments on the final ACHA as well as any other part of the EA.

## 7. Heritage Register Searches

### 7.1 Commonwealth Registers

Under the EPBC Act two mechanisms have been created for the protection of heritage places of National or Commonwealth significance (<http://www.environment.gov.au/heritage/places/national/index.html>) – the National Heritage List (NHL) and the Commonwealth Heritage List (CHL). The NHL provides protection to places of cultural significance to the nation of Australia, while the CHL comprises natural, Aboriginal and historic heritage places owned and controlled by the Commonwealth. There are no management constraints associated with listing on the Register of the National Estate (RNE) unless the listed place is owned by a Commonwealth agency.

A search of the online Australian Heritage Database, which includes items from the CHL and RNE was conducted on 31 October 2017. Search terms used were: Muswellbrook. No heritage items were identified within or in close proximity to the Study Area.

### 7.2 State Registers

#### 7.2.1 State Heritage Register

The *State Heritage Register* (SHR) holds items that have been assessed as being of State Significance to NSW. The *State Heritage Inventory* (SHI) contains items that are listed on Local Environmental Plans and/or on a State Government Agency's section 170 register (OEH website – [www.heritage.nsw.gov.au/index.html](http://www.heritage.nsw.gov.au/index.html)). An assessment of heritage significance is required for items greater than 50 years in age. Items appearing on either the SHR or SHI have been granted a defined level of statutory protection under NSW legislation.

Searches of the SHR and SHI were completed on 31 October 2017. No heritage items were listed within the Study Area, or in the immediate surrounds.

#### 7.2.2 Environmental Planning and Assessment Act Registers

Each Local Government Area is required to create and maintain a Local Environmental Plan that identifies and conserves Aboriginal and historic heritage items. These items are protected under the EP&A Act and the NSW *Heritage Act, 1977*.

A search of the *Muswellbrook Local Environmental Plan 2009* was undertaken on 31 October 2017. There are no Aboriginal heritage items listed in the *Muswellbrook Local Environmental Plan 2009* that are located specifically within the Study Area or immediate surrounds. There are two heritage items listed in Schedule 5 of the *Muswellbrook Local Environmental Plan 2009* which are located within the wider Study Area, including "Overdene Homestead" and "Blunt's Butter Factory". These items are considered further in a separate assessment.

In summary there were no items of Aboriginal heritage value identified on the Commonwealth heritage lists and registers, or the SHR and local heritage schedules.

### 7.2.3 National Parks and Wildlife Act Registers (AHIMS)

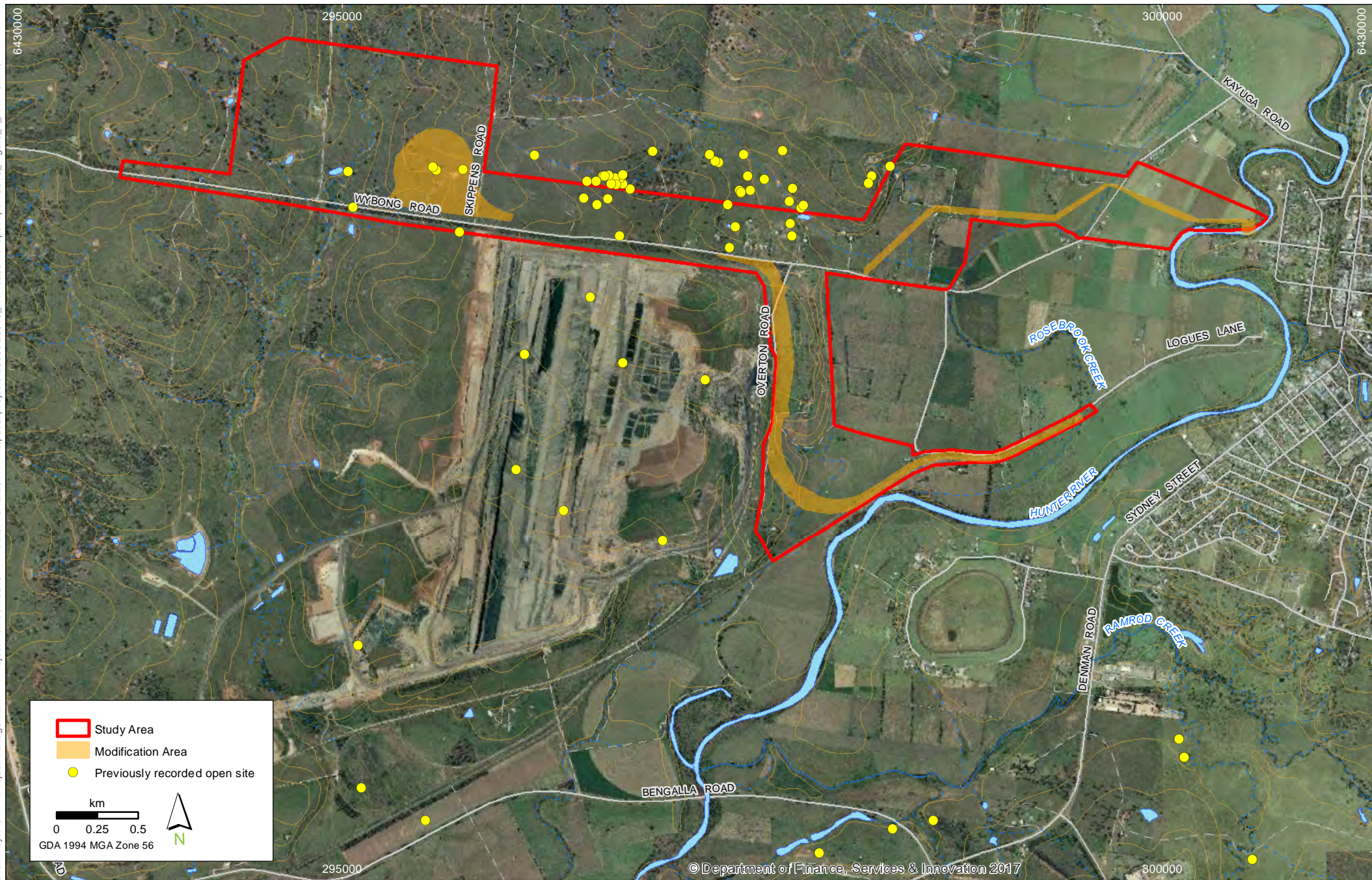
An extensive search of the Aboriginal Heritage Information Management System (AHIMS) was conducted on 22 September 2017 (AHIMS Search ID 303300; Appendix 6) for the Study Area and immediate surrounds (Figure 4).

The search identified a total of 67 Aboriginal sites, a portion of which are located within the Study Area. Of the 67 sites recorded on the AHIMS register, a total of 65<sup>2</sup> are stone artefacts (including both isolated finds and artefact scatters). Of these sites, a number have been subject to previous management under existing permits and consents (e.g. AHIP #C0002053). Of note, the AHIMS search results did not identify any previously recorded sites within the survey area for this assessment.

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<sup>2</sup> The remaining two sites are previously recorded scarred trees that have been subject to formal reassessment with the status revised on AHIMS as 'not a site'. These sites are not considered further in this assessment.





Location of AHIMS Registered Sites

MPO Rail Modification

**FIGURE 4**

Imagery: (c) LPI 2013



## 8. Landscape Context

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### 8.1 Overview

Consideration of the landscape is essential to the definition and interpretation of past Aboriginal land use across a landscape, and is a requirement of any Aboriginal archaeological and cultural heritage investigation (DECCW, 2010a: 8). The landscape may provide clues as to those areas of land that may have been more intensively used by Aboriginal people in the past due to the presence of resources such as water, stone, plants and animals; and other raw materials or landscape features associated with sustenance, shelter, tool manufacture and cultural activities.

The landscape provides the context within which the material remains of past Aboriginal occupation may be preserved and detected, due to the movement of soil through geomorphic processes such as erosion or its removal from the landscape through past land use and disturbance (DECCW, 2010a: 8). By considering these factors, an Aboriginal cultural heritage investigation may develop a sampling strategy for identifying any tangible Aboriginal heritage values.

### 8.2 Topography

The Study Area is located in the Hunter Valley in a region identified as the Central Lowlands of the Hunter Valley. The Central Lowlands is defined as a belt of lowlands extending through the centre of the Hunter Valley between Newcastle and Murrurundi, that is developed on weak sedimentary rocks. It is comprised of an undulating or gently hilled landscape, with an abrupt transition to the steeper Southern Mountains in the south and north-eastern mountains to the north (Galloway, 1963: 92).

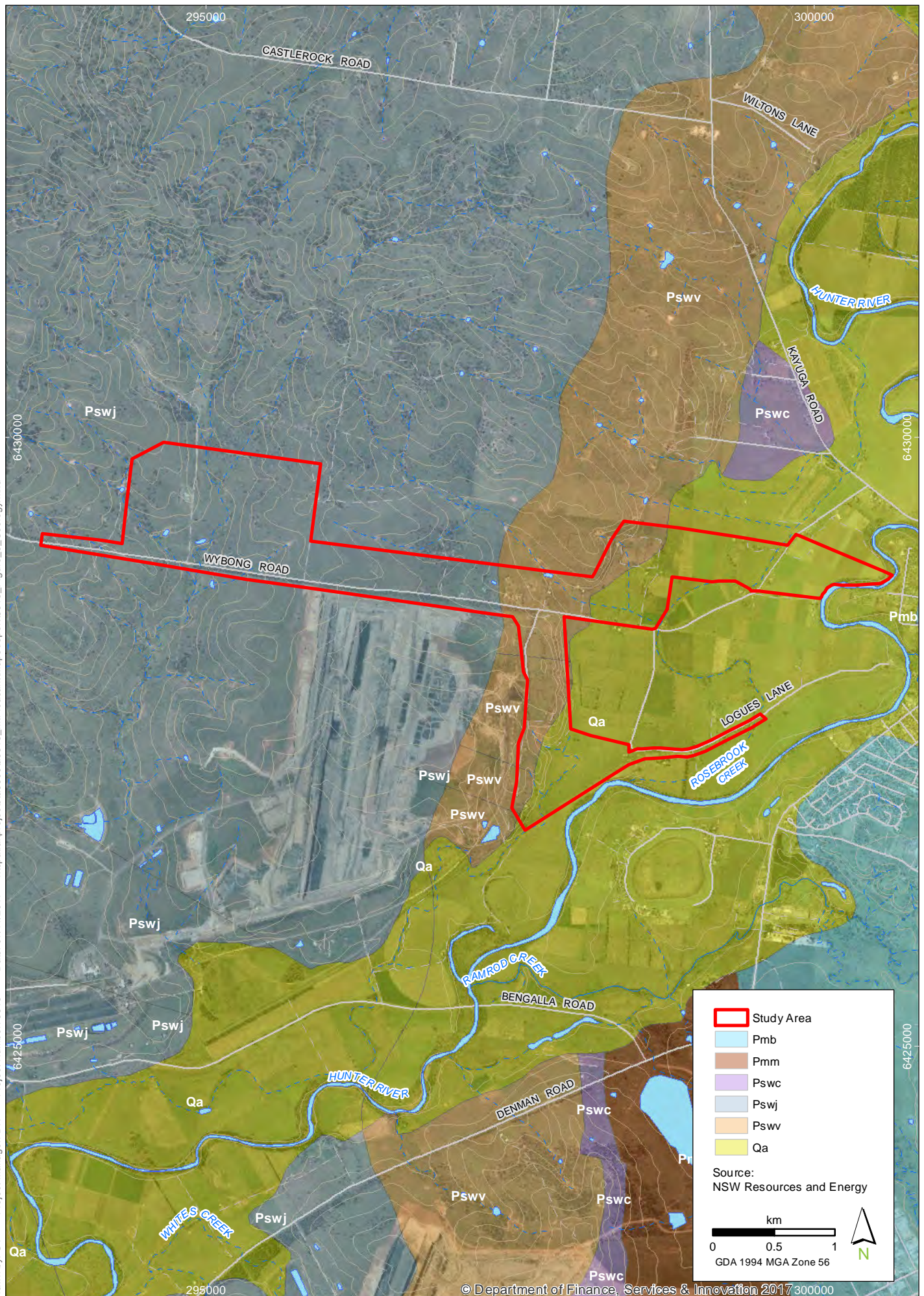
The Study Area is generally situated on the flood plains of the western side of the Hunter River and on the foot slopes and low ridges of the rolling hills located west of the flood plains. Elevation within the Study Area varies between approximately 139 metres (m) and 187 m above sea level. The lowest point is located on the western banks of the Hunter River in the north-eastern corner of the Study Area, while the highest point is located on the top of the low hill in the western section of the Study Area (Figure 3).

### 8.3 Geology

The Study Area is situated across three different geological formations (Figure 5) (Summerhayes, 1983). The eastern part is situated on the quaternary sediment consisting of sand, silty sand and stream sediment built up by the Hunter River. The central portion of the Study Area is situated on the Late Permian Wittingham Coal Measures and consists of rich coal-bearing sequences with occasional wedges of sandstone and siltstone. The western portion of the Study Area is also located on the Wittingham Coal Measures and consists of conglomerate, sandstone, siltstone and claystone.

There are no known raw material sources for the manufacture of stone artefacts in the Study Area, though the geological formations of the Late Permian Wittingham Measures and associated sandstone and siltstone intrusions are known to have provided exploitable raw materials across the region. Geological mapping for the Study Area is provided in Figure 5.





## Geology Mapping

MPO Rail Modification

### FIGURE 5

Imagery: (c) LPI 2013



## 8.4 Soils

Three soil landscapes have been mapped within the Study Area: the Hunter soil landscape, the Bayswater soil landscape and the Roxburgh soil landscape (Figure 6) (Kovac and Lawrie, 1991).

The Hunter soil landscape is located on the floodplains and river terraces of the Hunter River and associated tributaries. The soil landscape is characterised by alluvial soils on levees and flats adjacent to the present river channel. Alluvial soils within the Hunter soil landscape are characterised by loose, brownish black to black silty to medium clay with a strong structure. Alluvial soils are rapidly draining and highly permeable. Minor stream bank erosion occurs along the present watercourse and gully erosion on adjacent terraces (Kovac and Lawrie, 1991). The archaeological test excavations confirmed that that multiple flood events have accumulated a large amount of alluvial deposits in the area.

The Hunter River alluvial flood plain has accumulated a substantial amount of soil which has the potential of containing subsurface archaeological material of various age. The very shallow, sometimes skeletal soils of the steep slopes and ridge in the western part of the Study Area have considerably less potential for containing any subsurface archaeological material.

The Bayswater soil landscape covers the undulating hills south-west of Muswellbrook. It is characterised by yellow solodic soils on slopes of 3-10% gradient. Alluvial soils are contained within drainage lines. Red, yellow and brown podzolic soils occur on slopes. Moderate sheet and gully erosions are common within the yellow solodic soils (Kovac and Lawrie, 1991). Archaeological test excavation within the Bayswater soil landscape was limited to hill crests where deposits were shallow, before reaching reddish brown medium clay. This soil has limited potential to hold subsurface archaeological deposits due to the shallow, in some areas skeletal nature of the soil profile and also due to high level of erosion, especially around the edges of the hill crest and upper slopes.

The Roxburgh soil landscape is associated with the undulating low hills to the west of the Bayswater soil landscape. Yellow podzolic soils occur on upper- to mid-slopes with red solodic soils on more rounded hills. Lithosols occur on crests and yellow soloths have been recorded in some gullies (Kovac and Lawrie, 1991).

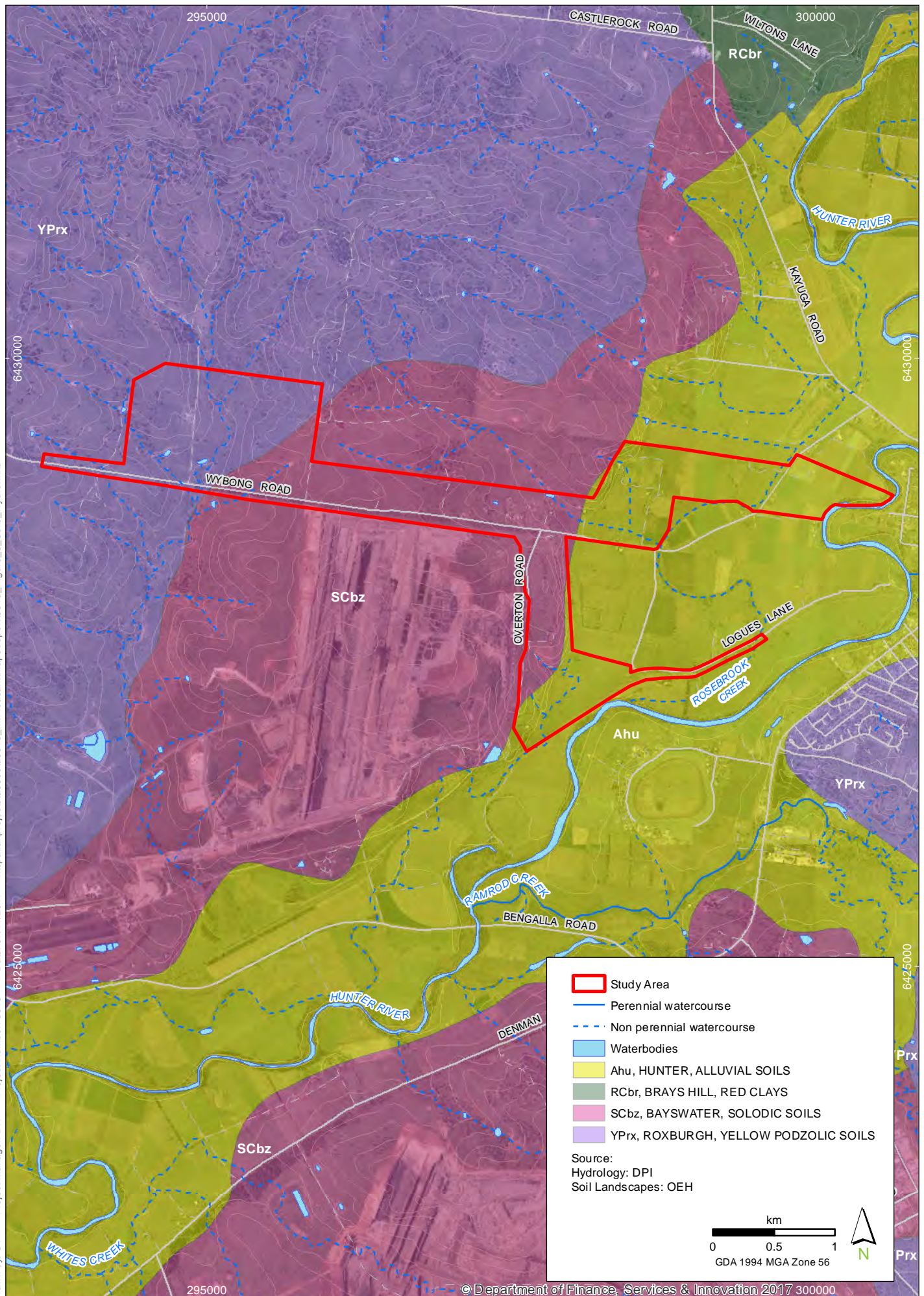
## 8.5 Hydrology

Water is considered one of the primary factors in the prediction of the location of Aboriginal sites in the landscape. In general terms, the proximity of permanent water increases the potential for both surface and subsurface Aboriginal objects in a given area. The Study Area is located adjacent to the Hunter River and drains towards the east into the river.

The Hunter River is a major waterway and it is also a very important cultural landscape for the local Aboriginal people. Rosebrook Creek is another waterway (3<sup>rd</sup> order stream) within the Study Area (Figure 6). There are historic stream and river channels located within the Study Area, with sometimes considerable depth of between 2 m to 3 m. These channels could have been the part of the Hunter River natural system before the impact of European settlement and land use patterns.

Further information is provided in Appendix 9.





## Hydrology and Soils

MPO Rail Modification

**FIGURE 6**

Imagery: (c) LPI 2013



## 8.6 Ecology

The original vegetation within the Study Area has been historically cleared and the land has been subject to intensive farming activities. Due to the historical land use impact it is very difficult to reconstruct the nature and quantity of natural resources that might have been present for Aboriginal people in the past. However, given the large amount of Aboriginal sites in the wider area and particularly within the Hunter Valley flood plains, the original vegetation might have provided ample resources for Aboriginal people in the past. Animals such as wallabies, kangaroos, possums, flying foxes as well as parrots, reptiles, freshwater fish and yabbies might have been abundant and would have made up part of the diet of the Wanaruah and Kamilaroi people. Plant resources such as bark extracted from various trees for making everyday items, canoes and shields must have also been abundant in the area. Utilising seeds and other parts of plants such as Kangaroo grass could have also been part of the resources collected in the area.

## 8.7 Past Land Use and Disturbances

The Study Area has largely been used for intensive agricultural activities including large scale cropping, and grazing activities. Anthropogenic modifications in the Study Area have included large scale vegetation clearance, construction of rural infrastructure such as vehicle access tracks, fences, stockyards, dwellings, dams and some modification to select drainage lines. The Study Area comprises a large, modified northern channel of the Hunter River which has been cut-off from the main arm sometime before the 1950's. Historical aerial images from 1958 demonstrate the channel being separated from the Hunter River. The surrounding flood plains have been the subject of multiple flood events and the archaeological test excavation confirmed the deposition of multiple layers of deposits within the area. The flood plains have been the subject of decades of intensive ploughing and consequent erosion and soil disturbance. The south-western portion of the Study Area comprising the north-south ridge and lower to upper steep slopes have been the subject of extreme erosion due to the clearing of the original vegetation and other natural processes. This area has been used for grazing and also includes a number of small lots that comprises still intact or dilapidated dwelling and farm buildings.

## 8.8 Summary

The above landscape context demonstrates that the Study Area contains (or would have contained at some point in the past) some resources capable of supporting a range of past Aboriginal land use. There are permanent and temporary water sources in the Study Area; and also some potential for outcrops of stone resources. There is also some potential for the preservation of surface and subsurface Aboriginal objects across the surface of the Study Area, particularly in association with flood plains of the Hunter River and its tributaries.

Archaeological visibility and exposure within the Study Area is limited due to the cover pasture. Visibility and exposure occur as a result of recent ploughing, grazing practices, associated with rural structures, erosion and surface wash around drainage lines and on slopes.

The entire Study Area has been subjected to a high level of disturbance since the colonisation of the area by European settlers. The signs of that disturbance are visible both on aerial imagery and also on the ground as confirmed by the field survey and archaeological test excavation. The post depositional events associated with disturbances caused by intensive agricultural activities are considered to have had significant impact on the spatial and vertical integrity of archaeological resources in the area.

## 9. Aboriginal Archaeological Context

### 9.1 Ethnography and History

The Study Area is located on the traditional country of the Wanaruah and Kamilaroi people. Tindale (1974) has identified the Wanaruah boundaries as being from south at Broke to north at Murrurundi, and running between Sandy Hollow and Gresford (west to east) (Attenbrow, 2010:34). Attenbrow (2010:35) points out that such boundary mapping, undertaken as it was in the nineteenth century is indicative at best; however there appears to be reasonably strong agreement between those who have mapped language boundaries that the area is Wanaruah country.

The records and histories of the Wanaruah and their Country at the time of contact with Europeans are subject to bias and are generally fragmented, providing nothing like a complete picture of the way Aboriginal people were living prior to European contact. Nevertheless, we know the Wanaruah regularly communicated, moved, traded and participated in ceremonies between their Country and neighbouring areas. It is most likely family groups or clans would 'interact along both physical and social boundaries' rather than be strictly confined to the 'tribal' borders that were to be artificially imposed by European anthropologists.

It is generally accepted that Aboriginal occupation of Australia dates back at least 40,000 years. Although archaeological evidence for the east coast regions of NSW show occupation from at least 20,000 years ago, the majority of sites in the Upper Hunter are believed to be mid-late Holocene (Davies, 1991). Confirmed dates for the Hunter Valley come from a number of excavated sites including Bobadeen Shelter, Sandy Hollow Shelter (C14 date of 1,300 Before Present [BP]) and Milbrodale Shelter (C14 date of 1,400 BP) (Griffiths, 1992).

The Lower Hunter was 'discovered' by John Singleton in 1770, and a mining settlement was established in Newcastle in 1801. The middle and upper reaches of the valley were not settled until explorations by John Howe in 1819 (Griffiths, 1992). Between the years of 1820-1825 the issuing of land grants contributed to an exponential increase in settlers and agricultural activity, which in turn had a dramatic effect on the landscape through clearing, grazing and cultivation (Environmental Resources Management Australia [ERM], 2009).

By the late 1830s the impact of European settlement meant that the traditional life of the Wanaruah had been irreversibly effected. Dispossessed, and with greatly reduced numbers due to conflict and European diseases, many Aboriginal people were removed from Country into Aboriginal missions and reserves, where the Protector of Aborigines (1881) and the Aborigines Protection Board (1883) established a system of protective segregation (Umwelt Environmental Consultants, 2009).

Despite this devastation, aspects of traditional knowledge and culture survive today, and the Wanaruah retain strong cultural attachments to land and Country.

### 9.2 Previous Archaeological Assessments at the Mount Pleasant Operation

A number of Aboriginal heritage investigations, surveys and assessments have been undertaken at the MPO and surrounds. A summary of these assessments is provided in Table 5.

**Table 5: Summary of Past Aboriginal Archaeological Assessments at the MPO**

Author	Date	Title	Assessment details
Rich	1995	<i>Mt Pleasant Coal Lease, New Muswellbrook, NSW: Archaeological survey for Aboriginal sites</i>	The entire MPO area was assessed for Aboriginal cultural heritage resulting in the identification of 327 Aboriginal archaeological sites that comprised of 1,408 stone artefacts. Rich concluded that compared to some other parts of Hunter lowlands, the MPO does not contain a substantial archaeological resource (Rich, 1995:6). This lack of substantial resource is reflected in the low artefact counts of the current assessment.
ERM Mitchell McCotter	1995	<i>Mount Pleasant Coal Lease, Muswellbrook NSW: An archaeological survey for Aboriginal sites</i>	ERM Mitchell McCotter were engaged to undertake an assessment over eight days to identify Aboriginal objects, sites and areas of potential archaeological subsurface deposit. This assessment was carried out prior to the final development of the MPO mine plan.  The artefact types identified comprised of backed blades, cores, flakes and a number of flakes with evidence of retouch and use wear. Larger artefacts such as axe heads were made of volcanic and quartzite material. Whilst smaller artefacts were made of silcrete, indurated mudstone, quartz, petrified wood and fine grained rock types.
ERM Mitchell McCotter	1997	<i>Mount Pleasant Mine EIS Fine Rejects Emplacement Area Archaeological Investigations</i>	As part of this Environmental Impact Statement, ERM Mitchell McCotter undertook some supplementary assessment to complement the 1995 assessment and survey areas that previously had not been considered as part of the mine plan. During this assessment a further 24 Aboriginal sites were identified that comprised of 79 artefacts. Site distribution was comparable to the pattern previously identified by Rich (1995).
HLA-Envirosciences	2007	<i>Aboriginal Heritage Assessment: Mount Pleasant Block 1</i>	HLA Envirosciences was commissioned to prepare an Aboriginal heritage assessment for Block 1 including the areas of Hilltop, Hillview and Boxfield properties. Overall, 73 Aboriginal sites were identified during the field assessment, including seven potential scarred trees and 66 open sites associated with artefacts. Most of the sites were recorded in a disturbed context. Seven of the sites have been assessed as having moderate to high scientific significance while the rest have been assessed as having low scientific significance.
McCardle Cultural Heritage Management	2007	<i>Mount Pleasant Indigenous Archaeological Assessment Stage 2</i>	McCardle Cultural Heritage Management was commissioned by Rio Tinto Coal Australia (RTCA) to carry out an archaeological assessment of Stage 2 of the MPO. 219 Aboriginal sites were recorded during the survey, including 117 isolated finds, 92 low density artefact scatters, eight (8) potential scarred trees and two (2) potential hearths. The findings were consistent with the regional patterns of Aboriginal sites.
Nur-Run-Gee Pty Ltd	2007	<i>Coal &amp; Allied Stage 4 Mount Pleasant Aboriginal Cultural and Heritage Report</i>	RTCA through Coal & Allied commissioned Nur-Run-Gee Pty Ltd to undertake a cultural heritage assessment. The assessment identified 276 Aboriginal sites, including 271 sites associated with one or more artefacts and five (5) potential scarred trees. Artefact distribution was similar to the results of previously conducted assessments and scarred trees have also been recorded in the area.
Scarp Archaeology	2009	<i>Technical Advisor Report: Cultural Heritage Investigations Stage 5 Mount Pleasant Mine, Hunter Valley</i>	RTCA and Coal & Allied commissioned Scarp Archaeology to carry-out an Aboriginal heritage assessment. A total of 136 Aboriginal sites were recorded including 113 isolated finds, 20 artefact scatters and three (3) possible scarred trees.

Author	Date	Title	Assessment details
Scarp Archaeology	2010a	<i>Technical Advisor Report: Cultural Heritage Investigations, Conveyor Easement Survey, Mount Pleasant Mine, Hunter Valley</i>	RTCA commissioned Scarp Archaeology to carry out a cultural heritage assessment of the proposed conveyor easement. A total of 64 Aboriginal archaeological sites were found including 55 isolated finds, six (6) artefact scatters and three (3) possible scarred trees. Results were consistent with previous surveys and artefact densities were similar to the intensity previously recorded sites.
Scarp Archaeology	2010b	<i>Technical Advisor Report: Cultural Heritage Investigations of the Proposed Broomfield Aboriginal Cultural Heritage Conservation Area for the Mount Pleasant Coal Mine, Hunter Valley, Muswellbrook LGA</i>	Coal & Allied commissioned Scarp Archaeology to carry out a cultural heritage investigation of the Broomfield Aboriginal Cultural Heritage Conservation Area. Altogether 2,370 flaked stone artefacts and also eight (8) scarred trees were found. The findings were consolidated into 104 Aboriginal sites. The assessment nominated some potential archaeological deposits (PADs).
Scarp Archaeology	2011	<i>Technical Advisor Preliminary Advice: Cultural Heritage Investigations- Mount Pleasant Mine, Hunter Valley Stage 6</i>	Scarp Archaeology was commissioned by RTCA and Coal & Allied to carry out a cultural heritage investigation. A total of 36 Aboriginal sites were recorded comprising isolated finds and potential scarred trees.
South East Archaeology	2016	<i>Report on Aboriginal Heritage Due Diligence Assessment of the proposed water supply pipeline at Mount Pleasant at the Mount Pleasant Operations, Hunter Valley New South Wales.</i>	South East Archaeology was engaged by MACH Energy to complete an Aboriginal Objects Due Diligence Assessment of an approved water pipeline and pump station. This assessment concluded that the above ground pipeline could be developed in the areas that were highlighted as having no Aboriginal cultural heritage constraints.
South East Archaeology	2017a	<i>Mount Pleasant Operation, Hunter Valley, New South Wales: Aboriginal Heritage reassessment of three previously reported scarred trees</i>	Approximately 57 scarred trees were identified within the MPO during previous archaeological investigations. Three of these scarred trees were reassessed by South East Archaeology, and this reassessment was conducted by Dr Mark Burns of Global Soil Systems and Michael Marsh of South East Archaeology. Representatives of the local Aboriginal community were also present for the inspection. This assessment concluded that all three scars were not of Aboriginal origin.
South East Archaeology	2017b	<i>Mount Pleasant Operation, Hunter Valley, New South Wales. Aboriginal Heritage reassessment of four previously reported scarred trees.</i>	Approximately 57 scarred trees were identified within the MPO during previous archaeological investigations. Four of these scarred trees were reassessed by South East Archaeology, and this reassessment was conducted by Dr Mark Burns of Global Soil Systems and Michael Marsh of South East Archaeology. Representatives of the local Aboriginal community were also present for the inspection. This assessment concluded that all four scars were not of Aboriginal origin.  As a result modified tree MTP-51 (AHIMS ID #37-2-2855), which is located within the current Study Areas AHIMS search's, status was changed to 'Not a Site' on the AHIMS register
South East Archaeology	2017c	<i>Mount Pleasant Operation, Hunter Valley, New South Wales: Aboriginal Heritage reassessment of 11 previously reported scarred trees</i>	Approximately 57 scarred trees were identified within the MPO during previous archaeological investigations. Eleven of these scarred trees were reassessed by South East Archaeology, and this reassessment was conducted by Dr Mark Burns of Global Soil Systems and Michael Marsh of South East Archaeology. Representatives of the local Aboriginal community were also present for the inspection. This assessment concluded that all eleven scars were not of Aboriginal origin.  As a result modified tree MTP-901 (AHIMS ID #37-2-3479), which is located within the current Study Areas AHIMS searches, status was changed to 'Not a Site' on the AHIMS register.



During these previous assessments approximately 1,382 Aboriginal heritage sites have been identified within the MPO Development Consent DA 92/97 area (Table 6). These site types include open artefact sites (including artefact scatters, isolated finds and/or PADs), scarred trees and stone sources. As a result of these previous assessments approximately 626 Aboriginal sites have been salvaged and require no further management. In relation to the remaining Aboriginal cultural heritage sites identified, approximately 175 are approved for salvage/disturbance under AHIP #C0002053, while the remaining 581 are either approved for disturbance under AHIP #C002092 or require *in situ* conservation (MACH Energy, 2017:13-14).

**Table 6: Summary of Known Aboriginal sites within MPO Development Consent DA 92/97**

Site Type	Approximate Number of Aboriginal Heritage Sites
Open Artefact Sites <sup>1</sup>	1,358
Scarred Trees	22
Stone Sources	2
<b>Total</b>	<b>1,382</b>

Source: MPO Aboriginal Heritage Site Database (originally provided by Rio Tinto in 2016).

<sup>1</sup> Including artefact scatters, isolated finds and/or PADs.

Note: Excludes those previously reported sites that have been verified as not being of Aboriginal origin

### 9.3 Archaeological Studies Undertaken at the Adjoining Bengalla Mine

A number of archaeological studies have been undertaken for the approved Bengalla Mine which is located generally to the south-west of the approved MPO. The Aboriginal objects and sites identified during the assessments at the Bengalla Mine outlined in Table 7 are similar to those identified across the Study Area.

**Table 7: Summary of the Aboriginal Archaeological Assessments undertaken for Bengalla Mine**

Author	Date	Title	Assessment details
Rich	1993	<i>Proposed Bengalla Coal Mine, Muswellbrook NSW: Summary of Aboriginal Heritage</i>	Rich was engaged by Costain Resources to undertake an archaeological assessment of the proposed Bengalla Mine mining lease area. This assessment hypothesised that three stone industries were present within the area (microblade, small flaked tool and a large tool industry) each of which occurred over different landforms. The find types were similar to those found within the larger Muswellbrook area.
White	1998	<i>Archaeological salvage of sites B10 &amp; B33 Bengalla Mine, Hunter Valley NSW</i>	This report details the results of an archaeological test excavation of an Aboriginal stone quarry site located within the Bengalla Mine mining lease area. In summary the B10 quarry site assemblages showed some large artefacts (more than 8 centimetres (cm) in length). Flaked and heat shattered debitage was also present at the site.  At B33 only 146 artefacts were relocated during the test excavation. Apart from one knapping floor being located within B33 the artefacts from the surface collection at this location indicate a casual discard of cores that were not flaked on site, and a range of tool types including broken pieces of edge-ground axe and backed artefacts. Which are similar to those artefact types identified within the MPO mining lease area.
Hansen Bailey	2007	<i>Bengalla Mine Aboriginal Cultural Heritage Management Plan</i>	This Aboriginal Cultural Heritage Management Plan was prepared in accordance with DA 211/93 M1 Schedule 3, Condition 38. It was prepared in consultation with the local Aboriginal community and similar to the MPO management plan outlines the process for managing future archaeological assessment and Aboriginal object management.

Author	Date	Title	Assessment details
AECOM	2013	<i>Bengalla Continuation of Mining Project Aboriginal Archaeology and Cultural Heritage Impact Assessment</i>	AECOM Australia Pty Ltd (AECOM) prepared an Aboriginal archaeological and cultural heritage impact assessment for the Bengalla Continuation of Mining Project. A total of 289 archaeological sites were identified including 196 AHIMS sites, 54 newly identified sites, alongside 39 sites identified during previous assessments that were not registered on AHIMS. The 196 AHIMS sites comprised 112 artefact scatters, 79 isolated finds, 4 scarred trees and 1 quarry. The identified quarry is a very rare site type within the area and has the potential to provide additional information on the stone procurement processes and artefact curation methods within the wider area. The newly identified sites comprised 29 artefact scatters and 25 isolated finds. 282 sites were assessed as low significance, 6 sites were assessed as moderate significance and one sites (AHIMS ID #37-2-0579) was assessed as high significance. The newly identified sites comprised 29 artefact scatters and 25 isolated finds.
AECOM	2015	<i>Aboriginal Archaeological Due Diligence Assessment for Bengalla Development Consent Modification</i>	AECOM was commissioned by Hansen, on behalf of Bengalla Mining Company, to undertake an Aboriginal archaeological due diligence assessment of land required to facilitate the construction of clean water diversion levees. Two (2) new Aboriginal sites were identified during the survey, comprising one (1) artefact scatter and one (1) isolated find. No additional heritage constraints were identified during the due diligence assessment.

## 9.4 Regional Archaeological Studies

Two major regional archaeological studies have been carried out for the Hunter Valley during the last 35 years. The National Parks and Wildlife Service of New South Wales (NPWS) commissioned a large scale report on the Aboriginal archaeological resources of the Hunter Valley in 1984. The report was prepared by Philip J. Hughes and consisted of five volumes in total. In addition, a baseline study of Aboriginal heritage resources of the Upper Hunter Valley was prepared by ERM in 2004. The details of both reports are summarized in Table 8 below.

**Table 8: Summary of Regional Archaeological Studies**

Author	Date	Title
Hughes	1984	<i>An overview of the archaeology of the Hunter Valley, its environmental setting and the impact of development</i>
ERM	2004	<i>Upper Hunter Valley Aboriginal Heritage Baseline Study</i>

Both of the above-described studies provide detailed information on the archaeological resources, environmental settings, land systems and the impact of historical land use in the Hunter Valley. Both investigations concluded that the highest density of Aboriginal sites are found in the Central Lowlands subregion in which the Study Area is located. The reports also state that this density is partly the result of the concentration of development and subsequent archaeological investigation in this region. The highest number of recorded sites in the area are open sites associated with surface stone artefacts. The second highest number of sites are axe grinding grooves, associated on most occasions, with sandstone surface geology on the periphery of the lowlands and in areas with surface intrusions of bedrock associated with water sources. Most of the sites currently registered on AHIMS were located during consultant archaeological studies and investigations, and are generally associated with major developments in the Hunter Valley.

## 10. Synthesis and Predictive Model

The predictive model has been developed based on the modelling formulated from the results of previous archaeological investigations, including the documented landform context, location and type of Aboriginal sites previously recorded within the local area. The following criteria have been used to determine the archaeological potential (both surface and subsurface) for the Study Area:

- Patterns of Aboriginal land use and occupation of the region, to identify those landscape areas where material was likely to have been deposited.
- Distribution of known sites within the Study Area and broader Muswellbrook area, to identify the landforms known to contain archaeological materials (and patterning of those materials).
- Geomorphic evolution of the Study Area, to identify those natural processes that may have affected the archaeological resource.
- Terrain integrity of the Study Area and the Modification area, considering the impact of post contact land use history on the potential of archaeological site survival.
- Likely detection of archaeological materials within the proposed works area, considering the nature of the resource (surface/subsurface materials) and ground surface visibility constraints.

Based on these criteria, the following predictive model has been formulated specific to the Study Area:

- Open lithic sites (artefact scatters and isolated artefacts) would be the most likely site type to occur within the Study Area, being most common on or in proximity to water-related landforms such as flood plains, alluvial terraces and gentle slopes <100 m from natural watercourses.
- Ceremonial sites are unlikely to occur due to recent land use history.
- Stone arrangements are very rare but do occur in the much broader region. There is limited chance of these occurring in the Study Area due to the level of surface disturbance from past land use.
- The geological characteristics of the Study Area are not consistent with those required for rock shelters. As such, closed sites (such as rock shelters with potential for art, artefacts and/or PADs) are unlikely to occur within the Study Area.
- Limited potential for bedrock exposure consequently reduces the potential for sites such as axe grinding grooves or quarries, although they may be present in association with the hill slopes and crest located above the flood plains of the Hunter River (mostly outside the Study Area).
- Scarred trees exhibit scars caused by the removal of bark or wood. There is almost nil possibility for scarred trees to occur within the Study Area due to the extensive clearing and agricultural activities that have occurred since European colonisation.
- No post-contact sites with shared significance by Aboriginal and European people are known to be located within the Study Area.
- Aboriginal places are places of cultural significance to Aboriginal people. No Aboriginal places have been declared within the subject area (October 2017) or listed on AHIMS (<http://www.environment.nsw.gov.au/conservation/AboriginalPlacesNSW.html>).
- Burials are rare but do occur in the wider region and are associated with sandy soils and rockshelters. Burials are unlikely to occur in the Study Area due to the lack of suitable contexts, absence of rockshelters, the high level of erosion present and historic surface disturbance.

Artefact scatters and isolated artefacts in open site context would be the most likely Aboriginal archaeological sites to occur within the Study Area. It seems that isolated artefacts occur in almost every part of the landscape and the identification of those sites will be dependent on ground surface visibility and exposure.

The spatial extent and density of the recorded artefact scatters suggest that the potential of finding high density, extensive sites are very low and the most likely context will be low density, background scatters situated close to permanent water sources and located in some exposures or eroded, truncated soil profiles. There is a high possibility to locate those type of sites on exposed, eroded landform units associated with the Hunter River, Rosebrook Creek and the tributaries of those waterways. However, in line with previous survey results, the large amount of alluvial deposits present by the Hunter River might make the identification of those sites difficult. There is a low possibility for outcropping bedrock and consequently raw material resources in the western part of the Study Area on the crest and steep slopes of the hills rising above the floodplains of the Hunter River. There is a low to almost nil possibility of finding scarred trees in the Study Area due to the excessive clearing of native vegetation.

## 11. Aboriginal Heritage Survey Methodology

### 11.1 Survey Sampling Strategy and Proposed Methodology

A Proposed Methodology for the assessment was provided to the RAPs on 8 September 2017. A copy of the Proposed Methodology is provided in Appendix 3. In addition, Niche developed a survey sampling strategy for the ACHA that aimed to provide 100% coverage of the survey area.

The survey methodology was prepared in consideration of (but not limited to):

- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).
- *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017).

The *Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b) requires a stratified and weighted sample of the landscapes to be assessed based on their occurrence in an impact or disturbance footprint, and the anticipated Aboriginal cultural heritage potential within those landforms. As the survey resulted in 100% coverage of the survey area, there was no need to develop a sample strategy for the landform context.

As described in Section 2, although the ACHA for the Modification considered the entire Study Area, the focus of the surveys and impact assessment was on those portions of the Modification that are located outside of the extent of the approved AHIP #C0002053 boundary (i.e. those areas subject to previous assessment and/or salvage and management activities). Further, it is noted that the field surveys covered a much larger area than the current Study Area. The survey area is presented on Figure 3.

### 11.2 Survey Methods

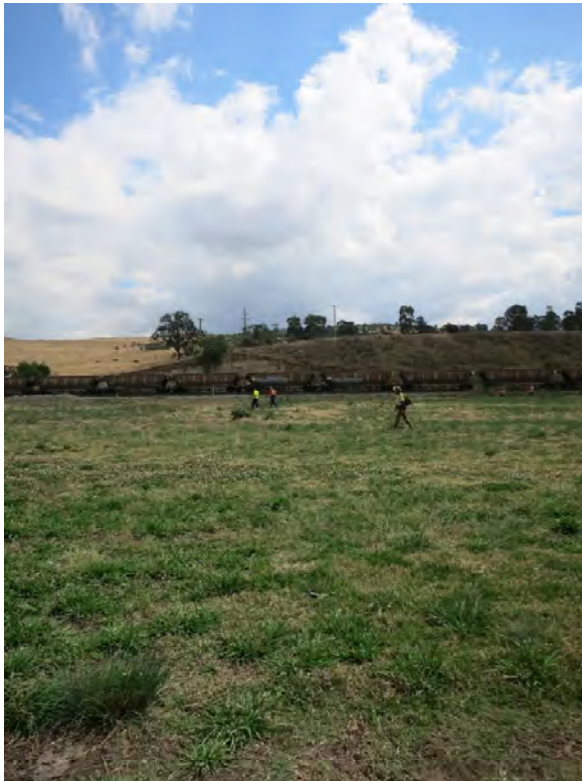
The Aboriginal heritage survey was conducted on 3 and 4 October 2017. All survey transects were conducted on foot. Survey participants were generally spaced between 5 m and 10 m apart and features or exposures of interest were opportunistically investigated in more detail. Spacing between field survey participants was adjusted according to the surface visibility and exposure frequency (Plate 1).

Survey transects were recorded on handheld non-differential Global Positioning System (GPS) units with an average accuracy of  $\pm 5$  m. Environmental variables such as overall landform, slope, distance from water, visibility, soils and the presence of stone outcrops were recorded, and representative photographs were taken.

Located archaeological sites and Aboriginal objects were recorded in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b) using standard archaeological practice and according to requirements of AHIMS recording protocol including:

- Marking the location of every identified archaeological object and/or feature.
- Photo recording of the overall site including scale and markers for objects and/or features.
- Non-differential GPS recording of centre point and extent of every archaeological site.
- Description of features, objects, general environment, landscape unit, soils, disturbance levels and initial significance.
- Photo records of representative number of archaeological objects and/or features.





**Plate 1: Example photograph of transect spacing during field survey**

A comments and suggestions log was also maintained during the survey allowing for the representatives of the RAPs present to provide any comments regarding cultural values of the Study Area or management recommendations to be documented.

## 12. Aboriginal Heritage Survey Results

### 12.1 Overview

The entire survey area and all of its landforms and soil landscapes have been subject to systematic survey and assessment during the field campaign (Figure 7). The survey team conducted all transects on foot with the average distance of 5 m to 10 m between participants. Distance was adjusted (i.e. to less than 5 m apart) on areas with higher ground surface visibility. As the exact footprint of the proposed works was not known during the survey stage an area larger than that required was inspected. The field survey covered 100% of the Modification area (with the exception of those areas within the extent of the approved AHIP #C0002053) (Figure 7).

Visibility was poor across the entire survey area, due to vegetation cover (between 0-5%). Visibility was restricted by high grass cover with the exception of exposures from vehicles and animal tracks, earthworks, agricultural activities and surface wash and erosion in drainage lines. Effective survey coverage was less than 5% due to the thick grass cover on the open areas and sometimes thick undergrowth in the re-vegetated woodland. Notwithstanding, the survey provided an opportunity to inspect the entire survey area, and is considered sufficient for the purposes of this assessment. A summary of survey and landform coverage is provided in Table 9.

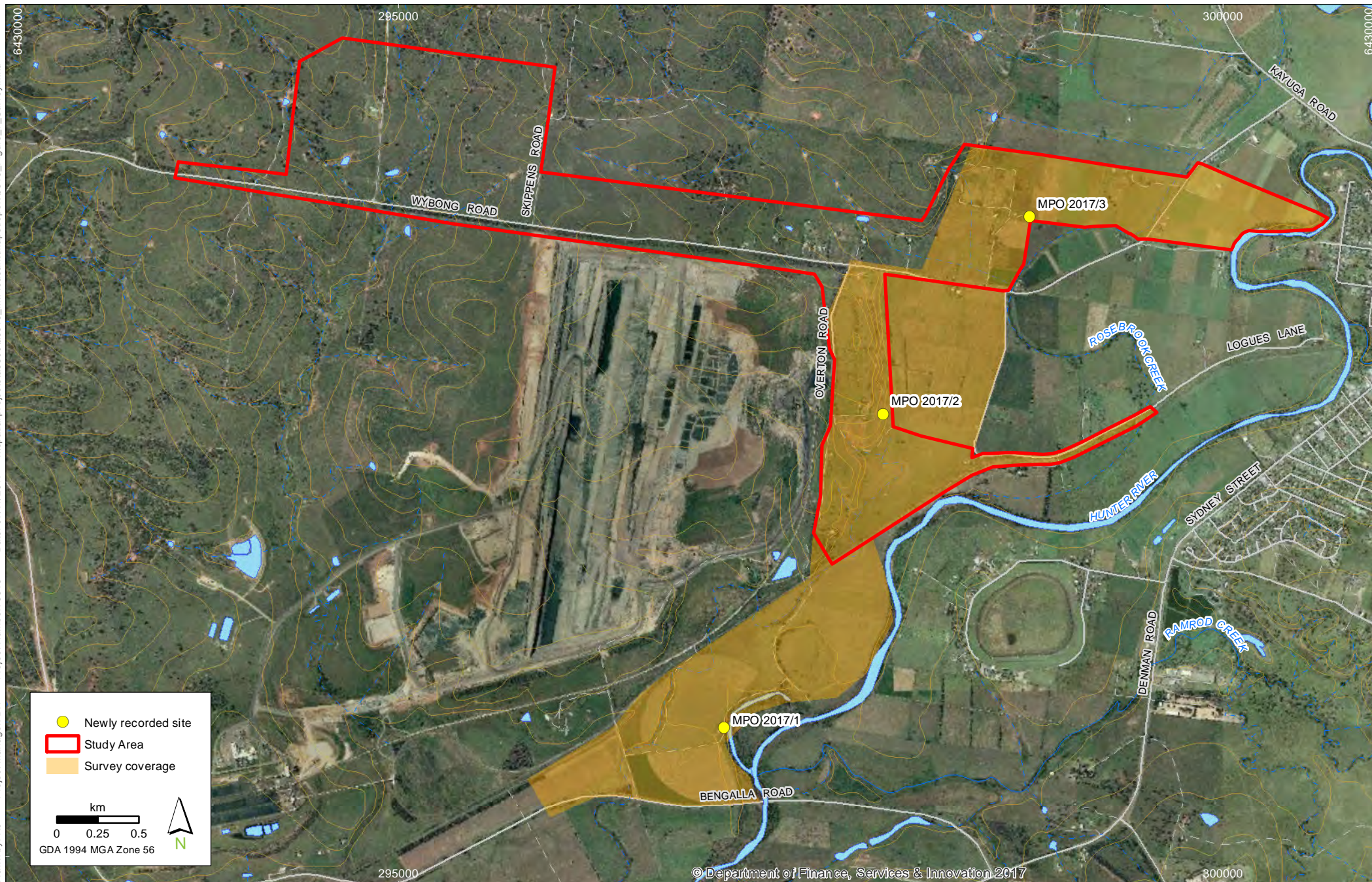
**Table 9: Summary of Survey Coverage and Landform Summary**

Landform / Survey Unit	Survey and Landform Unit Area (m <sup>2</sup> )	Visibility (%)	Exposure (%)	Effective Coverage (m <sup>2</sup> )	Effective Coverage (%)	Number of Sites	Number of Features
Hill	304,000	5	5	760	0.25	0	0
Slope	320,000	5	5	800	0.25	1	1
Flood Plain	3,673,000	5	5	9,182.5	0.25	2	2

m<sup>2</sup> = square metres

The survey confirmed the degree of past land use and disturbance—vegetation clearing, agricultural activities, grazing, construction of rural infrastructure and consequent heavy erosion that frequently resulted in complete loss of top soil — identified from the desktop assessment. The survey confirmed the general pattern of Aboriginal objects in the wider area and also confirmed the predictive model developed for the Study Area. Isolated stone artefacts were found on the flood plain on a farm access road (MPO 2017/1; AHIMS ID #37-2-0027), in an area that had recently been ploughed (MPO 2017/3; AHIMS ID #33-2-0025) and on the slopes of the former bank of the Hunter River (MPO 2017/2; AHIMS ID #33-2-0026) (Figure 7).





## Archaeological Field Survey Results

MPO Rail Modification

**FIGURE 7**

Imagery: (c) LPI 2013



## 12.2 Survey Results

Altogether three Aboriginal heritage sites were identified during the field survey. Details of the recorded objects are provided in Table 10 below.

**Table 10: Details of Identified Aboriginal Objects During Field Surveys**

AHIMS ID	Site ID	Coordinates (MGA/GDA)	Description	Scientific Significance	Comment
33-3-0027	MPO 2017/1	E 296973 N 6425781	Isolated find located on an unformed track situated on the west bank of the Hunter River.	Low	Site does not extend beyond the isolated find.
33-2-0026	MPO 2017/2	E 297938 N 6427683	Isolated find located on the lower/steep slope of a south-north high ridge above the flood plains of the Hunter River.	Low	Site does not extend beyond the isolated find.
33-2-0025	MPO 2017/3	E 298826 N 6428879	An isolated find on the floodplains of the Hunter River and Rosebrook Creek.	Low	Site does not extend beyond the isolated find.

## 12.3 Description of Individual Sites

During the survey campaign, three (3) new Aboriginal heritage sites were identified and recorded. The individual sites are described in details below.

### MPO 2017/1 (AHIMS ID #33-2-0027)

This is an isolated find comprising one stone artefact located on an unformed vehicle track, on the western bank of the Hunter River (Plates 2 and 3). The artefact is a silcrete median flake. The scientific significance of MPO 2017/1 was assessed as low.



**Plate 2: Artefact of MPO 2017/1**



**Plate 3: Location of site MPO 2017/1 photo facing north**

#### **MPO 2017/2 (AHIMS ID #33-2-0026)**

This is an isolated find comprising one stone artefact located on the lower slopes of a steep hill in the western part of the Study Area (Plates 4 and 5). The artefact is a mudstone complete tool with scalar, steep retouch along one margin. The scientific significance of MPO 2017/2 was assessed as low.



**Plate 4: Artefact of MPO 2017/2**



**Plate 5: Location of site MPO 2017/2 photo facing east**

#### **MPO 2017/3 (AHIMS ID #33-2-0025)**

This is an isolated find comprising one stone artefact located on along a graded area, approximately 250 m north-west of Rosebrook Creek (Plates 6 and 7). The graded area was existing at the time of the survey, and was undertaken as part of existing agricultural practices. The artefact is a silcrete median flake. The scientific significance of MPO 2017/3 was assessed as low.



**Plate 6: Artefact of MPO 2017/3**



**Plate 7: Location of MPO 2017/3 photo facing south**



## 13. Archaeological Test Excavation Methodology

As described in Section 6.2.3, a Test Excavation Proposed Methodology and Sampling Strategy was provided at all RAPs for their review and comment on 19 September 2017, with further additional details and mapping provided on 13 October 2017. Notification of the proposed archaeological test excavation was provided to the OEH on 5 October 2017, in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).

The purpose of this section is to describe the methodology undertaken to conduct archaeological test excavation for the Modification. The purpose of the test excavation was to determine whether further Aboriginal objects and archaeological potential exist within the Study Area. Test excavations were conducted in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).

### 13.1 Test Excavation Methodology

The test excavation was carried out over five days from 23 October to 27 October 2017. The test excavation focused on landform units of potential sensitivity that may be subject to impacts associated with the Modification, and included testing of landforms of both higher and lower archaeological potential. The flexibility to place excavation pits of the transect grid was reserved, and if appropriate pits could have been placed in areas of interest to the Aboriginal community.

The test pits were excavated according to Requirement 16 and Requirement 17 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b) as follows:

- The test excavation pits were placed in systematic manner appropriate to the scale and locations being investigated, with each investigation point being separated by at least 5 m. Original layout of test excavation pits were on a 20 m by 20 m grid system.
- Test excavation pits measure 50 cm by 50 cm.
- Test excavation pits extended into 1 m by 1 m units in the event of deposits of deeper than 60 cm found or any archaeological features were located.
- The test excavation pits were hand excavated using hand tools only.
- The test excavation program utilised 5 cm spits for the first test pit for each location, and 10 cm spits for each test pit thereafter (or appropriate sediment profile/stratigraphic excavation, whichever is smaller).
- Spits re-adjusted to 5 cm should cultural layers, features or high density of artefacts located. Should well defined cultural layers be found, the program allowed for spits to follow the actual horizons of those layers until all cultural materials are excavated.
- All excavated soil dry sieved through 5 millimetre aperture wire mesh. Dry sieving was conducted next to each pit, on a tarpaulin and the pits were backfilled upon completion of the excavation of each sample location.
- Any artefacts and samples were provided with unique identification numbers, tagged, bagged and prepared for further analysis on site/at excavation base.
- Excavation units were recorded using standard archaeological practises including written information of the test unit, and photographic and scale-drawn records of the stratigraphy/soil profile, features and informative Aboriginal objects were made for each single excavation point.

- Excavation units were excavated to:
  - at least the base of the identified Aboriginal object-bearing units, and were continued to confirm that the soils below are culturally sterile;
  - to the base of artefact bearing layers;
  - to refusal at rock; or
  - to groundwater, where present.

### 13.2 Artefact Analysis and Cataloguing

A full record and catalogue of the artefacts was prepared in accordance with Requirement 19 and Requirement 20 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b). A full artefact catalogue of the items identified during the test excavation program is provided in Appendix 5.

The long term disposition of artefacts, in accordance with *the Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017) will require placing artefacts at the temporary keeping place at the Broomfield Homestead Complex (1100 Wybong Road, Mount Pleasant). Artefact analysis and the preparation of a catalogue has been completed by Simon Greenwood and Balazs Hansel (Niche).

### 13.3 Recording and Photography

The location of each excavation pit has been recorded using hand-held, non-differential GPS. Excavation results of each test pit were recorded on a spit sheets. Archaeological features were sketched and photographed. Upon completion the stratigraphy of each pit was scale drawn and photographed.

### 13.4 Sensitive Cultural Information – Management Protocol

During the consultation process MACH Energy and Niche provided the opportunity for the RAPs to provide cultural information, including a statement of the value of identified sites and other matters. The input points were listed within the relevant excavation methodologies (Appendix 3).

RAPs were made aware that MACH Energy or Niche staff would seek cultural information and supporting evidence in regard to matters of cultural value.

In the event that a stakeholder had sensitive or restricted public access information it was proposed that MACH Energy and Niche would manage this information (if provided by the Aboriginal community) in accordance with a sensitive cultural information management protocol. The protocol would include making note of and managing the material in accordance with the following key limitations as advised by Aboriginal people at the time of the information being provided:

- any restrictions on access to the material;
- any restrictions on communication of the material (confidentiality);
- any restrictions on the location/storage of the material;
- any cultural recommendations on handling the material;
- any names and contact details of persons authorised within the relevant Aboriginal stakeholder to make decisions concerning the Aboriginal material and the degree of authorisation;
- any details of any consent given in accordance with customary law; and
- any access and use by the registered Aboriginal stakeholders of the cultural information in the material.

There was no sensitive material provided by the RAPs to MACH Energy or Niche at the time of preparation of this report.

## 14. Archaeological Test Excavation Results

As described in Section 13.1, the test excavation was carried from 23 October to 27 October 2017. The participants of this assessment are outlined in Section 6.2.5. Four areas were targeted during the test excavation and are presented on Figures 8, 8-1, 8-2, 8-3 and 8-4. Two areas concentrated on the ridgelines and two areas were located on the alluvial flood plains of the Hunter River and its tributaries. A detailed summary is provided below.

### 14.1 Test Area 1

Area 1 is located in the south-western part of the Study Area on the top of a north-south ridge (Figures 8 and 8-1). In Area 1, fourteen (14) test pits were excavated in 5 cm spits for the first test pit and 10 cm spits for subsequent test pits. The excavated area covered altogether approximately 3.5 m<sup>2</sup>. Three transects were laid out within the test area and a total of 14 test pits were excavated as follows:

- five test pits along Transect 1;
- five test pits along Transect 2; and
- four test pits along Transect 3.

The typical soil profile within Area 1 was observed as follows:

- A1 horizon – compact clayey silt mix – 0-10 cm (Munsell: 2.5YR 4/6 pH: 5.5).
- A2 horizon – moderately compact to compact reddish brown silty clay – 10-30 cm (large degree of variation) (Munsell: 2.5YR 5/4 pH: 5.5).
- B horizon – moderately compact to compact dark reddish brown sterile clay – 30-40 cm (large degree of variation) (Munsell: 2.5YR 3/4 pH: 6.5).

Test pit 14 (in Transect 3) was not excavated due to the close proximity to an overhead power line. No artefacts were recovered at Area 1.

### 14.2 Test Area 2

Area 2 is located on the western bank of the Hunter River (Figures 8 and 8-2). Area 2 contained two transects containing a total of five test pits. Initially ten test pits were marked out, but due to the deep, alluvial deposit encountered the excavation team (including representatives of the RAPs) decided to expand two test pits into 1 m by 1 m excavation units in order to be able to fully investigate the depth of the deposit. The 1 m<sup>2</sup> test pits were extended in quadrants of 50 square centimetres (cm<sup>2</sup>) test pits and excavated to a depth of 1 m and 1.2 m respectively. Altogether approximately 3.25 m<sup>2</sup> were excavated. The layout of transects was as follows:

- three test pits along Transect 1; and
- two test pits along Transect 2.

The typical soil profile within Area 2 was observed as follows:

- A1 horizon – moderately soft dark reddish brown loam with fine grained silt present – 0-10 cm (Munsell: 5YR 2.5/2 pH: 5.5).
- A2 horizon – moderately soft to firm dark reddish brown silty loam – 10-80 cm (large degree of variation) (Munsell: 2.5YR 5/4 pH: 5.5).
- B horizon – firm to compact very dusky red clay – 100-120 cm (large degree of variation) (Munsell: 2.5YR 3/4 pH: 6.5).





## Areas of Testing

MPO Rail Modification

**FIGURE 8**

Imagery: (c) LPI 2013





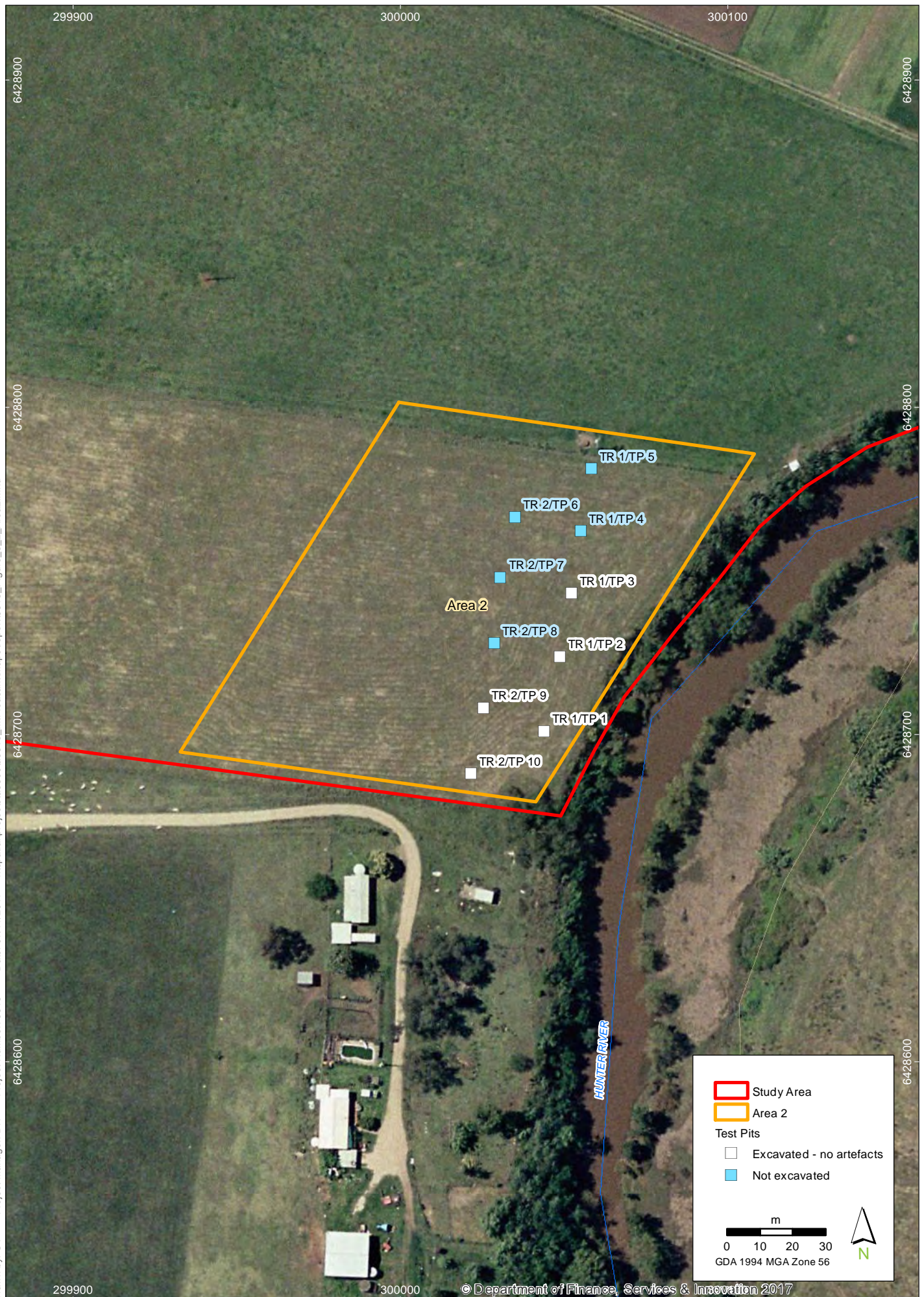
Test Area 1

MPO Rail Modification

**FIGURE 8-1**

Imagery: (c) LPI 2013





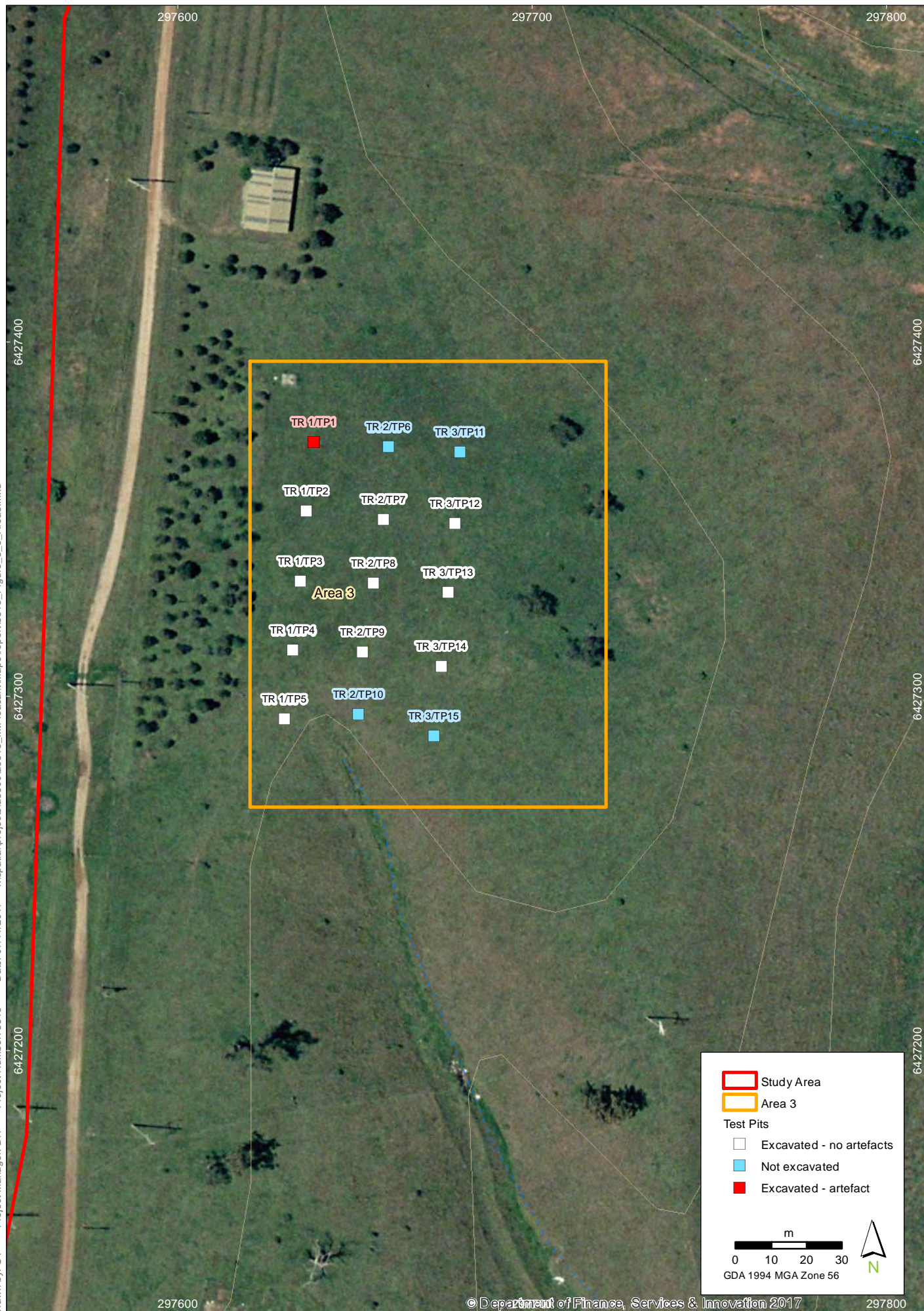
## Test Area 2

MPO Rail Modification

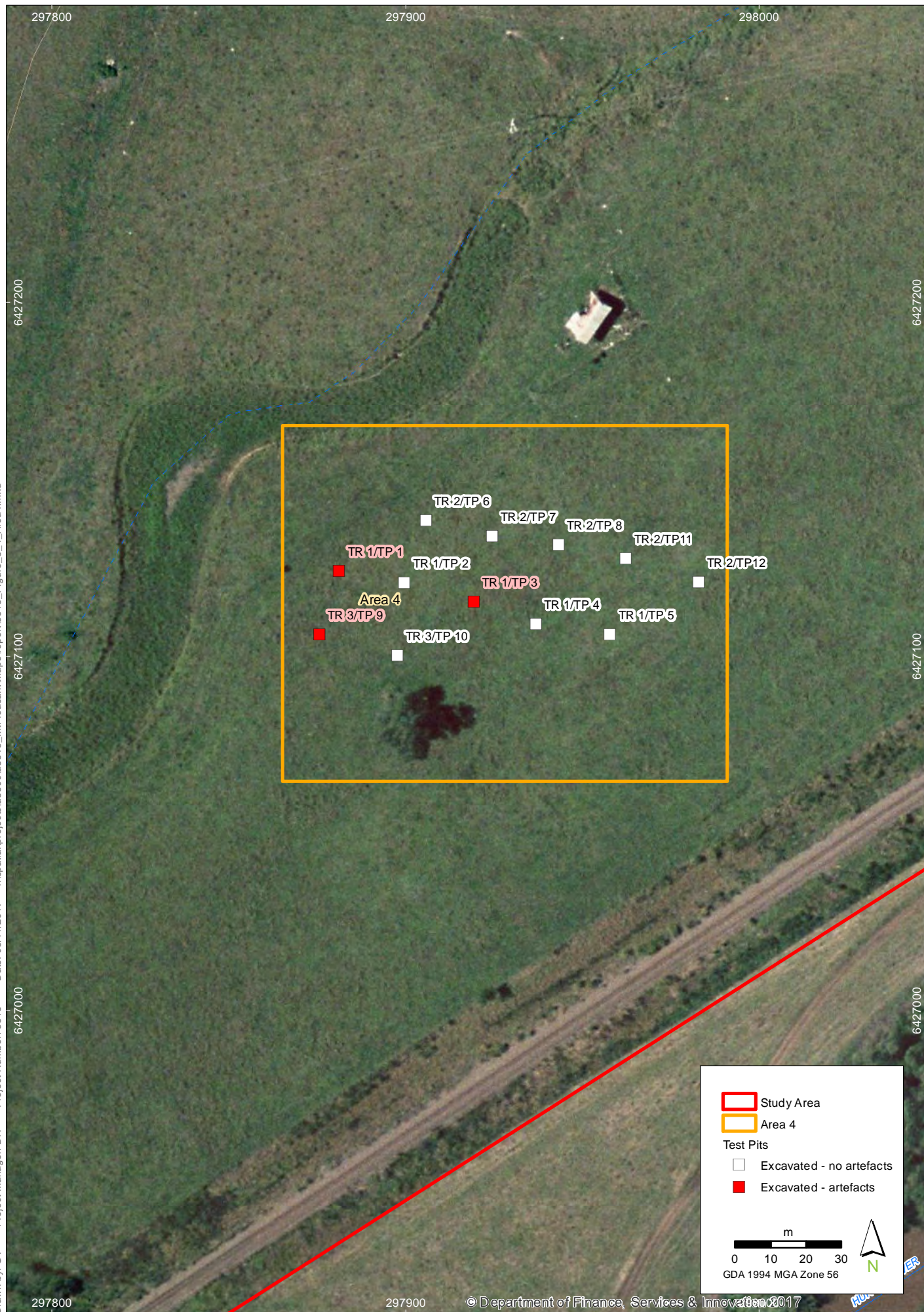
## FIGURE 8-2

Imagery: (c) LPI 2013









Test Area 4

MPO Rail Modification

**FIGURE 8-4**

Imagery: (c) LPI 2013



Test pits 4 to 8 were not excavated, following a decision made by the excavation team to expand and deepen test pits 1 and 10. No artefacts were recovered at Area 2.

### 14.3 Test Area 3

Area 3 is located on the top of a low spur, in the western part of the Study Area, approximately 800 m south of Area 1 (Figures 8 and 8-3). Area 3 contained three transects comprising a total of eleven (11) completed pits. The test pits were excavated in 5 cm spits for the first test pit and 10 cm spits for subsequent pits. Altogether approximately 2.75 m<sup>2</sup> was excavated at Area 3 as follows:

- five test pits along Transect 1;
- three test pits along Transect 2; and
- three test pits along Transect 3.

The typical soil profile within Area 3 was observed as follows:

- A1 horizon – loose dark brown loam/silty loam – 0-10 cm (Munsell: 7.5YR 3/4 pH: 5.5).
- A2 horizon – moderately compact to compact greyish brown silty clay – 10-20 cm (Munsell: 5YR 3/4 pH:6).
- B horizon – moderately compact to compact clay – 25-30 cm (Munsell: 5YR 4/6 pH: 7).

Altogether one artefact was found at Area 3, located in test pit 1 (Figure 8-3).

The remaining four test pits were not excavated within this test area following consultation with the attending representatives of the RAPs. As these pits were located on the higher slope and affected by extensive erosion the low potential for subsurface archaeology was confirmed, and the team revised the strategy to focus excavation efforts on the lower flood plain areas.

### 14.4 Test Area 4

Area 4 is located on the alluvial terrace of the Hunter River, approximately 200 m south-east of Area 3 (Figures 8 and 8-4). Altogether twelve (12) test pits were excavated. Eleven (11) test pits were excavated in 10 cm spits and one was extended to 1 m<sup>2</sup> in quadrants and excavated first in 5 cm spits for the first quadrant and then 10 cm for subsequent quadrants. Transects were laid out as follows:

- five test pits along Transect 1;
- five test pits along Transect 2; and
- two test pits along Transect 3.

The typical soil profile within Area 4 was observed as follows:

- A1 horizon – friable dark brown loam/silty loam – 0-10 cm (Munsell: 7.5YR 3/2 pH: 6).
- A2 horizon – moderately compact to compact very dark grey silty clay – 10-20 cm (large degree of variation) (Munsell: 7.5YR 3/1 pH: 7).
- B horizon – moderately compact to compact clay – 20-30 cm (large degree of variation) (Munsell: 7.5YR 2.5/1 pH: 7.5).

Altogether 17 artefacts were recovered in three test excavation units comprising six (6) 50 cm by 50 cm test pits. These artefacts were identified in test pits 1, 3 and 9 (Figure 8-4).

## 14.5 Test Excavation Results Summary

Altogether 18 Aboriginal artefacts were recovered during the excavation (Appendix 5) including one artefact from Test Area 3 and 17 artefacts from Test Area 4. These artefact sites were then registered on AHIMS as two separate sites MPO 2017/4 (AHIMS ID #33-2-0028) (for the single artefact in Area 3) and MPO 2017/5 (AHIMS ID #33-2-0029) (for the cluster of artefacts in Area 4) (Appendix 7). The analysis and discussion of these results is presented within Section 15 of this report.

A sample of photographs and section drawings have been included within this report, as there were no changes across the site in terms of soil profiles and disturbance.

Across all four areas there is evidence of modern disturbance through pasture improvement activities. There was significant disturbance/mixing observed in the A1 profile, likely the result of erosion activity over the past 20 years. Evidence of disturbance/mixing of the A2 soil profile was also observed, albeit to a lesser extent than that identified in the A1. All test pits showed low levels of 'natural' disturbance in the form of grass and tree roots.

As described in Appendix 9, a geomorphologist attended two days of the test excavation program. This included assessment of the soil profiles and the provision of advice regarding the geomorphology present in the test excavation areas. Further details regarding the outcome of this assessment are provided in Appendix 9.

## 14.6 Artefact Distribution

A total of 18 artefacts were recovered during the test pit program (Appendix 5). Artefacts were recovered only from Areas 3 and 4. Artefacts were recovered from four test pits total, with the majority of artefacts being located in Area 4 TR 1 TP 1 (61% of all artefacts) and Area 4 TR 3 TP9 (28% of all artefacts). The highest number of artefacts in a single test pit was 11 artefacts. Table 11 provides a summary of the number of artefacts recovered at each location.

**Table 11: Artefact Count for each Test Pit**

Test Pit / Site Name	Artefact Count
Area 3 TR 1 TP1	1
Area 4 TR 1 TP 1 QA	5
Area 4 TR 1 TP 1 QB	3
Area 4 TR 1 TP 1 QC	2
Area 4 TR 1 TP 1 QD	1
Area 4 TR 1 TP 3	1
Area 4 TR3 TP 9	5
<b>Total:</b>	<b>18</b>

In all but one case the artefacts were found within Spit 1 and Spit 2 (the top 20 cm) of the respective test pits. Only in Area 4 TR 3 TP 9 were artefacts uncovered in Spit 3 and even then there was only a single artefact found below 20 cm depth.

Despite the extensive nature of the testing program only a small number of artefacts were identified. Based on the small sample of recovered artefacts, it is difficult to make robust conclusions on what the subsurface distribution of artefacts may mean in terms of past Aboriginal use of the landscape. Generally the area has been heavily disturbed by pasture improvement and tilling, however while there is obvious and sustained ground disturbance (both natural and cultural) in the Study Area, the clustering of artefacts in Area 4 is most likely representative of the original location of deposition in the landscape. Hence the artefact clustering present within the Study Area is interpreted to be in the general area they were discarded by Aboriginal people in the past.

## 14.7 Artefact Assemblage Description

The majority of artefacts recovered were silcrete ( $n = 11$ ), with the remainder being classified as mudstone ( $n = 4$ ), quartz ( $n = 1$ ), slate ( $n = 1$ ) and quartzite ( $n = 1$ ) (Table 12). Artefact assemblages are usually dominated by silcrete, mudstone, chert and quartz in the region.

**Table 12: Raw Material Frequency**

Raw Material	Frequency	% of Total
Silcrete	11	62%
Mudstone	4	23%
Quartz	1	5%
Slate	1	5%
Quartzite	1	5%
<i>Total</i>	<i>18</i>	<i>100%</i>

Most of the recovered artefacts have been broken either during their lifetime or by post-depositional processes. Due to the low number of complete flakes the average size of artefacts would not be concluded and would not yield considerable information on the assemblage.

Artefact classification was conducted using the categories described by the AHIMS site card system, and attributes considered useful for comparison with other Upper Hunter assemblages, for the entire artefact assemblage. Table 13 summarises the assemblage by artefact class.

**Table 13: Artefact Classification**

Row Labels	Frequency	% of Total
Medial flake	6	33%
Complete flake	3	16%
Distal flake	3	16%
Proximal flake	4	23%
Complete tool	1	6%
Broken tool	1	6%
<i>Total</i>	<i>18</i>	<i>100%</i>

## 15. Analysis and Discussion of Survey and Excavation Results

As a result of the field survey, a total of three Aboriginal heritage sites were identified. Of these sites, two are located within the Study Area however only one is located within the Modification area (Figure 9).

As a result of the test excavation program, a total of two additional Aboriginal heritage sites were identified. Both of these sites are located within the Modification area (Figure 9).

As a result of the nature of the objects identified (i.e. the absence of any datable material), there were no dating samples collected during the test pit excavation, so it is not possible to date the artefact assemblage by association with other features or the sediments within which they were located. There were no time period-diagnostic artefacts (such as backed artefacts) but the shallow depth and generally small size of most artefacts suggests that the assemblage dates to the Holocene period.

Area 1 and Area 2 did not yield any artefacts and no cultural layers or stratified deposits were found. The top soil ('A' horizon) at Area 1 was very shallow, in some areas skeletal, and has been the subject of high levels of disturbance. Area 2 has yielded quite different results displaying deep deposits of various grain size alluvial deposits with almost no inclusion other than grass roots and various percentage of silt.

There was one artefact found in TP 1 at Area 3 within colluvial deposits, comprising of a high number of medium to large size of pebbles and silty clay deposits. The soils in Area 3 are mostly heavily eroded colluvial deposits with high silt and cobble content. Erosion is particularly extensive around the edges of the spur and generally very high all across the entire area.

Area 4 has yielded the most artefacts (17) found in three separate test pits. Most of the artefacts (80%) are broken flakes or tools which could be associated with the intensive ploughing in the area which has obvious signs on the ground and also has been confirmed by historical aerial imagery. The spatial distribution of artefacts show density increasing closer to the old channel of the Hunter River. Vertical distribution of artefacts show a generally even density from Spit 1 down to Spit 3. High levels of disturbance caused by agricultural activities and bioturbation have been recorded in every test pit.

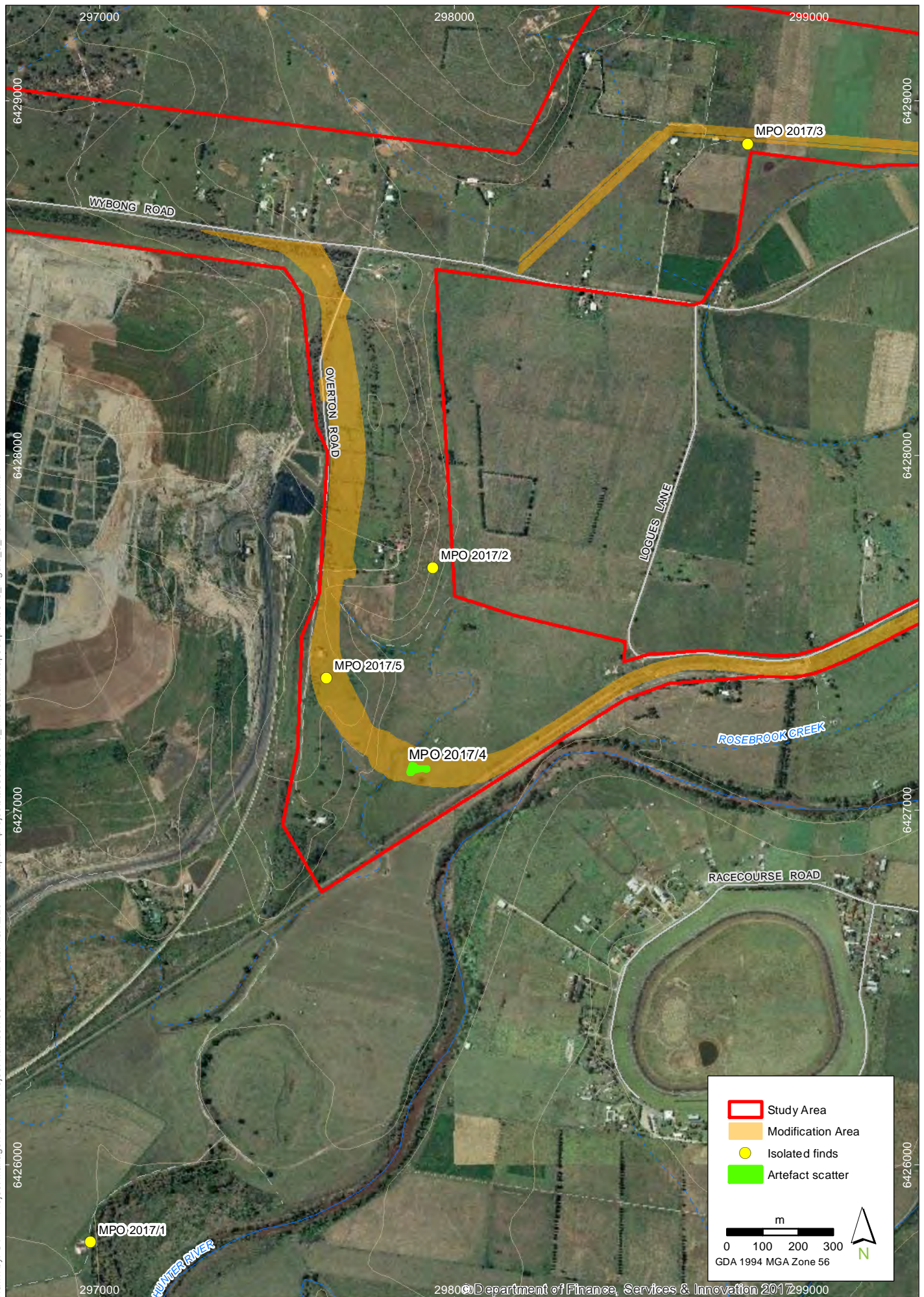
The spatial and vertical distribution of the artefacts has been the subject of extensive post-depositional disturbance caused by intensive historical land use, particularly agricultural activities such as ploughing and construction of rural infrastructure.

The Study Area is located within close proximity of waterways and situated on flood plains with various levels of alluvial deposits. While the close proximity of permanent water would suggest higher intensity and frequent occupation of the area, the frequent and various extent of flood events might have altered the landscape and either removed archaeological deposits from the landscape or covered those artefacts with varying thicknesses of alluvial deposits. Both of these processes might have had significant impact on the spatial and vertical integrity of archaeological resources in the area.

The artefacts are not interpreted to be *in situ*, and stratified archaeological deposits are not present. However the artefacts are likely to be in the general vicinity of where these were discarded and therefore may be able to provide further information on past Aboriginal land use by considering relative densities of raw materials, artefact types and artefacts in general.



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## Location of Identified Aboriginal Cultural Heritage Sites

MPO Rail Modification

**FIGURE 9**

Imagery: (c) LPI 2013

Overall, Niche considers that the archaeological test excavation program has obtained sufficient information regarding the archaeological subsurface potential of the Study Area, to assist in the understanding of the nature and extent of archaeological resources. The program has resulted in the sampling of each landform present, and has also allowed for testing within the area of potential impacts associated with the Modification (i.e. the Modification area).



## 16. Cultural Heritage Values and Significance Assessment

### 16.1 Assessment Framework

The Burra Charter (Australia ICOMOS, 2013) defines the basic principles and procedures to be observed in the conservation of important places. It provides the primary framework within which decisions about the management of heritage sites in Australia should be made. The Burra Charter defines cultural significance as being derived from the following criteria presented in Table 14.

**Table 14: Definition of Heritage Values from the Burra Charter (Source: Australia ICOMOS, 2013)**

Cultural Significance Criteria	Definition
<i>Aesthetic value</i>	Aesthetic value includes aspects of sensory perception for which criteria can and should be stated. Such criteria may include consideration of the form, scale, colour, texture and material of the fabric; the smells and sounds associated with the place and its use.
<i>Historic value</i>	Historic value encompasses the history of aesthetics, science and society, and therefore to a large extent underlies all of the terms set out in this section. A place may have historic value because it has influenced, or has been influenced by, an historic figure, event, phase or activity. It may also have historic value as the site of an important event. For any given place the significance will be greater where evidence of the association or event survives <i>in situ</i> , or where the settings are substantially intact, than where it has been changed or evidence does not survive. However, some events or associations may be so important that the place retains significance regardless of subsequent treatment.
<i>Scientific value</i>	The scientific or research value of a place will depend upon the importance of the data involved, on its rarity, quality or representativeness, and on the degree to which the place may contribute further substantial information.
<i>Social value</i>	Social value embraces the qualities for which a place has become a focus of spiritual, political, national or other cultural sentiment to a majority or minority group.

#### 16.1.1 Other Approaches: Scientific Significance

The categorisation into aesthetic, historic, scientific and social values is one approach to understanding the concept of cultural significance. However, more precise categories may be developed as understanding of a particular place increases.

The NSW DECCW guidelines for the significance assessment of Aboriginal archaeological sites are contained within the *Aboriginal Cultural Heritage: Standards and Guidelines Kit* (NPWS, 1997). The Kit identifies two main streams in the overall significance assessment process: the assessment of cultural/social significance to Aboriginal people and the assessment of scientific significance to archaeologists. This approach encapsulates those aspects of the Burra Charter that are relevant to Aboriginal archaeological sites. The guidelines specify the following criteria for scientific significance, as paraphrased in Table 15.



**Table 15: Criteria for Assessing Archaeological/Scientific Significance**

Significance Criteria	Definition
<i>Research Potential</i>	It is the potential to elucidate past behaviour which gives significance under this criterion rather than the potential to yield collections of artefacts. Matters considered under this criterion include – the intactness of a site, the potential for the site to build a chronology and the connectedness of the site to other sites in the archaeological landscape.
<i>Representativeness</i>	As a criterion, representativeness is only meaningful in relation to a conservation objective. Presumably all sites are representative of those in their class or they would not be in that class. What is at issue is the extent to which a class of sites is conserved and whether the particular site being assessed should be conserved in order to ensure that we retain a representative sample of the archaeological record as a whole. The conservation objective which underwrites the ‘representativeness’ criteria is that such a sample should be conserved.
<i>Rarity</i>	This criterion cannot easily be separated from that of representativeness. If a site is ‘distinctive’ then it will, by definition, be part of the variability which a representative sample would represent. The criteria might best be approached as one which exists within the criteria of representativeness, giving a particular weighting to certain classes of site. The main requirement for being able to assess rarity will be to know what is common and what is unusual in the site record but also the way that archaeology confers prestige on certain sites because of their ability to provide certain information. The criterion of rarity may be assessed at a range of levels: local, regional, state, national, and global.
<i>Educational Potential</i>	Heritage sites and areas should be conserved and managed in relation to their value to people. It is assumed that archaeologists have the ability to speak of the value of sites to members of their own profession. Where archaeologists or others carrying out assessments are speaking for the educational value of sites to the public, the onus is on them to go to the public for an assessment of this value, or to reputable studies which have canvassed public demand for education. The danger, otherwise, is that archaeologists would be projecting their values onto a public which is itself given no voice on the matter.
<i>Aesthetics</i>	Archaeologists are not expected to include an assessment of aesthetic significance along with their assessment of scientific significance. In relation to heritage places, aesthetic significance is generally taken to mean the visual beauty of the place. Aesthetic value is not inherent in a place, but arises in the sensory response people have to it.

### 16.1.2 Grading Values and Significance

The following gradations, where a site or zone satisfies at least one criterion, have been applied to provide a measure of the values/significance for Aboriginal objects identified within the Study Area, and to provide an overall assessment of the significance of each of the zones used that define the Study Area.

**Low:** The site or object contains only a single or limited number of features, and has no potential to meaningfully inform our understanding of the past beyond what it contributes through its current recording (i.e. no or low research potential). The site or object is a representative but unexceptional example of the most common class of sites or objects in the region. Many more similar examples can be confidently predicted to occur within the Study Area, and in the region.

**Moderate:** The site or object derives value because it contains features, both archaeological and contextual, which through further investigation may contribute to our understanding of the local past. These features include, but are not limited to: the relationship with landscape features or other Aboriginal archaeological sites or areas of identified heritage importance; diagnostic archaeological or landscape features that inform a chronology; and a relatively large assemblage of stone artefacts. The presence of a diverse artefact and feature assemblage, and connectedness with landscape features and other notable sites provide relatively higher representative and rarity values than sites of low significance.

**High:** The site or object has value because it contains archaeological and/or contextual features which through further investigation may significantly contribute to our understanding of the past, both locally and on a regional scale. These features include, but are not limited to: Aboriginal ancestral remains; the site's relationship with landscape features or other Aboriginal archaeological sites or areas of identified heritage importance; diagnostic archaeological or landscape features that inform a chronology; and a very large assemblage of stone artefacts associated with other features such as oven remains or shell middens. Such sites will be relatively rare, and will be representative of a limited number of similar sites that make up this class; hence they derive high representative and rarity values.

### 16.1.3 Assessment of Values and Significance

This stage is used to assess and discuss the cultural significance of the values identified during the identification and assessment of cultural significance by consulting Aboriginal people and to prepare a statement of significance. The assessment of values is a discussion of what is significant and why. An assessment of values is more than simply restating the evidence collected during the background review and identification of values stages of the project. Rather, the assessment should lead to a statement of significance that sets out a succinct summary of the salient values that have been identified.

The assessment and justification in the statement of significance must discuss whether any value meets the following criteria outline in *Assessing Heritage Significance* (NSW Heritage Office, 2001):

- Does the Study Area have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons? – Social value.
- Is the Study Area important to the cultural or natural history of the local area and/or region and/or state? – Historic value.
- Does the Study Area have potential to yield information that would contribute to an understanding of the cultural or natural history of the local area and/or region and/or state? – Scientific (archaeological) value.
- Is the Study Area important in demonstrating aesthetic characteristics in the local area and/or region and/or state? – Aesthetic value.

Assessment of each of the criteria (above) should be graded in terms that allow the significance to be described and compared; for example, as high, moderate or low. In applying these criteria, consideration should also be given to:

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

Thus the statement of significance is a succinct summary of the salient values drawn from the identification of values.

## 16.2 Statements of Significance for the Study Area

As described in Section 15, although the surveys and test excavations for this assessment identified a total of five Aboriginal heritage sites, only four are located within the Study Area and only three are located within the Modification area (Figure 9). Notwithstanding, for completeness, a significance assessment has been prepared for all five identified sites regardless of the potential for impacts associated with the Modification.

No further areas of Aboriginal cultural heritage value were identified. All of the recorded sites were assessed as having low scientific significance.

### 16.2.1 Social Value

As previously discussed, the landscape of the Hunter River maintains a role as an important cultural and social item for the Wanaruah people. The river provides a tangible link between today's communities, who manage the land in contemporary circumstances, and their Wanaruah ancestors.

### 16.2.2 Aesthetic Value

The Study Area has no outstanding values for aesthetic characteristics in the local area and/or region and/or state. No aesthetically significant archaeological site has been identified. The RAPs have not made comment on the aesthetic values of the Study Area.

### 16.2.3 Historic Value

Consultation with the RAPs, desktop investigations and background literature review identified no direct historical figures, events, phases or activities within the historical or oral history records relevant to the Study Area. The Study Area has not been demonstrated to be important to the cultural or natural history of the local area and/or region and/or state. However, the RAPs expressed that the Study Area has an important place in the wider cultural values of the area and Hunter Valley region.

### 16.2.4 Scientific (Archaeological) Value

The Study Area has limited potential to yield information that would contribute to a further understanding of the cultural or natural history of the local area and/or region and/or state. The Study Area contains Aboriginal objects, but these have very limited research or information potential beyond their current recording and incorporation into the AHIMS register and MACH Energy database.

### 16.2.5 Cultural Value

With the exception of the Aboriginal heritage sites identified during this survey and previous surveys, there were no specific areas or places of cultural value identified during the survey for the Modification. Previous assessments have identified various cultural values by the Aboriginal community in relation to the area of the MPO. No additional cultural values were provided by the Aboriginal community during the assessment for Modification.

Table 16 outlines the identified values for each of the Aboriginal sites located during the field surveys.



**Table 16: Significance Assessment for Identified Aboriginal Heritage Sites**

Site details	Located within Modification area?	Social or cultural values	Historic value	Scientific (archaeological) value	Aesthetic value	Aboriginal Cultural Value
MPO 2017/1 (37-3-0027)	No*	There have been no spiritual, traditional, historical or contemporary associations and attachments identified by the RAPs. There is however the contemporary view held by the RAPs that all Aboriginal objects and sites are important within the region due to their interconnectivity with the natural landscape and past occupation of the region.	None	Low	None	To be included once the draft report has been reviewed by the RAPs.
MPO 2017/2 (37-3-0026)	No*	There have been no spiritual, traditional, historical or contemporary associations and attachments identified by the RAPs. There is however the contemporary view held by the RAPs that all Aboriginal objects and sites are important within the region due to their interconnectivity with the natural landscape and past occupation of the region.	None	Low	None	
MPO 2017/3 (37-3-0025)	Yes	There have been no spiritual, traditional, historical or contemporary associations and attachments identified by the RAPs. There is however the contemporary view held by the RAPs that all Aboriginal objects and sites are important within the region due to their interconnectivity with the natural landscape and past occupation of the region.	None	Low	None	
MPO 2017/4 (37-3-0028)	Yes	There have been no spiritual, traditional, historical or contemporary associations and attachments identified by the RAPs. There is however the contemporary view held by the RAPs that all Aboriginal objects and sites are important within the region due to their interconnectivity with the natural landscape and past occupation of the region.	None	Low	None	
MPO 2017/5 (37-3-0029)	Yes	There have been no spiritual, traditional, historical or contemporary associations and attachments identified by the RAPs. There is however the contemporary view held by the RAPs that all Aboriginal objects and sites are important within the region due to their interconnectivity with the natural landscape and past occupation of the region.	None	Low	None	

\* Located outside of Modification area and would not be subject to impacts associated with the Modification.

## 17. Impact Assessment

The *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH, 2011) requires that both direct and indirect impact to Aboriginal objects and Aboriginal places be considered.

Generally, direct impact refers to occasions where an activity physically impacts a site or objects and therefore affects the heritage values of the site or objects (e.g. disturbance of the ground surface or soil units in areas where known Aboriginal objects exist or in areas that require further investigation to confirm the presence or absence of Aboriginal objects or cultural value).

Indirect impact is usually taken to mean impact stemming from secondary consequences of the activity, and may affect sites or objects as an indirect consequence of the activity. Examples of such indirect impact are increased visitors to a site, or increased erosion in an area as a result of an activity.

### 17.1 Potential Impacts Associated with the Modification

The area subject to survey for this assessment was larger than the current Modification area (i.e. the area to which impacts may occur as a result of the Modification). Detailed mine planning and refinement of the final proposed disturbance area has resulted in the avoidance of direct impact to some identified heritage sites.

For the purposes of this assessment, the three (3) Aboriginal heritage sites that occur within the Modification area are considered to have the potential to be directly impacted by the proposed activities, which will involve the excavation of soil profiles and will result in the complete removal of potential archaeological resources.

The other identified Aboriginal heritage sites are not considered to be subject to direct or indirect impacts as a result of the Modification, due to their significant distance from the Modification activities. Impacts to these sites are not considered further in this assessment.

### 17.2 Summary of Potential Impacts

As required by the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW, 2010b), a consideration of the likely impacts (and loss of value) to Aboriginal heritage sites as a result of the Modification is listed in Table 17.

**Table 17: Impact Assessment for Modification**

Site ID	Type of Impact	Degree of Impact	Consequence of Impact
MPO 1/2017 (33-3-0027)	None	None	None
MPO 2/2017 (33-2-0026)	None	None	None
MPO 3/2017 (33-2-0025)	Direct	Total	Total loss of value
MPO 4/2017 (33-2-0028)	Direct	Total	Total loss of value
MPO 5/2017 (33-2-0029)	Direct	Total	Total loss of value

The Modification is located in an area of low Aboriginal archaeological potential that has been subject to systematic survey, and unanticipated impacts and harm to cultural values are not likely. Taken within the context of the known Aboriginal heritage sites at the MPO and surrounds, the sites discussed in this report are all of low scientific significance, and harm to some of these sites represents a low level of harm and loss of cultural value. Such low levels of harm are not significant in terms of the principles of ecological sustainable development and inter-generational equity described and recommended in the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH, 2011).

### **17.3 Consideration of Cumulative Impacts**

Cumulative impacts are the successive, incremental and combined impacts of one or more activities on the environment, including cultural heritage values. Taken in context with pre-existing development and conservation in the region, it is considered that the Modification would occur within a highly disturbed landscape (e.g. due to extensive agricultural activities).

None of the identified Aboriginal objects are assessed as rare or unique, and they represent a well-documented and researched segment of Aboriginal archaeological resources in the area. The Modification is not expected to cause a loss of heritage resources that could be viewed as being very rare or unique or unlikely to exist elsewhere. Therefore, the Modification would not result in any significant cumulative impact on Aboriginal heritage in the region.



## 18. Management Measures and Recommendations

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The currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017), which was prepared in consultation with the RAPs and relevant government agencies, outlines the management requirements for Aboriginal heritage at the MPO. While the majority of the Modification area is located outside of the boundaries to which the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017) applies, the requirements of the plan have been considered in the development of the recommendations made by this assessment. Further, the recommendations made below refer to practical measures that should be taken to protect and conserve Aboriginal objects or places to mitigate harm to Aboriginal objects or places.

The recommendations made in relation to the Modification are as follows:

1. MACH Energy should continue to liaise with the RAPs throughout life of the Modification. Consultation should be undertaken consistent with the consultation requirements outlined in the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017).
2. Additional inspection by archaeologists and representatives of the RAPs, following final design of all supporting ancillary infrastructure (e.g. power supply to the pump station, access tracks etc.), where the location has not already been subject to systematic archaeological survey.
3. An AHIMS site card for each of the newly identified sites have been submitted for the AHIMS register for all newly recorded sites in line with legislative requirements under the NPW Act.
4. The MPO Aboriginal Heritage Site Database and the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017) should be updated as soon as practicable to incorporate the Modification (noting that this update is not required prior to the implementation of the agreed/relevant management measure).
5. MACH Energy should seek a new area based AHIP (and/or a variation to an existing AHIP) to allow for impacts associated with the Modification. This ACHA would form part of this application.
6. Prior to any surface disturbance impacts occurring, site MPO 2017/3 should be subject to salvage (i.e. surface collection) and should be stored at the MPO temporary storage facility at the Broomfield Homestead Complex (1100 Wybong Road, Mount Pleasant).
7. Once analysis has been completed by Niche for the artefacts collected during the archaeological test excavation program, all artefacts should be stored at the MPO temporary storage facility at the Broomfield Homestead Complex (1100 Wybong Road, Mount Pleasant).
8. For any previously unrecorded Aboriginal heritage sites that may be identified during the Modification, they should be managed consistent with the requirements outlined in the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017).
9. MACH Energy should implement emergency response procedures for any discovery of unknown Aboriginal objects and/or unexpected skeletal remains during construction activities for the Modification, in accordance with the currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017).

10. In accordance with currently approved *Mount Pleasant Operation Aboriginal Heritage Management Plan* (MACH Energy, 2017) Aboriginal cultural heritage should continue to be a component of all employee and contractor inductions.

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- Rich, E. (1995) *Mt Pleasant Coal Lease, New Muswellbrook, NSW: Archaeological survey for Aboriginal site*. An unpublished report prepared for ERM Mitchell McCotter Pty Ltd and Coal & Allied Operations Pty Ltd.
- Scarp Archaeology (2009) *Technical Advisor Report: Cultural Heritage Investigations, Conveyor Easement Survey, Mount Pleasant Mine, Hunter Valley*. Report prepared for Rio Tinto Coal Australia.
- Scarp Archaeology (2010a) *Technical Advisor Report: Cultural Heritage Investigations, Conveyor Easement Survey, Mount Pleasant Mine, Hunter Valley*. An unpublished report prepared for Rio Tinto Coal Australia.
- Scarp Archaeology (2010b) *Technical Advisor Report: Cultural heritage Investigations of the Proposed Broomfield Aboriginal Cultural Heritage Conservation Area for the Mount Pleasant Coal Mine, Hunter Valley, Muswellbrook LGA*. An unpublished report prepared for Rio Tinto Coal Australia.
- Scarp Archaeology (2011) *Technical Advisor Preliminary Advice: Cultural Heritage Investigations- Mount Pleasant Mine, Hunter Valley Stage 6*. Draft report prepared for Rio Tinto Coal Australia.

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South East Archaeology (2017a) *Mount Pleasant Operation, Hunter Valley, New South Wales. Aboriginal Heritage reassessment of 3 previously reported scarred trees*. An unpublished report for MACH Energy Australia Pty Ltd.

South East Archaeology (2017b) *Mount Pleasant Operation, Hunter Valley, New South Wales. Aboriginal Heritage reassessment of 4 previously reported scarred trees*. An unpublished report for MACH Energy Australia Pty Ltd.

South East Archaeology (2017c) *Mount Pleasant Operation, Hunter Valley, New South Wales. Aboriginal Heritage reassessment of 11 previously reported scarred trees*. An unpublished report for MACH Energy Australia Pty Ltd.

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Umwelt Environmental Consultants (2009) *Aboriginal Heritage Assessment: Narama Extended Project, Appendix 8 - Aboriginal Heritage Assessment*. Report on behalf of Ravensworth Operations.

White, E. (1998) *Archaeological salvage of sites B10 & B33 Bengalla Mine, Hunter Valley NSW*.

## Appendix 1 - Community Consultation Log

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DATE	ORGANISATION CONTACTED	HOW CONTACTED	CONTACTED BY	NATURE OF CONSULTATION
4/05/2017	Step 1 Government Organisations (Wanaruah LALC, Office of Environment and Heritage (Dubbo), Muswellbrook Shire Council, Hunter Local Land Services, NTSCORP, National Native Title Tribunal, Office of the Registrar)	Post	Chris Lauritzen, MACH Energy	Step 1 letters sent out to relevant organisation requesting details of Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the Area of Interest for the Mount Pleasant Operation.
9/05/2017	MACH Energy	Email	Ross Pahuru, Hunter Valley Aboriginal Corporation	Response to Step 1 letter received.
9/05/2017	MACH Energy	Email	Tracey Skene, Culturally Aware	Response to Step 1 letter received.
10/05/2017	MACH Energy	Email	Renee MacDonald, Wanaruah LALC	Response to Step 1 letter received.
11/05/2017	MACH Energy	Email	Naomi Golightly, Office of Environment and Heritage	Response to Step 1 letter received.
16/05/2017	MACH Energy	Email	Kathie Steward Kinchela, Yinarr Cultural Services	Response to Step 1 letter received.
24/05/2017	MACH Energy	Email	Kim Manwarring, Muswellbrook Shire Council	Response to Step 1 letter received.
26/05/2017	MACH Energy	Email	Bianca Ceissman, Office of the Registrar	Response to Step 1 letter received.
29/05/2017	Existing Registered Aboriginal Parties for the Mount Pleasant Operation	Post	Chris Lauritzen, MACH Energy	Letters sent out to existing RAPs at the Mount Pleasant Operation to advise them of the registration process and to notify them that they have been automatically registered as Registered Aboriginal Parties.
29/05/2017	Aboriginal stakeholders identified by relevant government organisations	Post	Chris Lauritzen, MACH Energy	Step 2 letters sent out to groups/individual identified during Step 1 (who are not already automatically registered for the Project), inviting Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the Area of Interest to register an interest in the Project.
31/05/2017	N/A	Public Notice	MACH Energy	A public notice was published in the Koori Mail on 31 May 2017, inviting Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the Area of Interest to register an interest in the Project.
31/05/2017	N/A	Public Notice	MACH Energy	A public notice was published in the Singleton Argus on 31 May 2017, inviting Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the Area of Interest to register an interest in the Project.
1/06/2017	MACH Energy	Email	Kristen Kerr, Warrabinga NTCAC	Provided registration of interest.
1/06/2017	Amanda Howard	Email	MACH Energy	Confirmed receipt of Step 2 correspondence.
2/06/2017	N/A	Public Notice	MACH Energy	A public notice was published in the Muswellbrook Chronicle on 2 June 2017, inviting Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal object(s) and/or place(s) in the Area of Interest to register an interest in the Project.
5/06/2017	MACH Energy	Email	Des Hickey	Provided registration of interest for Hunter Valley Cultural Surveying and Valley ELM Corp.
27/06/2017	MACH Energy	Email	Amanda Howard	Provided a registration of interest.
5/07/2017	MACH Energy	Email	Carolyn Hickey, A1 Indigenous Cultural Services	Provided a registration of interest.

6/07/2017	NSW Office of Environment and Heritage and Wanaruah Local Aboriginal Land Council	Post	MACH Energy	Provided correspondence to OEH and Wanaruah LALC providing copies of registration materials and a list of the Registered Aboriginal Parties.
8/09/2017	Registered Aboriginal Parties	Post	MACH Energy	A copy of the Proposed Methodology was distributed to all Registered Aboriginal Parties for their review and comment. Feedback was requested by COB Wednesday 11 October 2017.
15/09/2017	MACH Energy	Telephone	Margaret Matthews, Aboriginal Native Title Consultants	Confirmed that Margaret, John and another individual will be attending the information session.
16/09/2017	MACH Energy	Email	Tracey Skene, Culturally Aware	Provided support for the Proposed Methodology.
25/09/2017	MACH Energy	Email	Wanaruah Local Aboriginal Land Council	Confirmed attendance at information session.
25/09/2017	MACH Energy	Telephone	Deidre Perkins, Divine Diggers Aboriginal Cultural Consultants	Provided apology for information session.
5/10/2017	MACH Energy	Email	Ross Pahuru, Hunter Valley Aboriginal Corporation	Confirmed attendance at information session.
5/10/2017	MACH Energy	Email	Ann Hickey, Gidawaa Walang Cultural Heritage Consultancy	Provided support for the Proposed Methodology.
5/10/2017	Office of Environment and Heritage	Email	MACH Energy	Provided notification to OEH of proposed test excavations in accordance with Requirement 15C of the Code of Practice.
9/10/2017	MACH Energy	Email	Office of Environment and Heritage	Confirmed receipt of test excavation notification.
10/10/2017	Registered Aboriginal Parties	Information Session	MACH Energy	Information session held to discuss Modification and Proposed Methodology.
12/10/2017	Registered Aboriginal Parties	Email/Telephone	MACH Energy	Provided invitation to attend additional information session on 17 October 2017.
12/10/2017	MACH Energy	Email	Lance Syme, Warrabinga	Emailed to request copies of documentation from steps 2 and 3 of the consultation process.
13/10/2017	Registered Aboriginal Parties	Email/Post	MACH Energy	Provided additional figure to support the test excavation proposed methodology.
13/10/2017	Lance Syme, Warrabinga	Email	MACH Energy	Provided response and copies of requested documentation.
17/10/2017	Registered Aboriginal Parties	Information Session	MACH Energy	Additional information session held to discuss proposed archaeological test excavation program.
12/10/2017	Buda Mada Koori Womens Aboriginal Corporation	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Gidawaa Walang Cultural Heritage Consultancy	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Barry & Colleen Stair	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Lower Wonnarua Tribal Consultancy Pty Ltd	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	BJC Cultural Management	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Muswellbrook Culture Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Chantae Griffiths	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Mingga Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Esther Tighe	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Fiona Draper	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Gina Field	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Wonnarua Culture Heritage	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Gomerioi Murri Ganuur Yuuray Wadi Palinka	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Hazel Collins	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Crimson-Rosie	Telephone	MACH Energy	Invitation to Information Session

12/10/2017	Aboriginal Native Title Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Galamaay Consultant	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Bawurra Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	KL.KG Saunders Trading Services	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Luke Cameron Cultural Management	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	ME Griffiths Cultural Management	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Marvonja Welsh	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Michele Stair	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Upper Hunter Wonnarua Council Incorporated	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Ungooroo Cultural & Community Services Inc	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Roger Noel Matthews	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Moreeites	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	Breeza Plains Culture and Heritage Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	T & G Culture Consultants	Telephone	MACH Energy	Invitation to Information Session
12/10/2017	My Land Cultural Heritage	Telephone	MACH Energy	Invitation to Information Session
10/11/2017	Registered Aboriginal Parties	Post	MACH Energy	A copy of the draft ACHA was distributed to all RAPs for their review and comment.
16/11/2017	MACH Energy	Telephone	Norman Archibald	Called to advise that he had no issues with the draft report.
22/11/2017	Registered Aboriginal Parties	Post	MACH Energy	An invitation to a draft ACHA information session and site inspection was provided to all RAPs.



# Appendix 2 - Community Consultation Records

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## **STEP 1 CORRESPONDENCE**

4 May 2017

Wanaruah Local Aboriginal Land Council  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Noel,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

As part of these environmental approvals, MACH Energy will be preparing an Aboriginal Cultural Heritage Assessment(s), and therefore may seek a new Aboriginal Heritage Impact Permit (AHIP) under section 90 of the NSW *National Parks and Wildlife Act, 1974* to move and/or destroy Aboriginal objects (or a variation to the existing permits [AHIP #C0002053, #C0002092]). The subject area of the any such application is depicted as the “Area of Interest” as shown on the enclosed plan.

For the purposes of meeting its consultation requirements as set out in the *Aboriginal cultural heritage consultation requirements for proponents 2010* (NSW Department of Environment, Climate Change and Water, 2010) (Consultation Guidelines) issued by the NSW Office of Environment and Heritage, MACH Energy hereby notifies you that it would like to consult with any Aboriginal persons or groups who may hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal objects and/or places in the “Area of Interest”.

Should you know of any Aboriginal person or group who may wish to be consulted in relation to the process described above, could you please provide their details before **5.00pm on 23 May 2017** to MACH Energy via the following contact details:

MACH Energy Australia Pty Ltd  
C/- Danielle Wallace  
PO Box 379, WEST RYDE NSW 2114  
[dwallace@resourcestrategies.com.au](mailto:dwallace@resourcestrategies.com.au)  
Mobile: 0414 833 397



MACH Energy will then write to each Aboriginal person or group whose details are provided by you to notify them of the process and invite them to register an interest in the process of community consultation to be carried out in accordance with the Consultation Guidelines.

Please note that MACH Energy proposes to automatically register all existing Registered Aboriginal Parties currently being consulted at the Mount Pleasant Operation. Correspondence will be provided to these parties separately in this regard.

MACH Energy advises that the details of any Aboriginal person or group who registers an interest in the consultation process for the Mount Pleasant Operation will be forwarded to the NSW Office of Environment and Heritage and the Wanaruah Local Aboriginal Land Council in accordance with section 4.1.5. of the Consultation Guidelines, unless they specify that they do not want their details released.

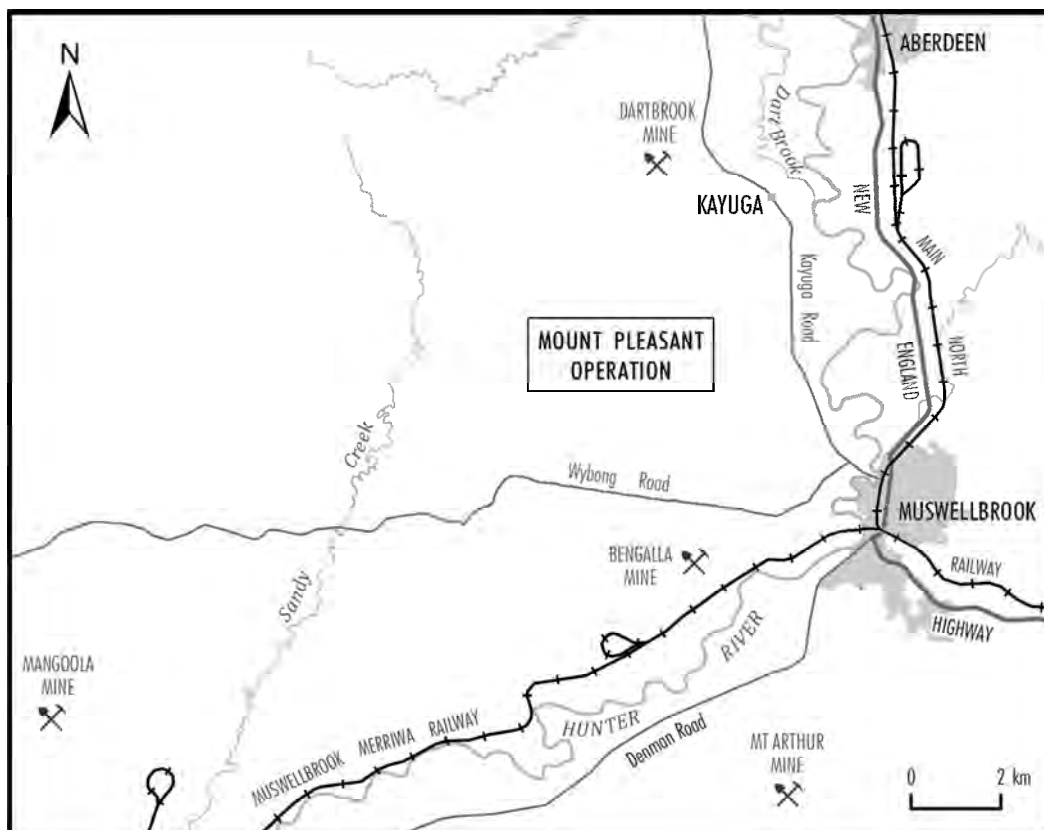
Yours sincerely,



**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

Office of Environment and Heritage  
PO Box 2111  
DUBBO NSW 2830

Dear Sir/Madam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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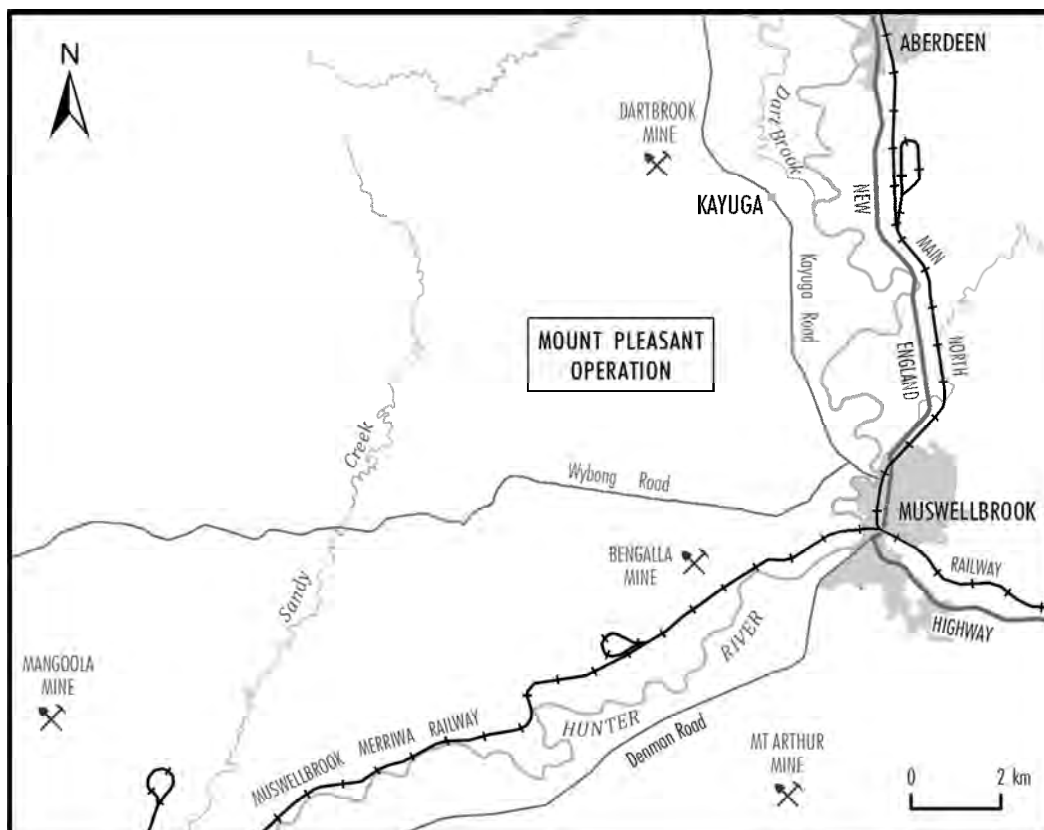
Yours sincerely,



**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

Muswellbrook Shire Council  
Attn: Steve McDonald, General Manager  
PO Box 122  
MUSWELLBROOK NSW 2333

Dear Steve,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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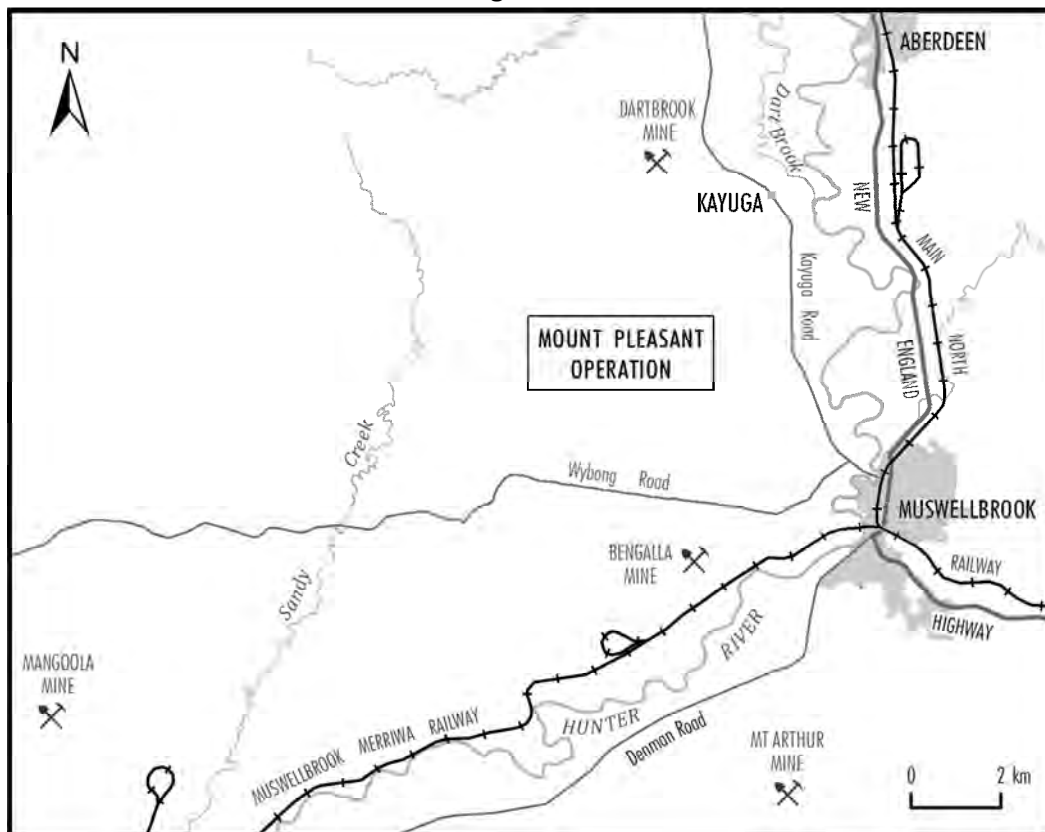
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**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

Hunter Local Land Services  
Attn: Brett Miners, General Manager  
98 John Street  
SINGLETON NSW 2330

Dear Brett,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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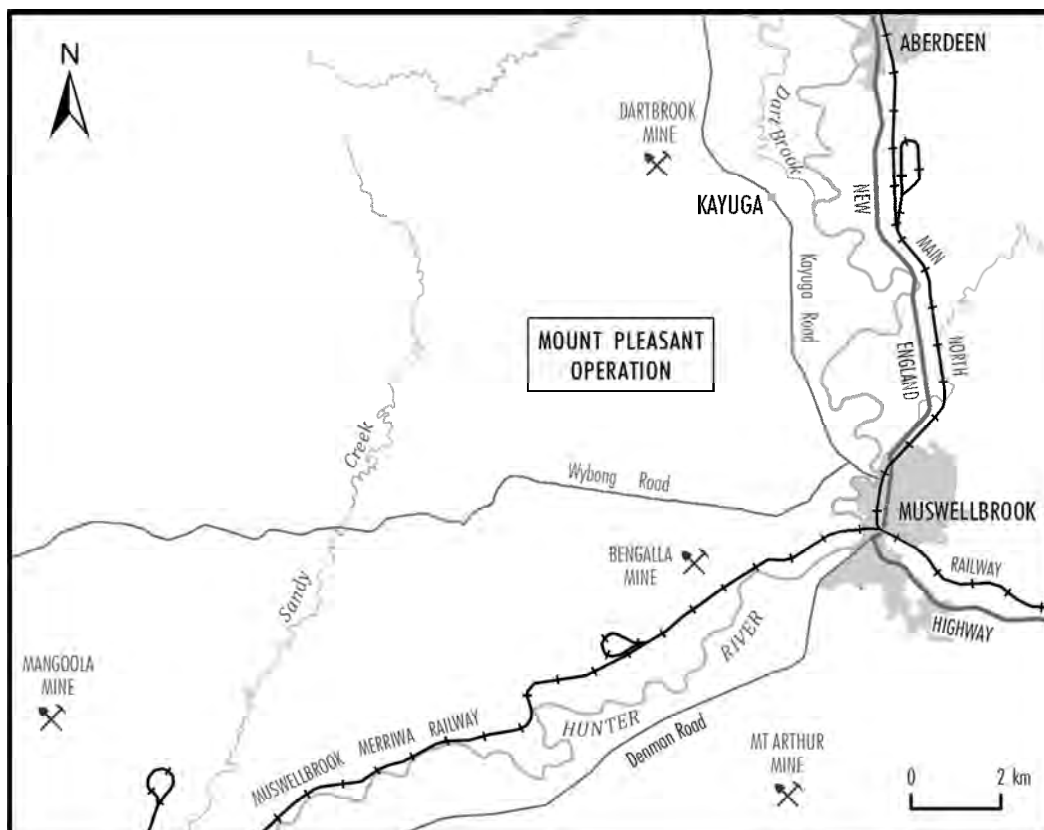
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**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

Native Title Services Corporation Limited  
PO Box 2105  
STRAWBERRY HILLS NSW 2012

Dear Sir/Madam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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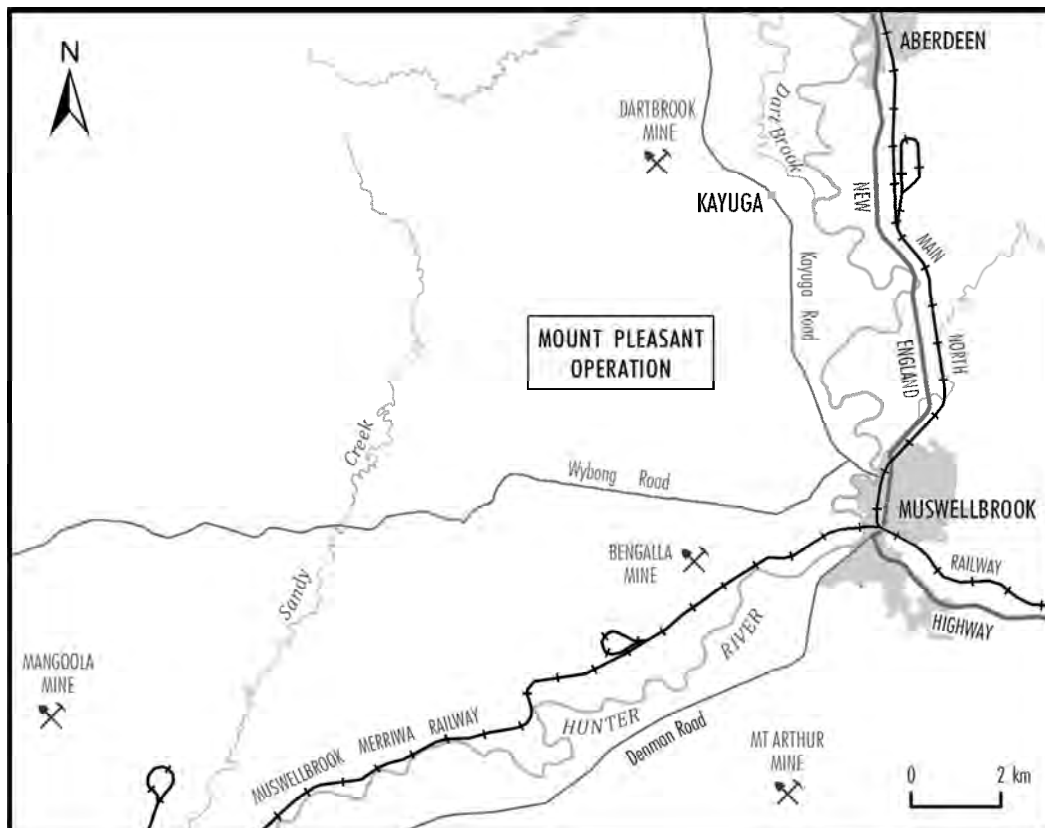
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**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

National Native Title Tribunal  
NSW & ACT Registry  
GPO Box 9973  
SYDNEY NSW 2001

Dear Sir/Madam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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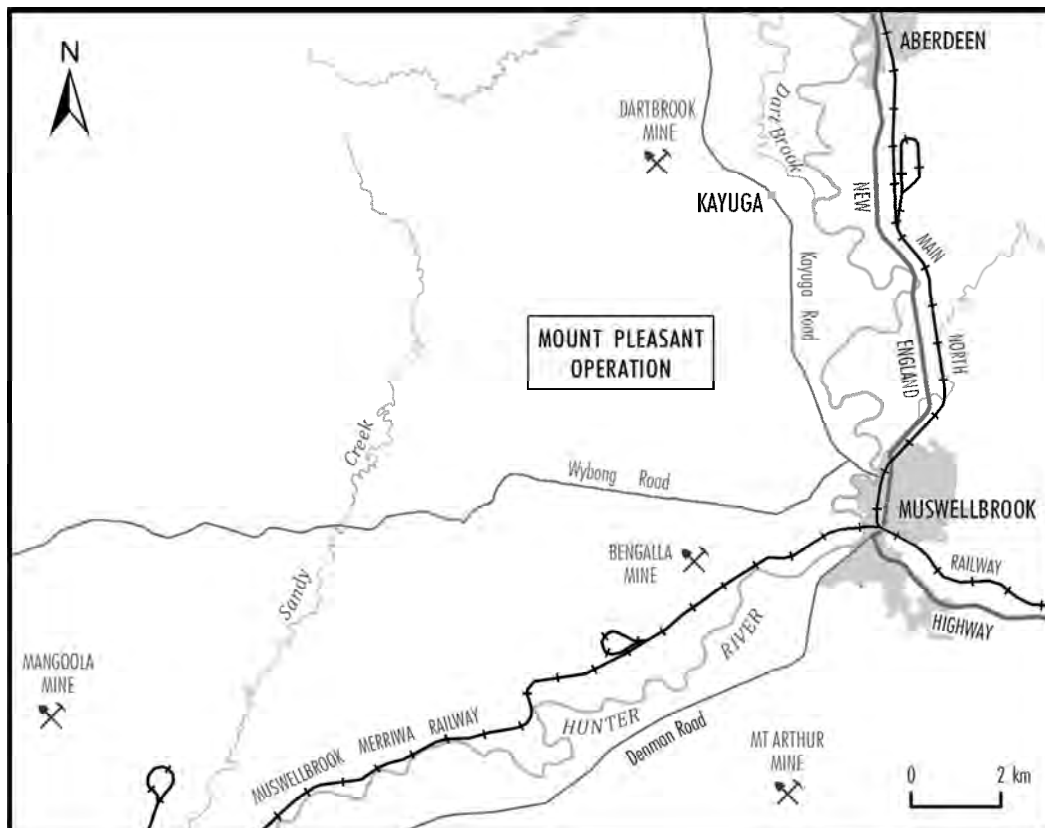
Yours sincerely,



**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



4 May 2017

The Registrar  
Office of the Registrar, Aboriginal Land Rights Act 1983  
PO Box 112  
GLEBE NSW 2037

Dear Sir/Madam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

As part of these environmental approvals, MACH Energy will be preparing an Aboriginal Cultural Heritage Assessment(s), and therefore may seek a new Aboriginal Heritage Impact Permit (AHIP) under section 90 of the NSW *National Parks and Wildlife Act, 1974* to move and/or destroy Aboriginal objects (or a variation to the existing permits [AHIP #C0002053, #C0002092]). The subject area of the any such application is depicted as the "Area of Interest" as shown on the enclosed plan.

For the purposes of meeting its consultation requirements as set out in the *Aboriginal cultural heritage consultation requirements for proponents 2010* (NSW Department of Environment, Climate Change and Water, 2010) (Consultation Guidelines) issued by the NSW Office of Environment and Heritage, MACH Energy hereby notifies you that it would like to consult with any Aboriginal persons or groups who may hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal objects and/or places in the "Area of Interest".

Should you know of any Aboriginal person or group who may wish to be consulted in relation to the process described above, could you please provide their details before **5.00pm on 23 May 2017** to MACH Energy via the following contact details:

MACH Energy Australia Pty Ltd  
C/- Danielle Wallace  
PO Box 379, WEST RYDE NSW 2114  
[dwallace@resourcestrategies.com.au](mailto:dwallace@resourcestrategies.com.au)  
Mobile: 0414 833 397



MACH Energy will then write to each Aboriginal person or group whose details are provided by you to notify them of the process and invite them to register an interest in the process of community consultation to be carried out in accordance with the Consultation Guidelines.

Please note that MACH Energy proposes to automatically register all existing Registered Aboriginal Parties currently being consulted at the Mount Pleasant Operation. Correspondence will be provided to these parties separately in this regard.

MACH Energy advises that the details of any Aboriginal person or group who registers an interest in the consultation process for the Mount Pleasant Operation will be forwarded to the NSW Office of Environment and Heritage and the Wanaruah Local Aboriginal Land Council in accordance with section 4.1.5. of the Consultation Guidelines, unless they specify that they do not want their details released.

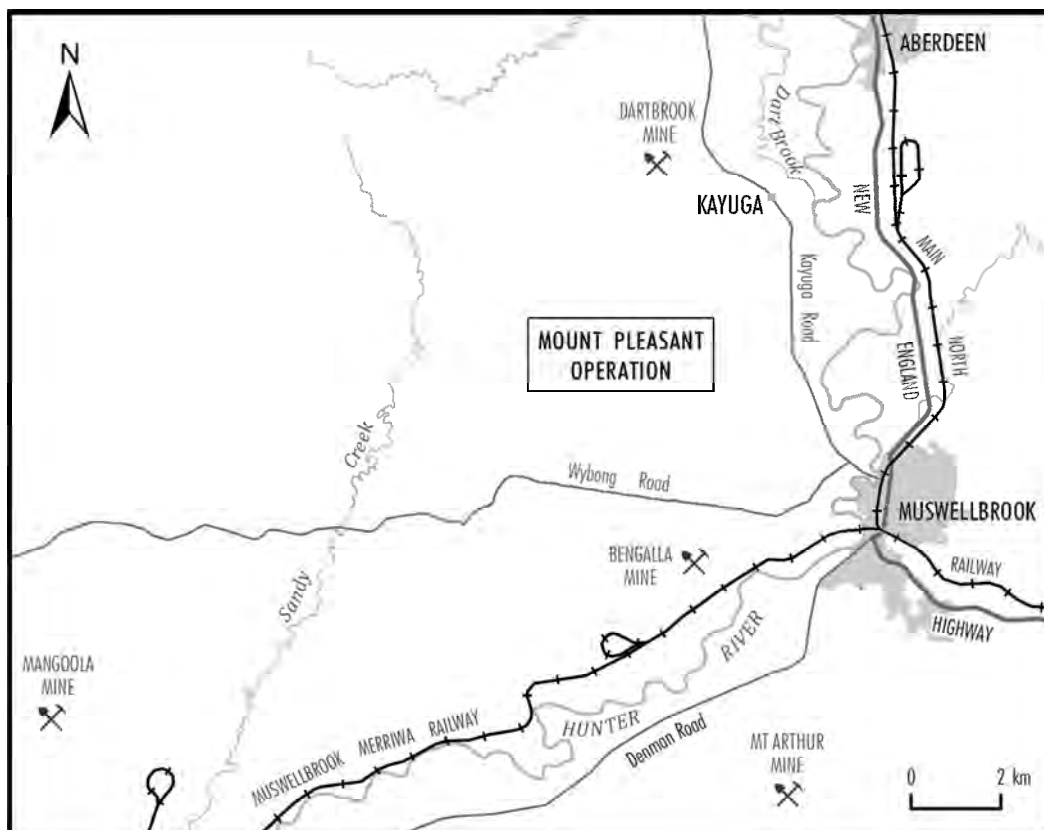
Yours sincerely,



**Chris Lauritzen**

General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



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**From:** Ross Pahuru [Manager@hvabcorp.org.au]  
**Sent:** Tuesday, 9 May 2017 2:13 PM  
**To:** Danielle Wallace  
**Subject:** FW: Mount Pleasant Operations - Aboriginal Cultural Heritage Assessment  
**Attachments:** admin.wanaruah@bigpond.com\_20170509\_084301.pdf

Hi there

Please kindly put the Hunter Valley Aboriginal Corporation down as a interested party.

We are usually kept informed on this type of notice from Mach Energy however we seem to have slipped through the Gap

We have also recently changed Email addresses,

The Manager is [manager@hvabcorp.org.au](mailto:manager@hvabcorp.org.au)

Or the office [office@hvabcorp.org.au](mailto:office@hvabcorp.org.au)

Can you also amend your records to show this

Kind Regards

Subject: Mount Pleasant Operations - Aboriginal Cultural Heritage Assessment

Good morning,

Mach Energy would like registered Aboriginal parties and cultural knowledge holders to register their interest by contacting:

MACH Energy Australia Pty Ltd  
C/-Danielle Wallace  
PO Box 379 West Ryde NSW 2114  
[dwallace@resourcestrategies.com.au](mailto:dwallace@resourcestrategies.com.au)  
0414 833 397

Please see the attached letter for further details.

Regards  
Renee

Renee MacDonald  
Administration

Wanaruah Local Aboriginal Land Council

PO Box 127  
MUSWELLBROOK NSW 2333

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**From:** Tracey Skene [tracey@marrung-pa.com.au]  
**Sent:** Tuesday, 9 May 2017 7:03 PM  
**To:** Danielle Wallace  
**Subject:** EOI Mt Pleasant

Good evening Danielle,

I would like to put forward my Expression of interest for Mt Pleasant culture heritage Assessment.

Thanks  
Tracey Skene  
Culturally Aware  
Mobile phone 0474106537

---

**From:** Admin-Wanaruah [admin.wanaruah@bigpond.com]  
**Sent:** Wednesday, 10 May 2017 3:49 PM  
**To:** Danielle Wallace  
**Subject:** Mount Pleasant Operation - Aboriginal Cultural Heritage Assessment  
**Attachments:** admin.wanaruah@bigpond.com\_20170510\_150339.pdf; Registered Aboriginal Parties.xlsx

Good afternoon Danielle,

Please find attached Wanaruah Lalc's letter of interest and a list of Registered Aboriginal Parties that may be interested in the process.

Regards  
Renee

Renee MacDonald  
Administration

Wanaruah Local Aboriginal Land Council

PO Box 127  
MUSWELLBROOK NSW 2333  
Ph: 02 6543 1288

I acknowledge the Traditional Owners of the land I work upon, the Wanaruah People and pay my respects to Elders past, present and future.

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This email has been checked for viruses by Avast antivirus software.  
<https://www.avast.com/antivirus>



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**From:** Naomi Golightly [Naomi.Golightly@environment.nsw.gov.au]  
**Sent:** Thursday, 11 May 2017 10:01 AM  
**To:** Danielle Wallace  
**Subject:** OEH Aboriginal Stakeholder Register for Upper Hunter Shire LGA  
**Attachments:** RODHCC\_Aboriginal Stakeholder Register\_10032017\_Upper Hunter Shire.pdf

Dear Danielle,

I refer to your letter to the Office of Environment and Heritage, dated 4 May 2017.

Please find attached the Aboriginal Stakeholder list for your nominated project area.

The attached list includes self-nominated individuals and Aboriginal organisations who may wish to register an interest in your project. Further consultation in accordance with the DECCW 2010 *Aboriginal cultural heritage consultation requirements for proponents* is required to identify the Aboriginal people on this list who may hold either cultural or historical knowledge relevant to determining the significance of Aboriginal objects and/or places within your proposed project area.

To ensure we can respond to enquiries promptly, please direct future correspondence to our central mailbox: [rog.hcc@environment.nsw.gov.au](mailto:rog.hcc@environment.nsw.gov.au).

Should you require any further information, please do not hesitate to contact us.

Kind regards,

Naomi Golightly  
Assistant Regional Operations Officer  
Hunter Central Coast Branch  
Regional Operations Division  
Office of Environment and Heritage  
Locked Bag 1002, Dangar, NSW 2309  
(Level 4/26 Honeysuckle Drive, Newcastle)  
T: 4927 3179  
M: 0472 876 146  
W: [www.environment.nsw.gov.au](http://www.environment.nsw.gov.au)

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

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL



Organisation	First name	Surname	Address 1	City	State	Post code	Landline	Mobile	Email
	Michelle	Saunders	24 Walhallow Village	CAROONA	NSW	2343		0458 516 775	<a href="mailto:michellesaunders@y7mail.com">michellesaunders@y7mail.com</a>
Hunter Valley Aboriginal Corporation	Rhonda	Griffiths	182 Bridge St	MUSWELLBROOK	NSW	2333	02 6543 1180	0429 989 878	<a href="mailto:h973809@bigpond.net.au">h973809@bigpond.net.au</a>
Lower Wonnaruah Tribal Consultancy Pty Ltd	Barry	Anderson	156 The Inlet Road	BULGA	NSW	2330	02 6574 5303	0417 403 153	
Wallagan Cultural Services	Maree	Waugh	PO Box 40	CESSNOCK	NSW	2325		0439 813 078	<a href="mailto:Mareewaugh30@hotmail.com">Mareewaugh30@hotmail.com</a>
Ungooroo Aboriginal Corporation	Alan	Paget	PO Box 3095	SINGLETON	NSW	2330	(02) 6571 5111		<a href="mailto:admin@ungooroo.com.au">admin@ungooroo.com.au</a>
Culturally Aware	Tracey	Skene	7 Crawford Place	MILFIELD	NSW	2325		0474 106 537	<a href="mailto:traceyamorrung-pa.com.au">traceyamorrung-pa.com.au</a>
Wonnarua Nation Aboriginal Corporation	Laurie	Perry	254 John St	SINGLETON	NSW	2330		0412 593 020	<a href="mailto:l.perry@optusnet.com.au">l.perry@optusnet.com.au</a>
Kauma Pondee Inc.	Jill	Green	Unit 6/1 Central Street	LAMBTON	NSW	2305		0434 210 190	<a href="mailto:kaumapondee@live.com.au">kaumapondee@live.com.au</a>
Jarban & Mugrebea	Les	Atkinson	11 Nelson Street	CESSNOCK	NSW	2325		0466 316 069	<a href="mailto:Les.atkinson@hotmail.com">Les.atkinson@hotmail.com</a>
Wonnarua Culture Heritage	Gordon	Griffiths	19 O'Donnell Crescent	METFORD	NSW	2323	02 4934 6437	0401 028 807	
Kawul Cultural Services	Vicky	Slater	33 Gardner Circuit	SINGLETON	NSW	2330		0421 077 521	<a href="mailto:Vicki.slater@hotmail.com">Vicki.slater@hotmail.com</a>
Jumbunna Traffic Management Group Pty Ltd	Norm	Archibald	17 Flobern Ave	WAUCHOPE	NSW	2446		0413 718 149	<a href="mailto:jtmanagement@live.com.au">jtmanagement@live.com.au</a>
Aliera French Trading	Aliera	French	23B Gommera St	BLACKSMITHS	NSW	2281		0421 299 963	<a href="mailto:Aliera.french.trading@hotmail.com">Aliera.french.trading@hotmail.com</a>
Gidawaa Walang & Barkuma Neighbourhood Centre Inc.	Ann Hickey	Debbie Dacey-Sullivan	76 Lang Street	KURRI KURRI	NSW	2327	02 4937 1094	Anne 0411 196 991	<a href="mailto:gidawaa.walang@hotmail.com">gidawaa.walang@hotmail.com</a>
Yarrowalk (A division of Tocomwall Pty Ltd), Tocomwall Pty Ltd on behalf of Scott Franks and Anor on behalf of the Plains Clans of the Wonnaru People NSD1680/2013	Scott	Franks	PO Box 76	CARRINGBAH	NSW	1495		0404 171 544	<a href="mailto:scott@tocomwall.com.au">scott@tocomwall.com.au</a>
Deslee Talbott Consultants	Deslee	Matthews	Unit 2 / 19 South Street	GUNNEDAH	NSW	2380		0431 205 336	<a href="mailto:m-desley@hotmail.com">m-desley@hotmail.com</a>
D F T V Enterprises	Derrick	Vale Snr	5 Mountbatten Close	RUTHERFORD	NSW	2320		0438 812 197	<a href="mailto:deckavale@hotmail.com">deckavale@hotmail.com</a>
Myland Cultural & Heritage Group	Warren	Schillings	30 Taurus Street	ELERMORE VALE	NSW	2287		0431 392 554	<a href="mailto:warren@yarnteen.com.au">warren@yarnteen.com.au</a>
Hunters & Collectors	Tania	Matthews	U211 Walowa St	NARRABRI	NSW	2390		0409 193 612	<a href="mailto:Tamatthews10@hotmail.com">Tamatthews10@hotmail.com</a>
AGA Services	Adam	Sampson	260 Hidden Valley Row	WYBONG	NSW	2333		0419 815 764	<a href="mailto:aga.services@hotmail.com">aga.services@hotmail.com</a>
	Steve	Talbott	73 Kiah Road	GILLIESTON HEIGHTS	NSW	2321		0429 662 911	<a href="mailto:gomerioi.namoi@outlook.com">gomerioi.namoi@outlook.com</a>
Cacatua Culture Consultants	Donna & George	Sampson	260 Hidden Valley Row	WYBONG	NSW	2333	02 4028 6942	0403 765 019 0434 877 016	<a href="mailto:cacatua4service@tpg.com.au">cacatua4service@tpg.com.au</a>
Divine Diggers Aboriginal Cultural Consultants	Deidre	Perkins	6 Ashleigh Street	HEDDON GRETA	NSW	2321	02 4937 4573	0425 654 290 preferred	<a href="mailto:dedemaree3@hotmail.com">dedemaree3@hotmail.com</a>
Crimson-Rosie	Jeffery	Matthews	6 Eucalypt Avenue	MUSWELLBROOK	NSW	2333	02 6543 4791		



Organisation	First name	Surname	Address 1	City	State	Post code	Landline	Mobile	Email
Wonnarua Elders Council	Richard	Edwards	PO Box 844	CESSNOCK	NSW	2325			
Lower Hunter Wonnarua Cultural Services	Lea-Anne Ball and Uncle Tommy Miller		51 Bowden Street	HEDDON GRETA	NSW	2321	02 4937 2694	0402 636 521 (Uncle)	<a href="mailto:tn.miller@southernphone.com.au">tn.miller@southernphone.com.au</a>
Lower Hunter Aboriginal Incorporated	David	Ahoy	5 Killara Drive	CARDIFF SOUTH	NSW	2285		0421 329 520	<a href="mailto:lowerhunterai@gmail.com">lowerhunterai@gmail.com</a>
Wattaka Wonnarua CC Service	Des	Hickey	4 Kennedy Street	SINGLETON	NSW	2330		0432 977 178	<a href="mailto:deshickey@bigpond.com">deshickey@bigpond.com</a>
Widescope Indigenous Group	Steven	Hickey	73 Russell Street	EMU PLAINS	NSW	2750		0425 232 056 0425 230 693	<a href="mailto:Widescope.group@live.com">Widescope.group@live.com</a>
Kawul Pty Ltd trading as Wonn1 Sites	Arthur	Fletcher	619 Main Road	GLENDALE	NSW	2285	02 4954 7751	0402 146 193	<a href="mailto:Wonn1sites@gmail.com">Wonn1sites@gmail.com</a>
Roger Matthews Consultancy	Roger	Matthews	15 Parkinson Avenue	MUSWELLBROOK	NSW	2333		0455 671 288	
Yinarr Cultural Services	Kathleen	Steward Kinchela	Lot 5 Westwood Estate	MERRIWA	NSW	2329		0475 436 589	<a href="mailto:yinarculturalservices@bigpond.com">yinarculturalservices@bigpond.com</a> <a href="mailto:dontminemeay@gmail.com">dontminemeay@gmail.com</a>
Hunter Traditional Owner	Paulette	Ryan	165 Susan Street	SCONE	NSW	2337		0431109001	<a href="mailto:hto.paulette@gmail.com">hto.paulette@gmail.com</a>

10<sup>th</sup> May 2017

**Attn: Danielle Wallace,**  
PO Box 379 West Ryde NSW 2114  
[dwallace@resourcestrategies.com.au](mailto:dwallace@resourcestrategies.com.au)  
(Sent by email)

**Re: Mount Pleasant Operation – Aboriginal Culture Heritage Assessment**

Dear Danielle,

Thank you for your letter dated 4<sup>th</sup> May 2017 relating to the above subject.

Wanaruah Local Aboriginal Land Council wishes to be consulted on these matters.

Please find attached a list of Registered Aboriginal Parties who may also wish to be included in this consultation process.

Please do not hesitate to contact Wanaruah LALC should you require any further information or assistance in this venture.

We look forward to working with you in the future.

Regards

Renee MacDonald  
Administration Officer  
Wanaruah Local Aboriginal Land Council





Organisation	Contact	Address 1	City	Phone	Mobile	Email	Alternative Address
Aboriginal Native Title Elders Consultants	Margaret Matthews	4 Calgaroo Avenue	Muswellbrook, NSW 2333		041 158 2874		
Aliera French Trading	Aliera French	12 Haydon Street	Muswellbrook, NSW 2333	(02) 6541 2765	0421 299 963	<a href="mailto:Aliera.french.trading@hotmail.com">Aliera.french.trading@hotmail.com</a>	
Black Creek Aboriginal Corporation	Tracey White	PO Box 168	Kurri Kurri, NSW 2327	(02) 4990 6747		<a href="mailto:blackcreek@idl.net.au">blackcreek@idl.net.au</a>	
Bullen Bullen	Loyd Mathews	16B Mahogany Avenue	Muswellbrook, NSW 2333		0417 725 956		
Cacatua Culture Consultants	Donna & George Sampson	Unit 1b/11 Glenwood Dr	Thornton, NSW 2322	(02) 4028 6942 (02) 4028 6943	0403 765 019 0434 877 016	<a href="mailto:cacatua@resetsdsl.net.au">cacatua@resetsdsl.net.au</a>	
Carrawonga Consultants	Cheryl Moodie & Justin Mathews	11 Coolibah Close	Muswellbrook, NSW 2333		0411 958 511 0401 154 328		
Culturally Aware	Tracey Skene	7 Crawford Place	Millfield, NSW 2325			<a href="mailto:tracey@marrung-pa.com.au">tracey@marrung-pa.com.au</a>	
D F T V Enterprises	Derrick Vale Sr	11/97 Brooke Street	Muswellbrook, NSW 2333		0438 812 197	<a href="mailto:deckavale@hotmail.com">deckavale@hotmail.com</a>	5 Mountbatten Close, Rutherford NSW 2320
Deslee Talbott Consultants	Deslee Matthews	Unit 2/19 South Street	Gunnedah NSW 2380		0431 205 336		
Gidawaa Walang & Barkuma Neighbourhood Centre	Debbie Dacey-Sullivan	76 Lang Street	Kurri Kurri, NSW 2327	(02) 4937 1094	0411 196 991	<a href="mailto:gidawaa.walang@hotmail.com">gidawaa.walang@hotmail.com</a>	
Giwiirr Consultants	Michele Stair	8 Fitzgerald Avenue	Muswellbrook, NSW 2333	(02) 6541 0506	0432 214 402		
Hunter Traditional Owner	Paulette Ryan	14 Barton Avenue	Singleton Heights	(02) 6474 4906	0432 672 273		
Hunter Valley Aboriginal Corporation	Rhonda Griffith	PO Box 579	Muswellbrook, NSW 2333				
Hunter Valley Cultural Consultants	Christine Matthews	40 Humphries Street	Muswellbrook, NSW 2333	(02) 6543 4521	0438 390 882		
Hunter Valley Cultural Surveying	Luke Hickey	165 Susan Street	Scone, NSW 2337	(02) 6541 0525	0402 446 223 0423 930 690	<a href="mailto:hvcs@bigpond.com">hvcs@bigpond.com</a>	
Hunter Valley Environment Land & Mining Services	Des Hickey	4 Kennedy Street	Singleton NSW 2330		0432 977 178	<a href="mailto:valleyelmcop@bigpond.com">valleyelmcop@bigpond.com</a>	
						<a href="mailto:deshickey@bigpond.com">deshickey@bigpond.com</a>	
Hunter Valley Natural & Cultural Resources	David French	10 Mill Street	Muswellbrook, NSW 2333				
Indigenous Outcomes	Robert Smith	33 Clif Street	Heddon Greta, NSW 2321		0402 679 809	<a href="mailto:cki23701@bigpond.net.au">cki23701@bigpond.net.au</a>	
Jarban + Mugrebea	Les Atkinson	11 Nelson Street	Cessnock, NSW 2325		0402 353 317	<a href="mailto:les.atkinson@hotmail.com">les.atkinson@hotmail.com</a>	
	Jeff Matthews	6 Eucalypt Avenue	Muswellbrook, NSW 2333	(02) 6543 4791			
Kawul Cultural Services	Vicky Slater	Po Box 817	Singleton, NSW 2330		0431 720 887		
Kayaway	Mark Hickey	6/20-22 Government Rd	Thornton, NSW 2322		0423 829 335	<a href="mailto:kayaway@rocketmail.com">kayaway@rocketmail.com</a>	
Lower Hunter Wonnarua Council Inc	Lea-Anne Ball Uncle Tommy Miller	51 Bowden Street	Heddon Greta, NSW 2321	(02) 4937 2694	0447 266 590 0402 636 521	<a href="mailto:tn.miller@southernphone.com.au">tn.miller@southernphone.com.au</a> lea-anne.ball@bigpond.com	
Lower Wonnaruah Tribal Consultancy Pty Ltd	Barry Anderson	156 The Inlet RD	Bulga, NSW 2330		0417 403 153	<a href="mailto:barry156@bigpond.com">barry156@bigpond.com</a>	
Mingga Consultants	Clifford Matthews	11 Coolibah Close	Muswellbrook, NSW 2333	(02) 6541 0751	0421 942 902		
Mooki Plains Management	Stephen Matthews	28 Herbert Street	Gunnedah NSW 2380	(02) 6742 5563			
Mooki Plains Management	Les Field	4 Hinton Dr	Gunnedah NSW 2380	(02) 6742 5563			
Muswellbrook Cultural Consultants	Brian Horton	10 Scott Steet	Muswellbrook, NSW 2333				
Ngarramang-Kuri Aboriginal Culture & Heritage Group	Abie Wright	21 Bancroft Street	Glendale, NSW 2285		0466 589 238	<a href="mailto:abie@yarnteen.com.au">abie@yarnteen.com.au</a>	
Roger Noel Matthews Consultancy	Roger Noel	15 Parkinson Avenue	Muswellbrook, NSW 2333				
	Scott Smith	Unit 4 122 Upper Street	Tamworth NSW 2340		0403 139 411		
St Clair Singleton Aboriginal Corporation	Cultural Heritage Officer	PO Box 710	Singleton, NSW 2330				
T & G Culture Consultants		19 O'Donnell Cres	Metford, NSW 2323		0428 147 417		
Ungooroo Cultural & Community Services	Rhonda Ward	8 Blaxland Avenue	Singleton, NSW 2330		0450 754 199	<a href="mailto:ungooroo59@hotmail.com">ungooroo59@hotmail.com</a>	
Ungooroo Aboriginal Corporation	Alan Paget & Sarah Hall	PO Box 3095	Singleton, NSW 2330	(02) 6571 5111		<a href="mailto:admin@ungooroo.com.au">admin@ungooroo.com.au</a>	
	Melissa & Darrel Matthews						
Upper Hunter Heritage Consultants		14 Edinglassie Avenue	Muswellbrook, NSW 2333	(02) 6541 3532	0439 556 641		
				(02) 6572 1889			
Upper Hunter Wonnarua Council Inc	Rhonda Perry & Georgina	17/174 John Street	Singleton, NSW 2330	(02) 6572 1500			
Valley Culture,	Larry Van Vliet	140 Sydney Street	Muswellbrook, NSW 2333		0417 725 965		
Wanaruah Custodians	Barbara Foot	35 Acacia Circuit	Singleton, NSW 2330	(02) 6573 1712	0421 151 650		
Wanaruah Loacal Aboriginal Land Council		PO Box 127	Muswellbrook, NSW 2333	(02) 6543 1288		<a href="http://wanaruah.hunterlink.net.au">wanaruah.hunterlink.net.au</a>	
				(02) 6573 3786			
Wattaka Wonnarua C.C. Service	Des Hickey	4 Kennedy Street	Singleton, NSW 2330	(02) 6571 2609	0432 977 178	<a href="mailto:deshickey@bigpond.com">deshickey@bigpond.com</a>	
Widescope Indigenous Group Pty Ltd	Amanda Hickey	73 Russell Street	Emu Plains, NSW 2750		0416 643 226	<a href="mailto:widescope.group@live.com">widescope.group@live.com</a>	
Wonn 1 Contracting	Arthur Fletcher	619 Main Rd	Glendale, NSW 2285	(02) 4954 7751	0402 146 196	<a href="mailto:wonn1sites@gmail.com">wonn1sites@gmail.com</a>	
Wonnarua Culture Heritage	Gordon Griffiths	19 O'Donnell Crescent	Metford, NSW 2323	(02) 4934 6437	0401 028 807		
Wonnarua Nation Aboriginal Corporation	Laurie Perry	PO Box 3066	Singleton, NSW 2330	(02) 6571 5419	0412 593 020		
Wonnaruah Elders Council	Uncle Tommy Miller	PO Box 184	Singleton NSW 2330				
Tocomwall	Scott Franks					<a href="mailto:scott@tocomwall.com.au">scott@tocomwall.com.au</a>	

Yinarr Cultural Services	Kathleen Steward	111 Westwood Rd	Gungal, NSW 2333	(02) 6547 6077	0432 720 623	<a href="mailto:yinarrculturalservices@bigpond.com">yinarrculturalservices@bigpond.com</a>	
	Alison Sampson	36 Hill Street	Caroona, NSW 2343		0401 151 124 0434 642 004	<a href="mailto:Allieat29@hotmail.com">Allieat29@hotmail.com</a>	
Devine diggers Aboriginal Cultural Consultants	Deidre Perkins	6 Ashleigh Street	Heddon Greta, NSW 2321	(02) 4937 4573	0425 654 290	<a href="mailto:divinediggers@bigpond.com">divinediggers@bigpond.com</a>	
DRM Cultural Management	Helen Faulkner	81 Wansbeck Valley Rd	Cardiff, NSW 2285		0412 369 661		
Esther Tighe		1/86 Edward Street	Gunnedah NSW 2380	(02) 6742 7105	0422 648 350		
Griffiths Group	Priscilla Priestley	7 Yeoman Avenue	Metford, NSW 2323		0422 651 752		
Lower Hunter Aboriginal Incorporated	Les Ahoy	74 Hayden Brook Rd	Booragul, NSW 2284		0411 095 249	<a href="mailto:Lowerhunterai@gmail.com">Lowerhunterai@gmail.com</a>	
	Michelle Saunders	24 Walhallow Village	Walhallow, NSW 2343				
Mindaribba Local Aboriginal Land Council		PO Box 401	East Maitland, NSW 2323	(02) 4934 8511	0402 927 449		
Murrawan Cultural Consultants Pty Ltd	Robert Smith	33 Clif Street	Heddon Greta, NSW 2321		0402 679 809	<a href="mailto:murrawancc@gmail.com">murrawancc@gmail.com</a>	
Moreeites	Susan Cutmore	Unit 11/97 Brook Street	Muswellbrook, NSW 2333		0411 570 568	<a href="mailto:Suewong58@hotmail.com">Suewong58@hotmail.com</a>	
Myland Cultural & Heritage Group	Warren Schillings	30 Taurus Street	Elmore Vale, NSW 2287		0431 392 554	<a href="mailto:warren@yamuloong.com">warren@yamuloong.com</a>	
	Ron Smith	Flat 8 6 Hastings River Dr	Port Macquarie, NSW 2444		0401 167 950	<a href="mailto:scottosmith@live.com.au">scottosmith@live.com.au</a>	
	Roslyn Sampson	Unit 4 122 Upper Street	Tamworth NSW 2340		0403 139 411	<a href="mailto:Laurarose2010@live.com.au">Laurarose2010@live.com.au</a>	
	Rebecca Lester	297 Pioneer Rd	Singleton, NSW 2330		0423 044 586	<a href="mailto:Sandra_rebecca@yahoo.com">Sandra_rebecca@yahoo.com</a>	
Waabi Gabinya Cultural Consultancy	Elizabeth Howard	19 Foley Street	Muswellbrook, NSW 2333		0439 813 078	<a href="mailto:waabigabinyacc@hotmail.com">waabigabinyacc@hotmail.com</a>	
Wallagan Cultural Services	Maree Waugh	PO Box 40	Cessnock, NSW 2325		0439 813 078	<a href="mailto:Mareewaugh30@hotmail.com">Mareewaugh30@hotmail.com</a>	
Warrigal Cultural Services	Aaron Slater	PO Box 1095	Singleton, NSW 2330		0478 844 530	<a href="mailto:Warragil_c.s@hotmail.com">Warragil_c.s@hotmail.com</a>	
Smith Dhagaans Cultural group	Tim Smith	46 Springvale Cct	Cameron Park, NSW 2285		0401 100 708	<a href="mailto:Smith.Dhagaans@hotmail.com">Smith.Dhagaans@hotmail.com</a>	
	Steven Saunders	35 Walhallow Village	Caroona, NSW 2343		0487 192 486		
Thawan Heritage Consultant	Jennifer Hampton	35 Larool Street	Tamworth NSW 2340		0428 540 646	<a href="mailto:thawanheritageconsultant@hotmail.com">thawanheritageconsultant@hotmail.com</a>	
	Trevor Robinson	PO Box 73	Peak Hill, NSW 2869				
Wurrumay Consultants	Kerrie Slater	PO Box 817	Singleton, NSW 2330		0423 935 556	<a href="mailto:wurrumay@hotmail.com">wurrumay@hotmail.com</a>	
J & A Leonardi		69 Nelson Street	Barnsley, NSW 2278	(02) 4955 2136			
	Stephen Talbot	28a Kiah Rd	Gillieston Heights, NSW 2321		0429 662 911	<a href="mailto:gomerioi.namoi@outlook.com">gomerioi.namoi@outlook.com</a>	
Wonnarua Traditional Custodian	Des Hickey	4 Kennedy Street	Singleton, NSW 2330			<a href="mailto:Wonnaruatraditionalcustodians@yahoo.com.au">Wonnaruatraditionalcustodians@yahoo.com.au</a>	
	Barry French	12 Haydon Street	Muswellbrook, NSW 2333		040 146 0322		
	Mandy Howard				045 959 0934	<a href="mailto:Amanda.howard@hnehealth.nsw.gov.au">Amanda.howard@hnehealth.nsw.gov.au</a>	
JLC Cultural Services	Jenny-Lee Chambers	33 Goulburn Drive	Sandy Hollow, 2333		043 208 7829	<a href="mailto:jlculturalservices@gmail.com">jlculturalservices@gmail.com</a>	
	Warren Taggart				042 755 4211	<a href="mailto:warrentaggart@bigpond.com">warrentaggart@bigpond.com</a>	
Giwiirr Consultants	Rodney Matthews			02 6541 0506	044 750 6339	<a href="mailto:bigrodshouse@hotmail.com">bigrodshouse@hotmail.com</a>	
	Glen Morris			02 6543 3008			
	David Horton				040 040 0592		

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**From:** Kim Manwarring [Kim.Manwarring@muswellbrook.nsw.gov.au]  
**Sent:** Wednesday, 24 May 2017 10:29 AM  
**To:** Danielle Wallace  
**Cc:** Scott Brooks  
**Subject:** FW: MACH Energy Aboriginal Cultural Heritage Assessment Correspondence  
**Attachments:** MACH Energy - Registration of Aboriginal Interest Groups for Cultural Heritage Assessment.pdf

Good Morning Danielle

Thankyou for your correspondence.

We have forwarded this onto Wanaruah Local Aboriginal Land Council as well as Hunter Valley Aboriginal Corporation for their information and consultation with interested Members.

We note that the closing date was yesterday.

Regards

Kim

**Kim Manwarring**  
**Community Worker**

Direct: 02 6549 3764  
Mobile: 0408 978 512

[www.muswellbrook.nsw.gov.au](http://www.muswellbrook.nsw.gov.au)

*I respectfully acknowledge the local Aboriginal people who are the Traditional Owners and Custodians of the land on which I work.*



explore [www.workingwithatsi.info](http://www.workingwithatsi.info)

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**From:** Kim Manwarring  
**Sent:** Wednesday, 24 May 2017 10:20 AM  
**To:** 'Manager@hvabcorp.org.au'; Noel Downs ([ceo.wanaruah@bigpond.com](mailto:ceo.wanaruah@bigpond.com)); Wanaruah Admin ([admin.wanaruah@bigpond.com](mailto:admin.wanaruah@bigpond.com))  
**Cc:** Scott Brooks  
**Subject:** MACH Energy Aboriginal Cultural Heritage Assessment Correspondence

Good Morning Ross and Noel

Please find attached correspondence Council has received from MACH Energy.

Council apologises for the lateness in providing this correspondence to you.

We are hoping that your organisations and members have been directly consulted with regarding the preparation of the Aboriginal Cultural Heritage Assessment.

Regards

26 May 2017

11-13 Mansfield Street  
Glebe NSW 2037  
PO Box 112, Glebe NSW 2037  
P. 02 9562 6327 F. 02 9562 6350

MACH Energy Australia Pty Ltd  
C/- Danielle Wallace  
PO Box 379  
WEST RYDE NSW 2114

Dear Danielle

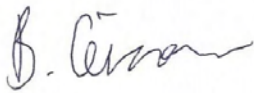
**Re: Request - Search for Registered Aboriginal Owners**

I refer to your letter dated 4 May 2017 regarding Aboriginal Cultural Heritage Assessment within the area of Muswellbrook, NSW.

I have searched the Register of Aboriginal Owners and the project area described *does not appear* to have Registered Aboriginal Owners pursuant to Division 3 of the *Aboriginal Land Rights Act 1983 (NSW)*.

I suggest that you contact the Wanaruah Local Aboriginal Land Council on 02 6543 1288. They will be able to assist you in identifying other Aboriginal stakeholders for this project.

Yours sincerely



Bianca Ceissman  
**Administration Support Officer**  
Office of the Registrar, *Aboriginal Land Rights Act 1983 (NSW)*



## **STEP 2 CORRESPONDENCE**

29 May 2017

Michelle Saunders  
24 Walhallow Village  
CAROONA NSW 2343

Dear Michelle,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

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Should you wish to register an interest in the community consultation process described above, could you please provide your details before **5.00pm on Friday 16 June 2017** to MACH Energy via the following contact details:

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

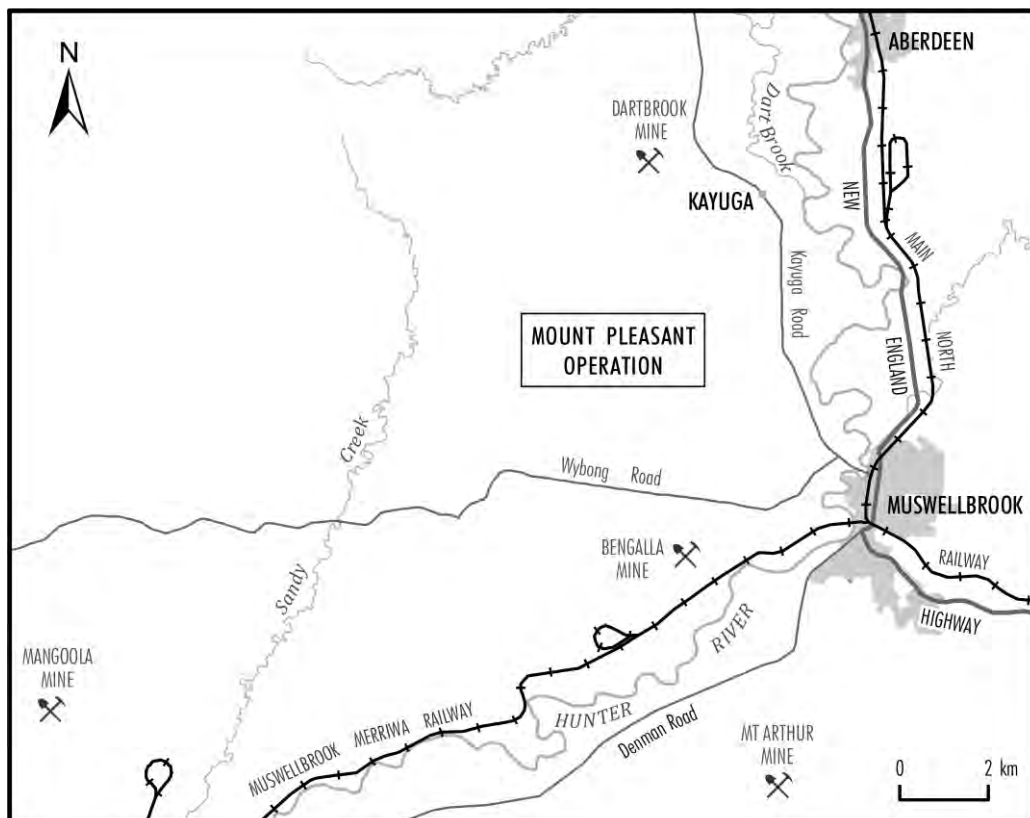
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Kauma Pondee Inc.  
Jill Green  
Unit 6/1 Central Street  
LAMBTON NSW 2305

Dear Jill,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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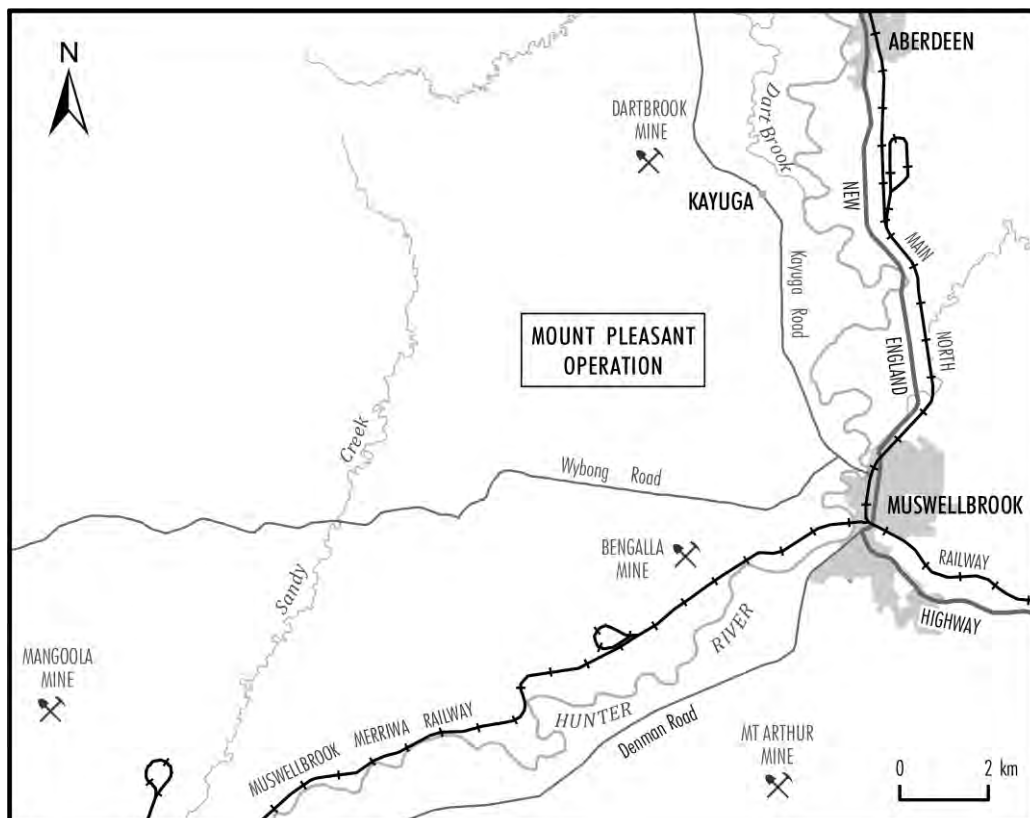
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hunters & Collectors  
Tania Matthews  
U211 Walowa Street  
NARRABRI NSW 2390

Dear Tania,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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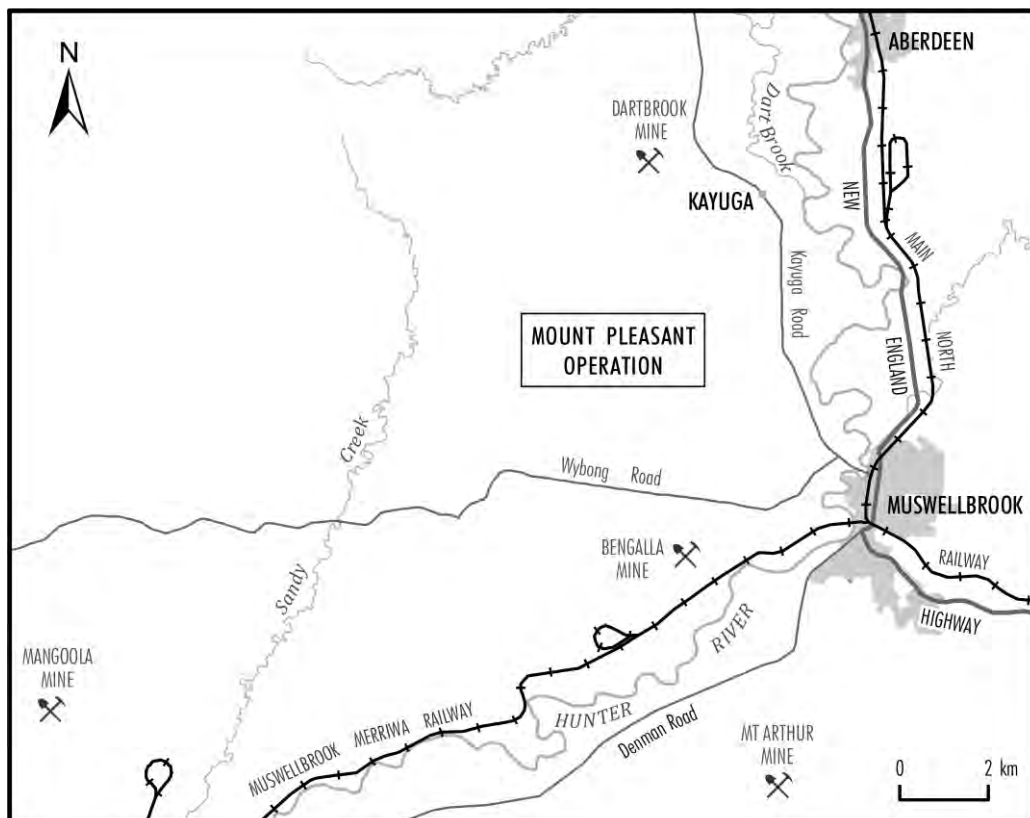
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Black Creek Aboriginal Corporation  
Tracey White  
PO Box 168  
KURRI KURRI NSW 2327

Dear Tracey,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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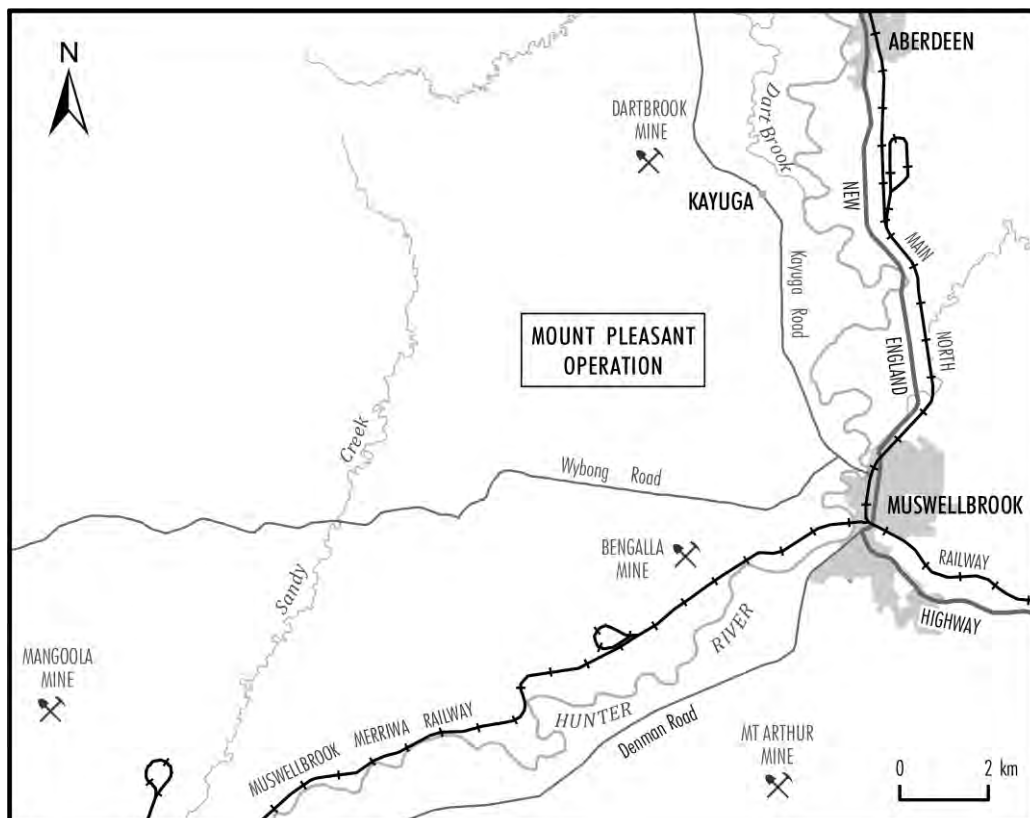
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hunter Valley Environment Land & Mining Services  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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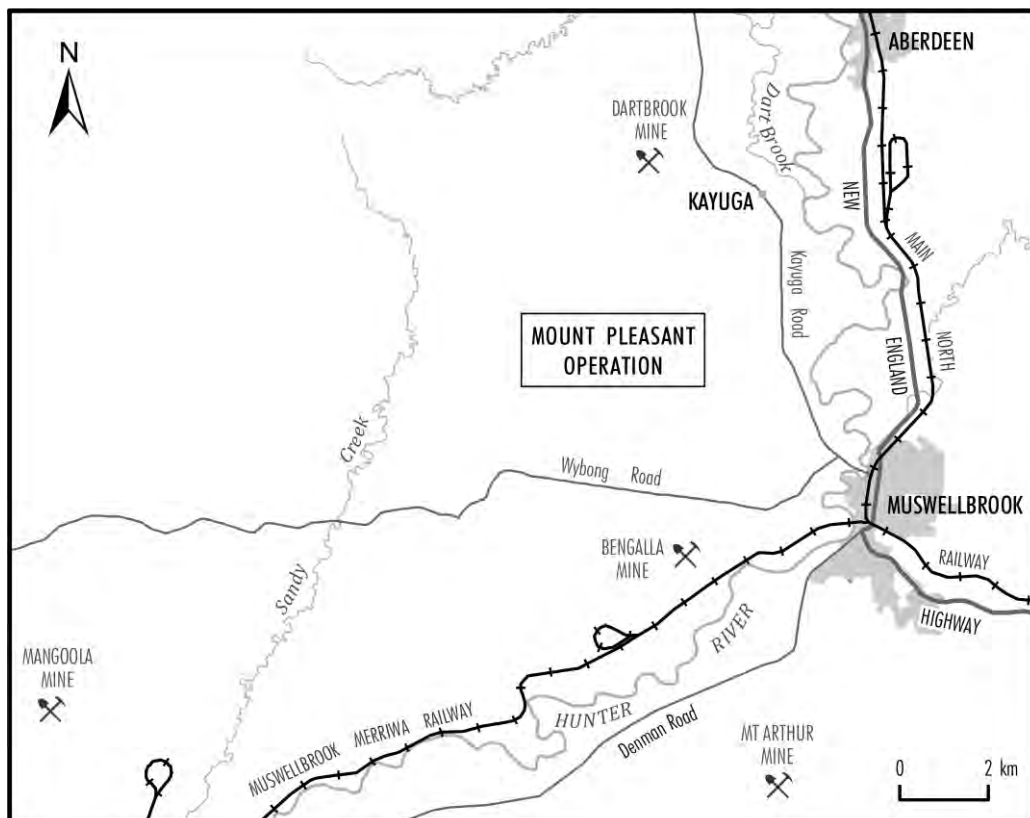
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Mooki Plains Management  
Stephen Matthews  
28 Herbert Street  
GUNNEDAH NSW 2380

Dear Stephen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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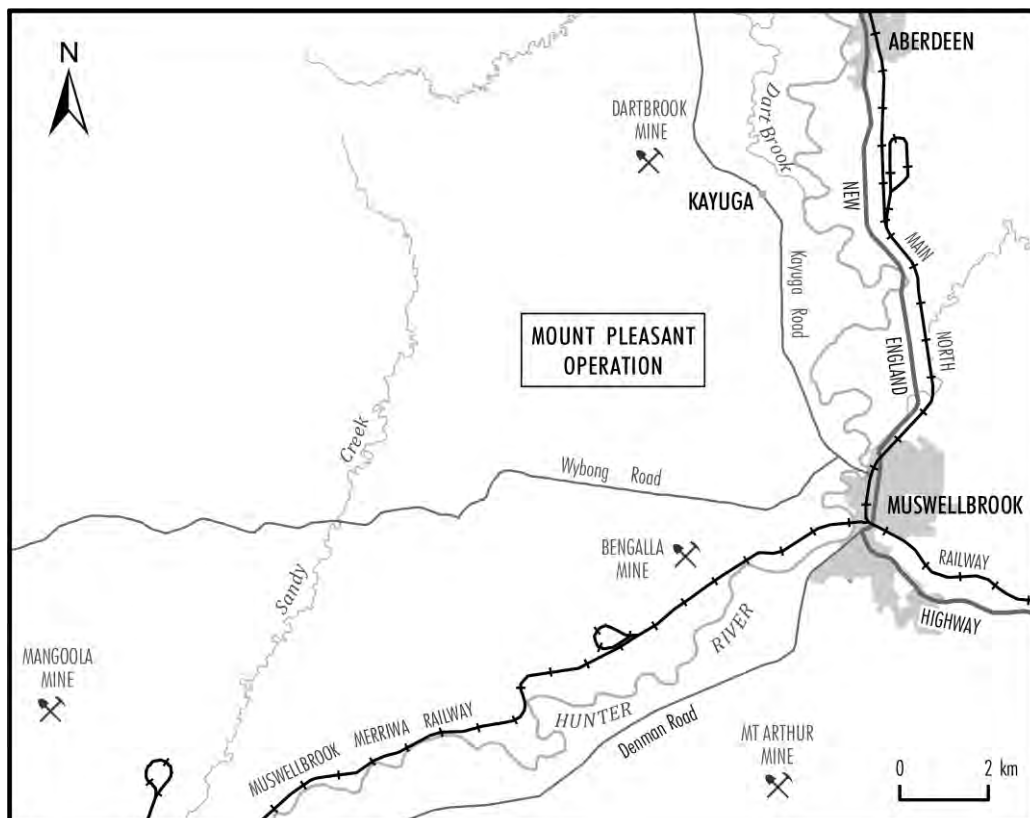
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Ngarramang-Kuri Aboriginal Culture & Heritage Group  
Abie Wright  
21 Bancroft Street  
GLENDALE NSW 2285

Dear Abie,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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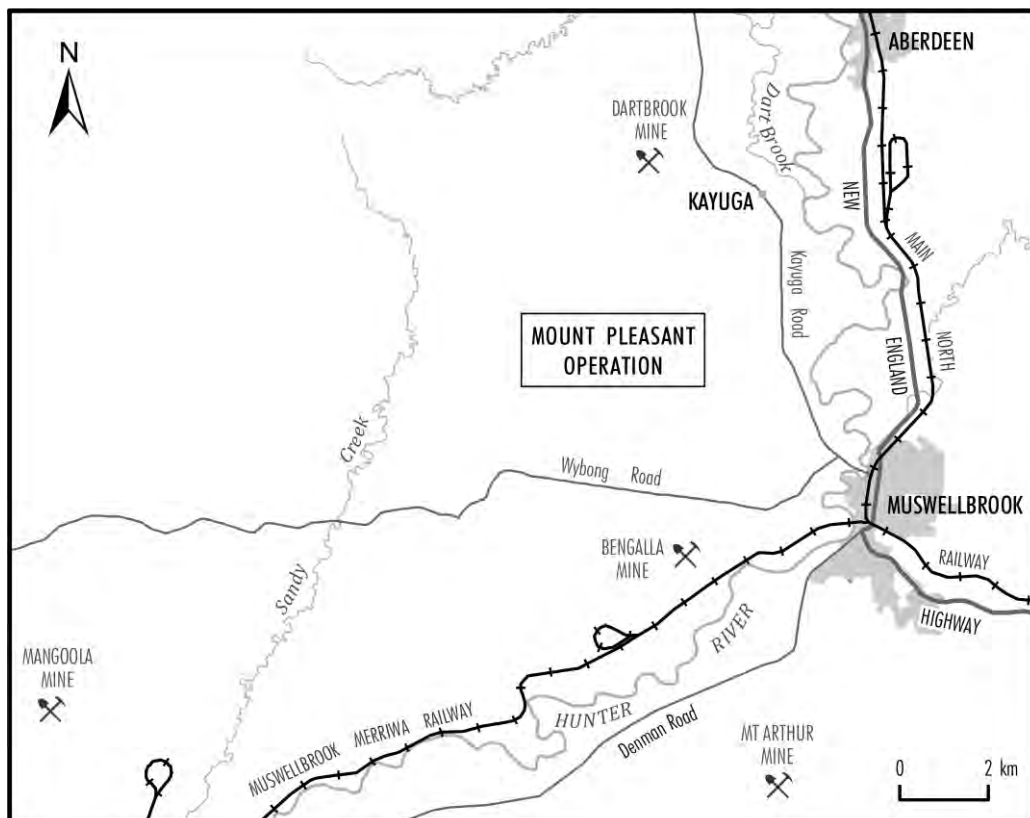
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Scott Smith  
Unit 4/122 Upper Street  
TAMWORTH NSW 2340

Dear Scott,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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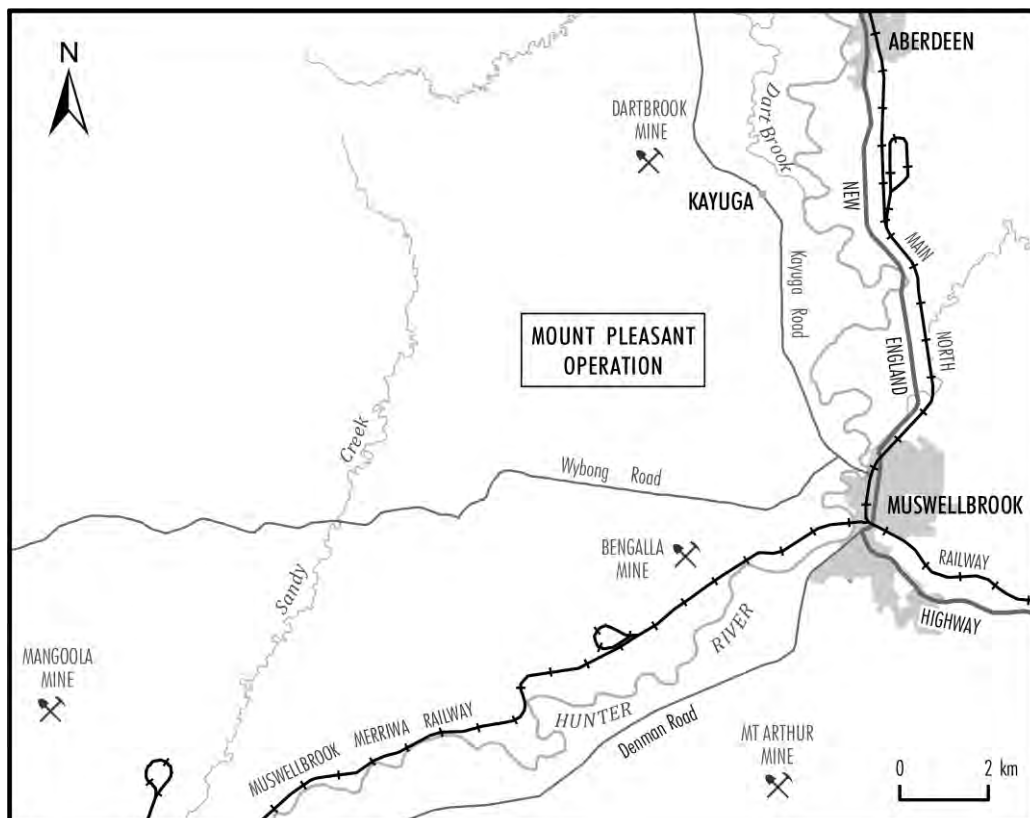
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

St Clair Singleton Aboriginal Corporation  
Cultural Heritage Officer  
PO Box 710  
SINGLETON NSW 2330

Dear Cultural Heritage Officer,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
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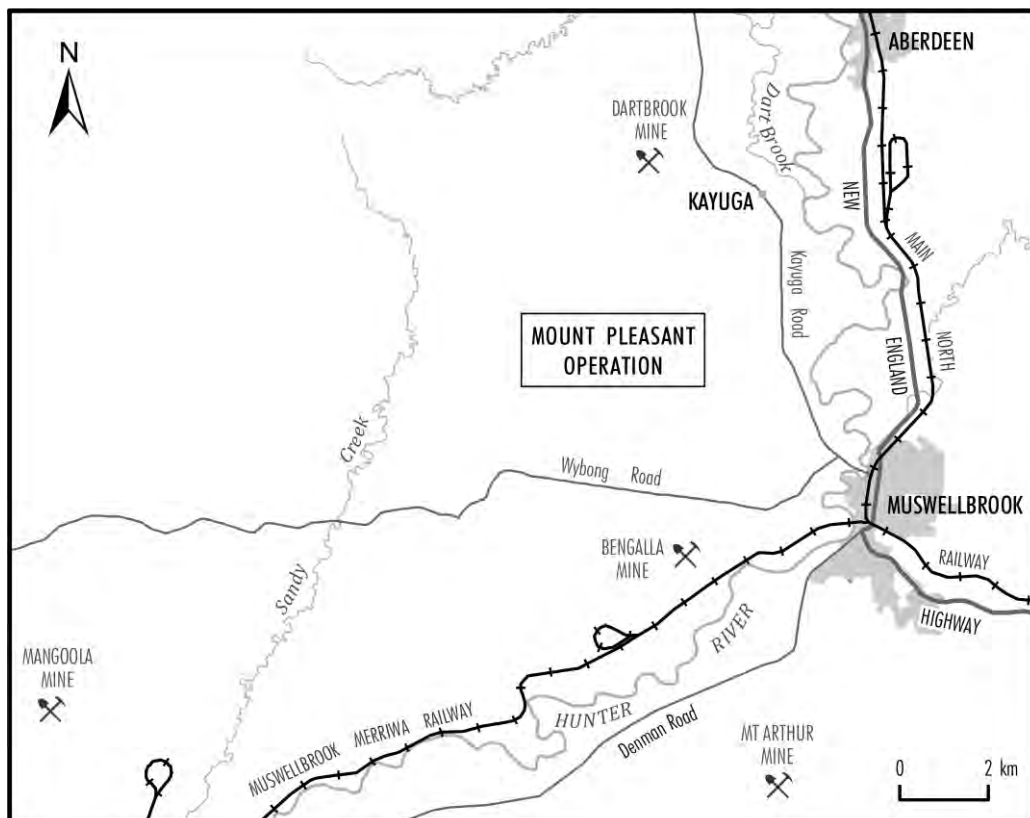
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Alison Sampson  
36 Hill Street  
CAROONA NSW 2343

Dear Alison,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

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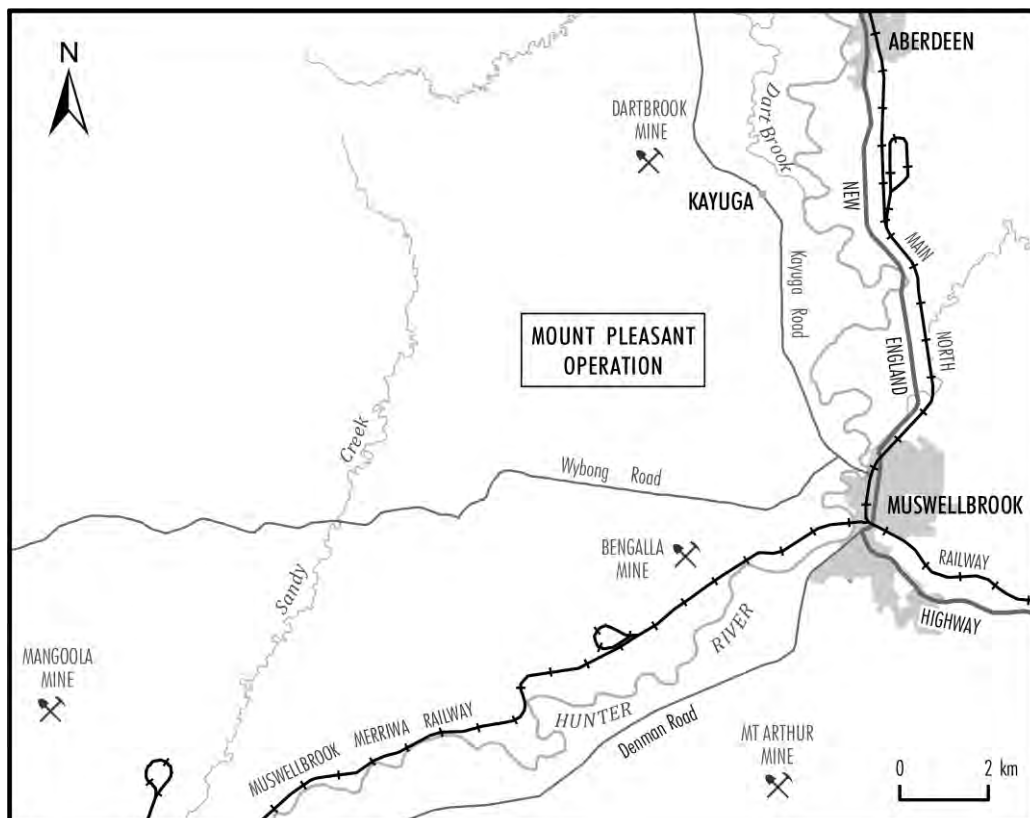
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Griffiths Group  
Priscilla Priestley  
7 Yeoman Avenue  
METFORD NSW 2323

Dear Priscilla,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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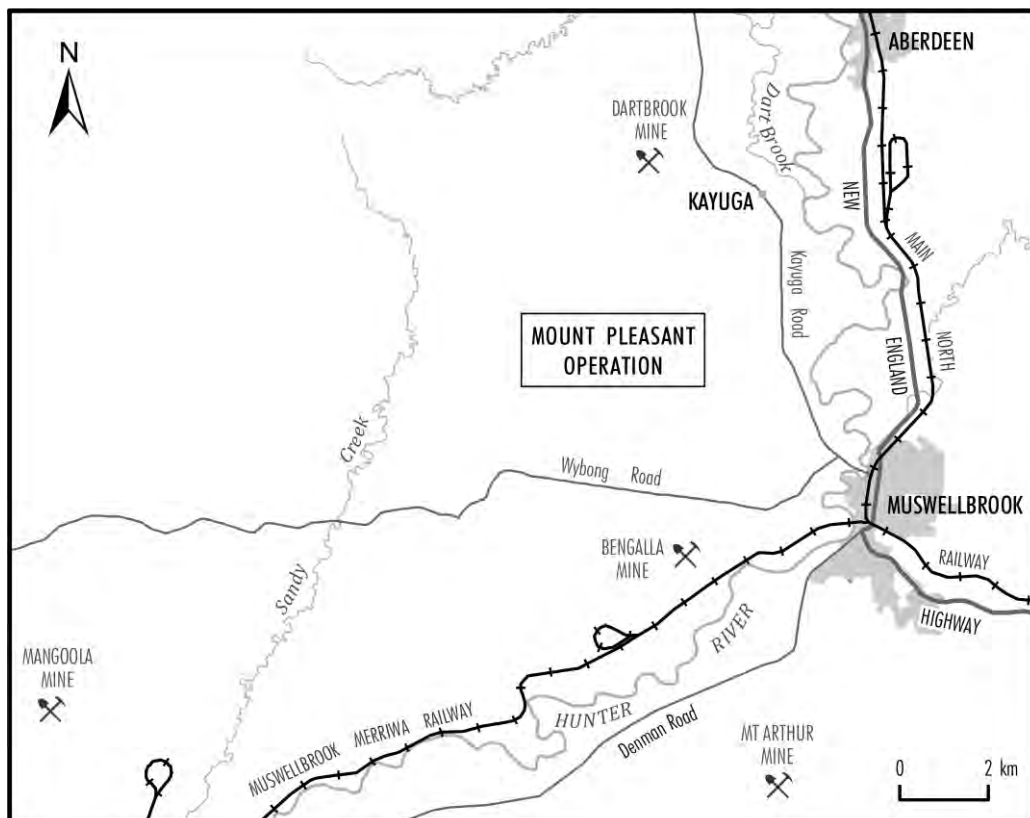
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Mindaribba Local Aboriginal Land Council  
PO Box 401  
EAST MAITLAND NSW 2323

Dear Sir/Madam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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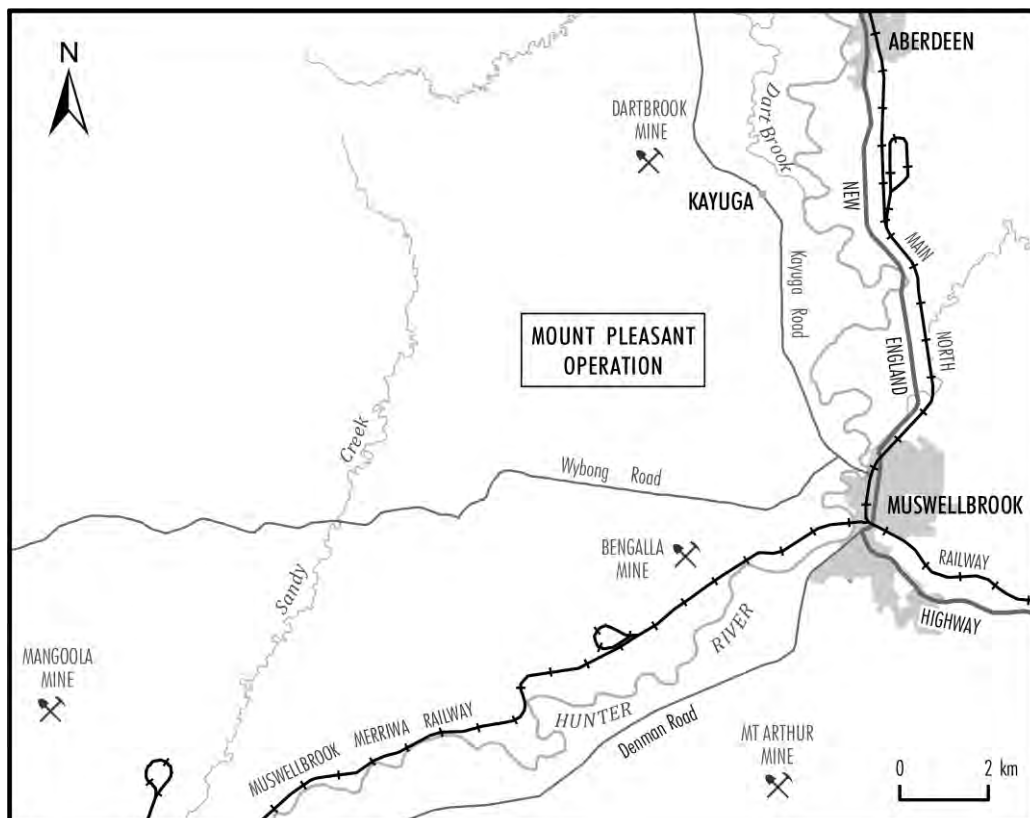
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Ron Smith  
Flat 8/6 Hastings River Drive  
PORT MACQUARIE NSW 2444

Dear Ron,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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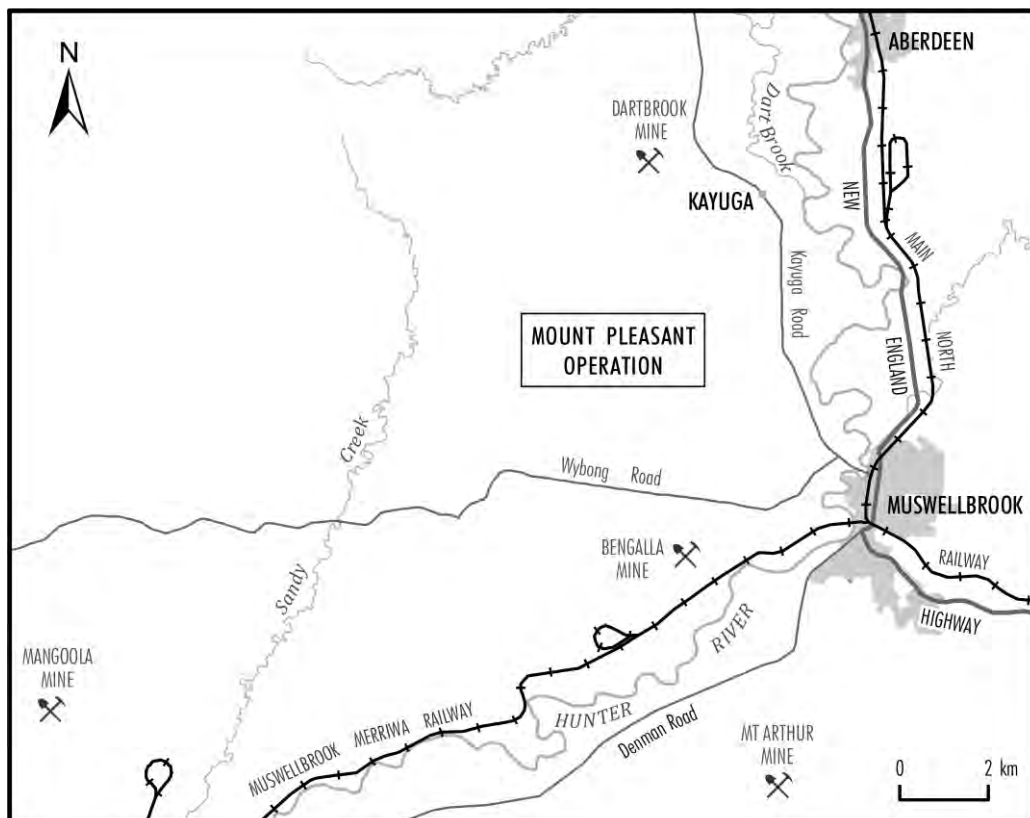
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Roslyn Sampson  
Unit 4/122 Upper Street  
TAMWORTH NSW 2340

Dear Roslyn,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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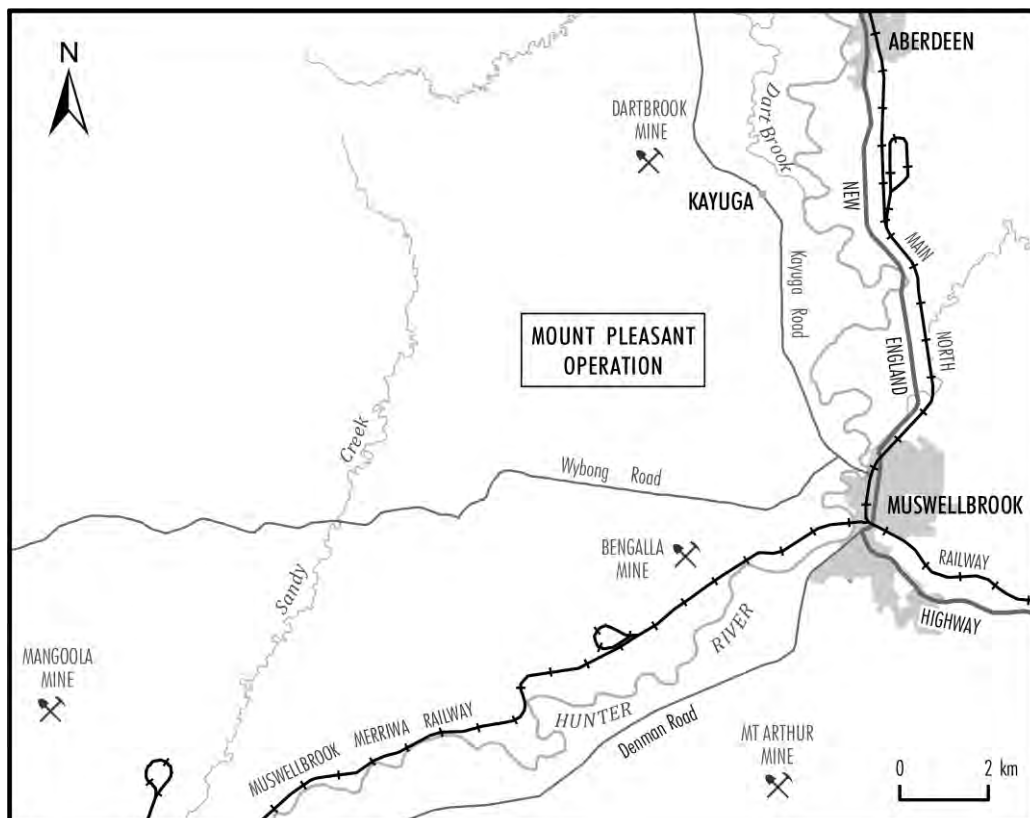
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Warrigal Cultural Services  
Aaron Slater  
PO Box 1095  
SINGLETON NSW 2330

Dear Aaron,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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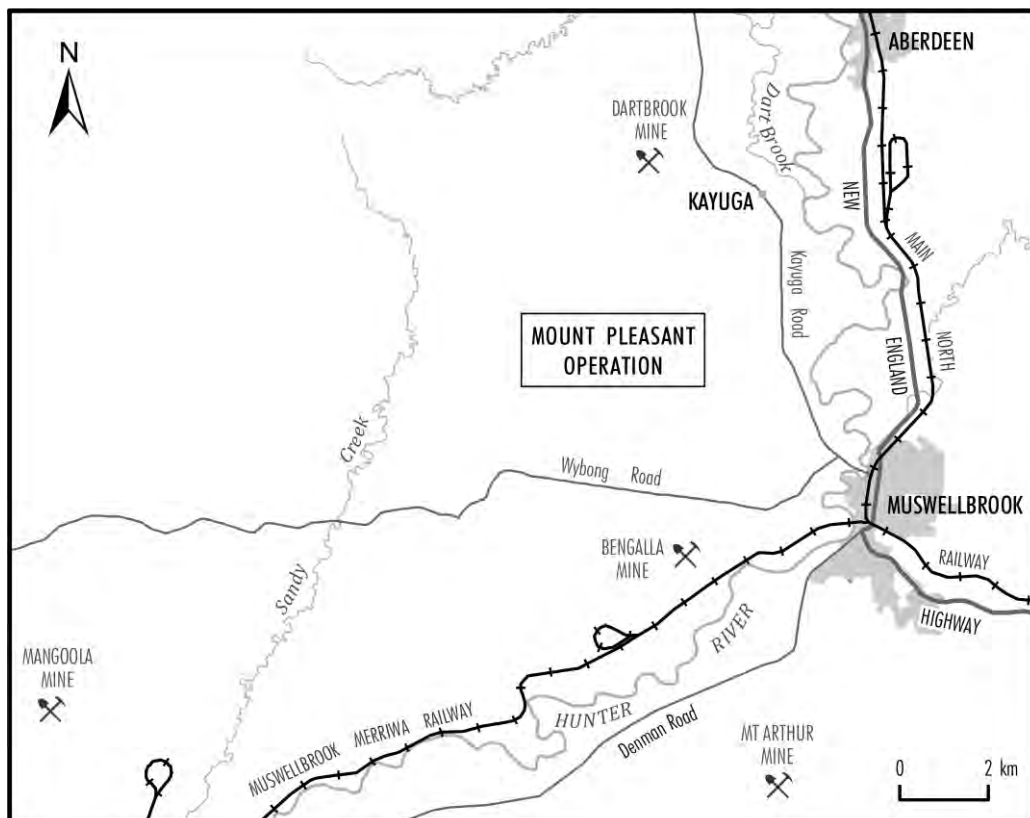
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Steven Saunders  
35 Walhallow Village  
CAROONA NSW 2343

Dear Steven,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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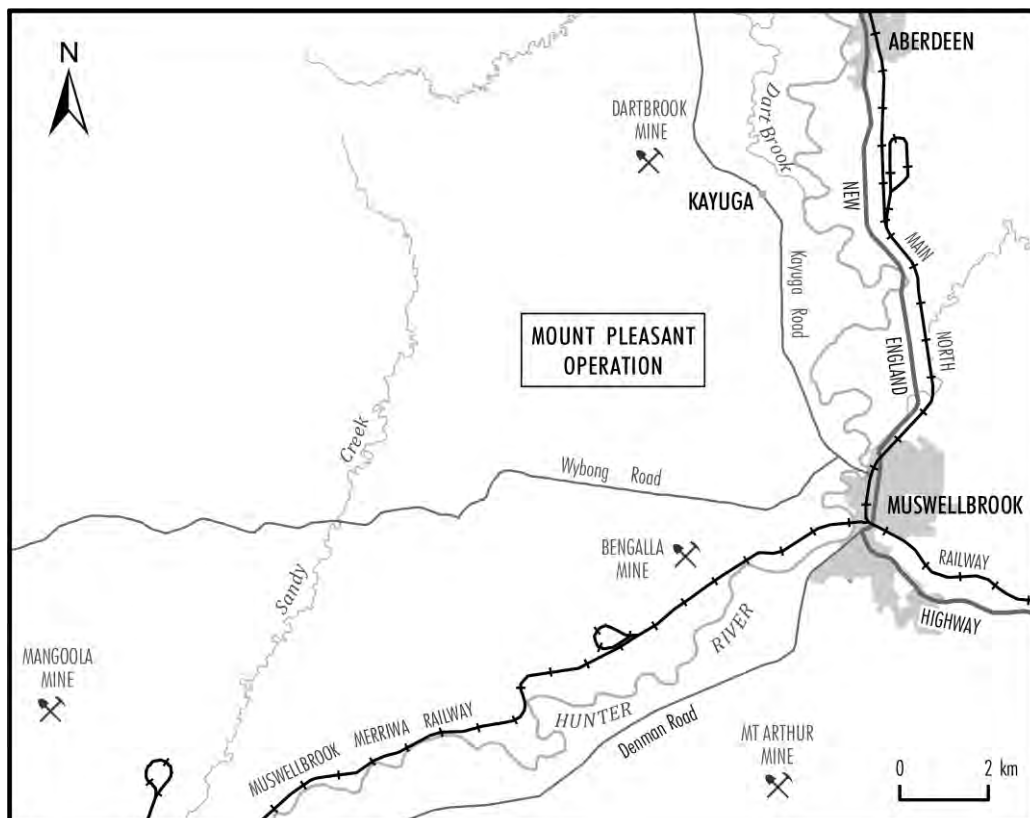
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Thawan Heritage Consultant  
Jennifer Hampton  
35 Larool Street  
TAMWORTH NSW 2340

Dear Jennifer,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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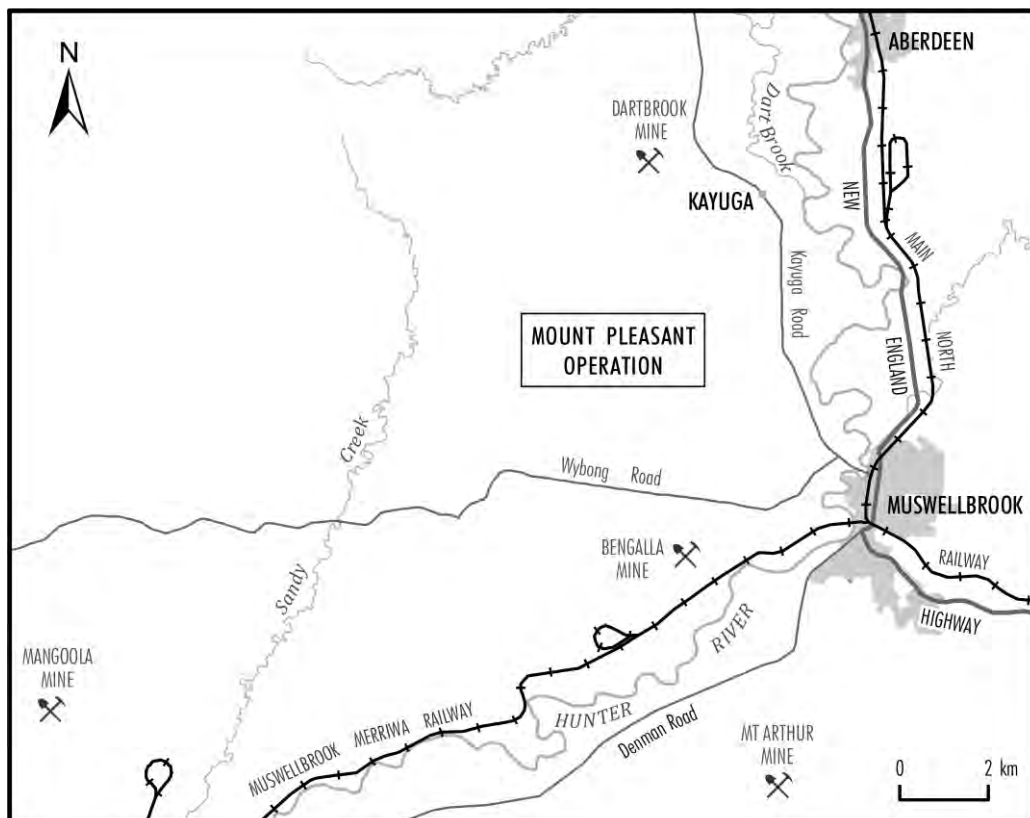
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Trevor Robinson  
PO Box 73  
PEAK HILL NSW 2869

Dear Trevor,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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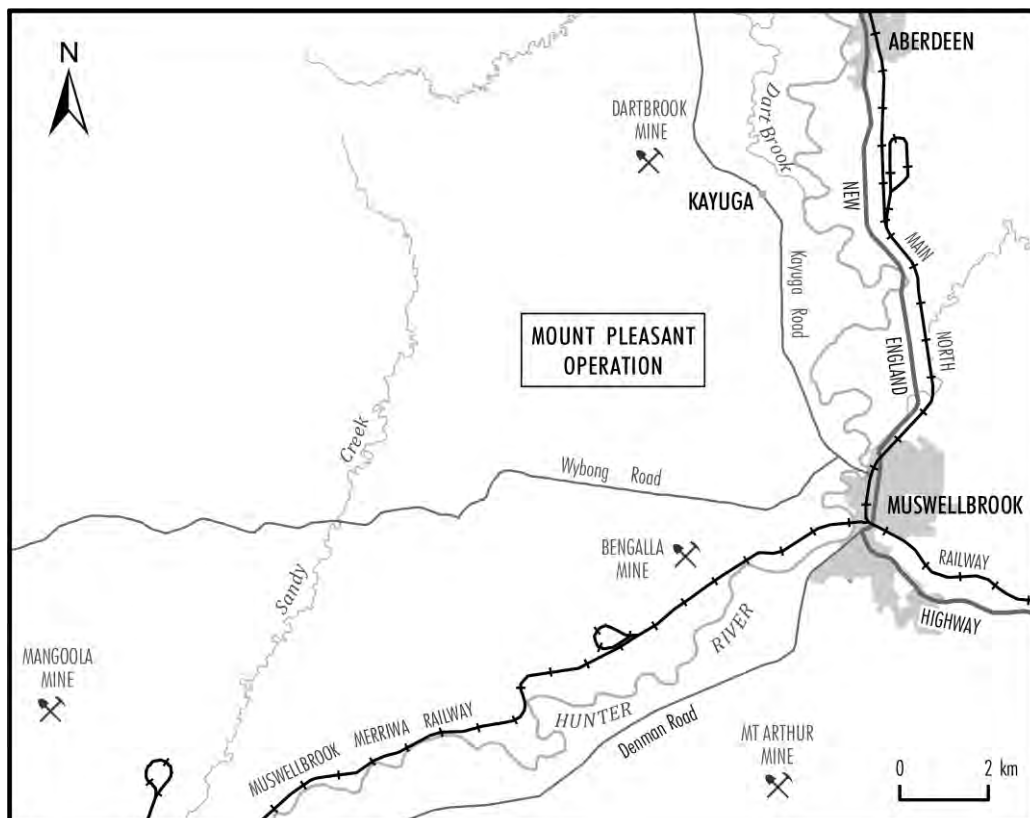
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wurrumay Consultants  
Kerrie Slater  
PO Box 817  
SINGLETON NSW 2330

Dear Kerrie,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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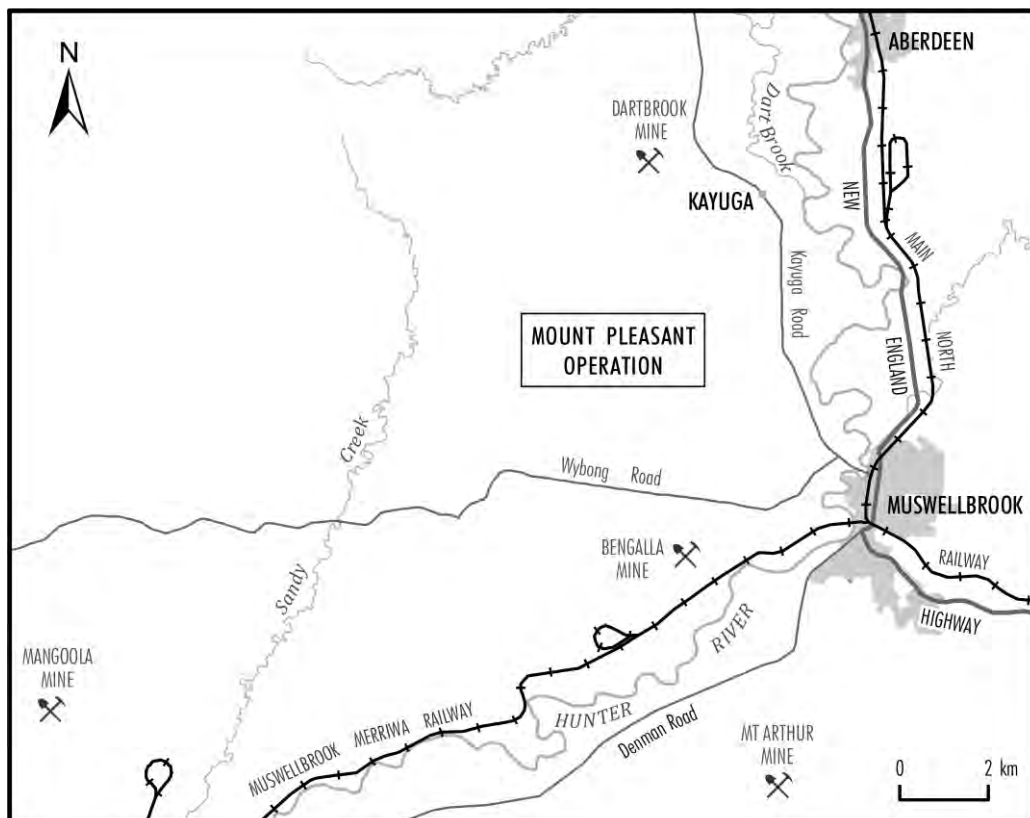
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

J & A Leonardi  
69 Nelson Street  
BARNSELY NSW 2278

Dear J & A Leonardi,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
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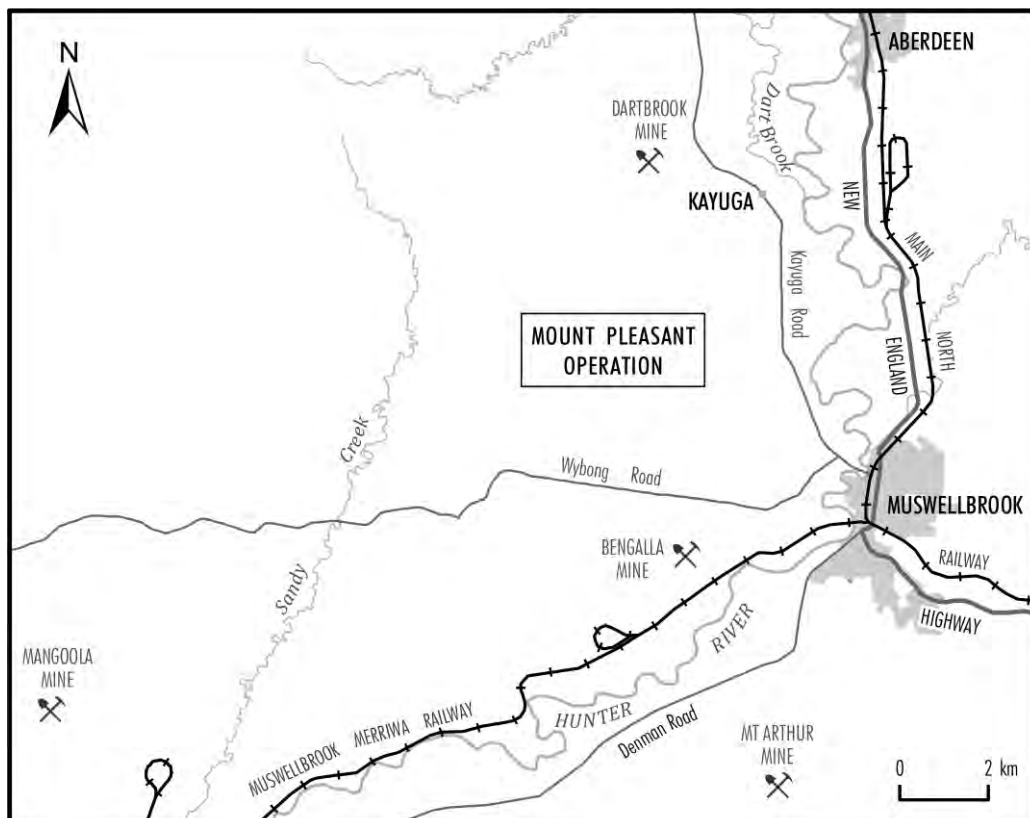
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Barry French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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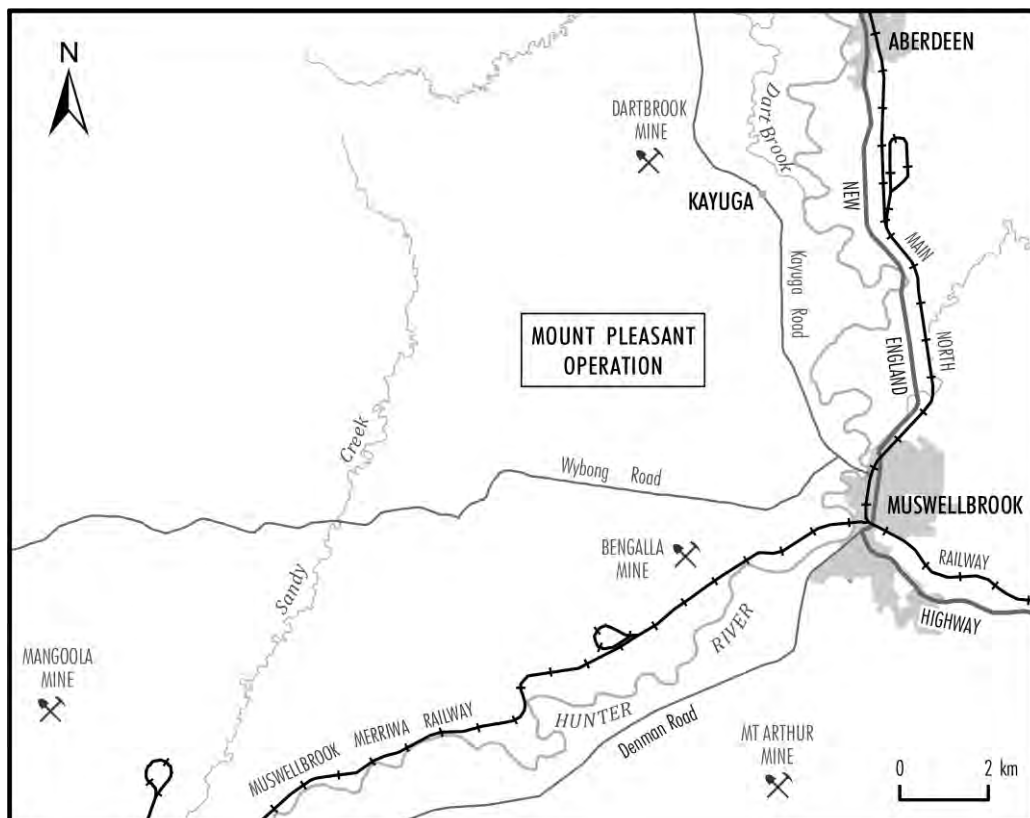
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Glen Morris  
12 Bell Street  
MUSWELLBROOK NSW 2333

Dear Glen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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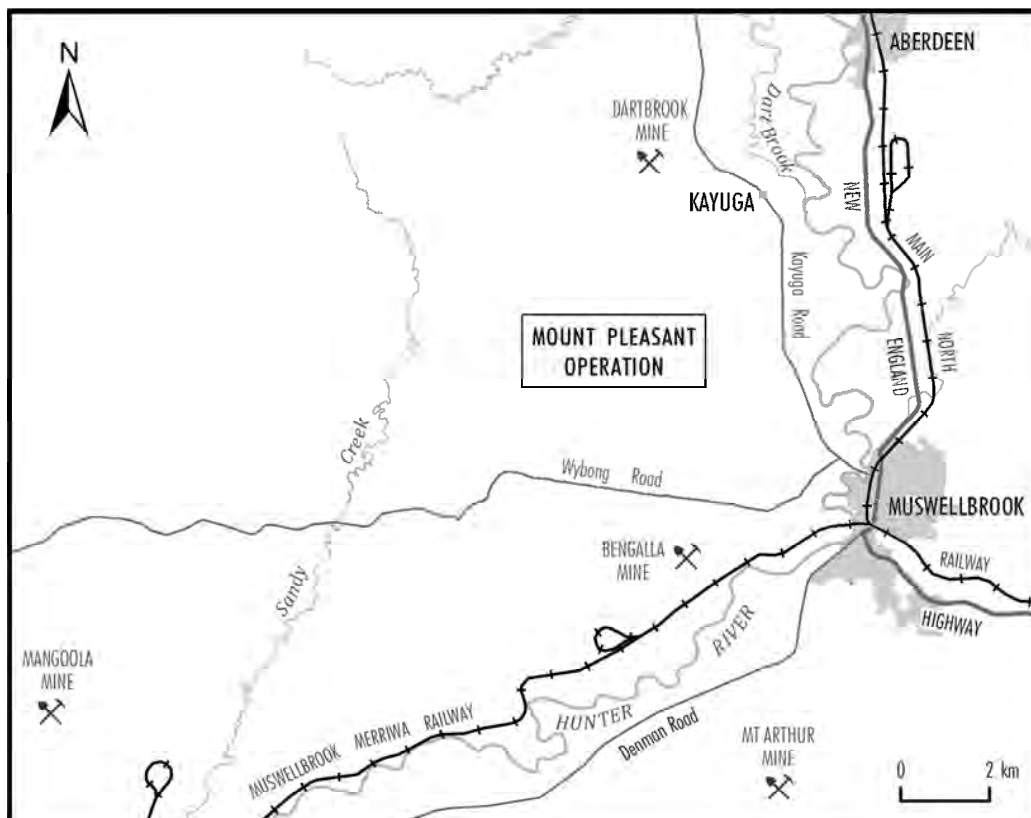
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Mandy Howard

Via email: [Amanda.howard@hnehealth.nsw.gov.au](mailto:Amanda.howard@hnehealth.nsw.gov.au)

Dear Mandy,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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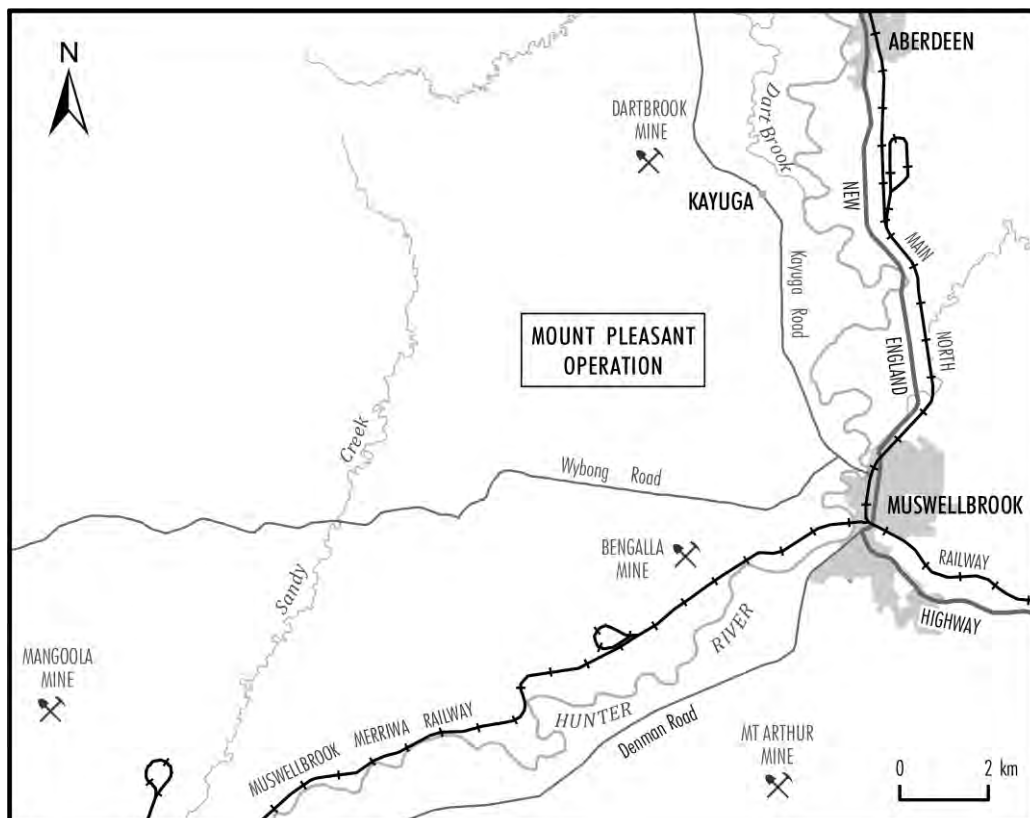
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

AGA Services  
Adam Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear Adam,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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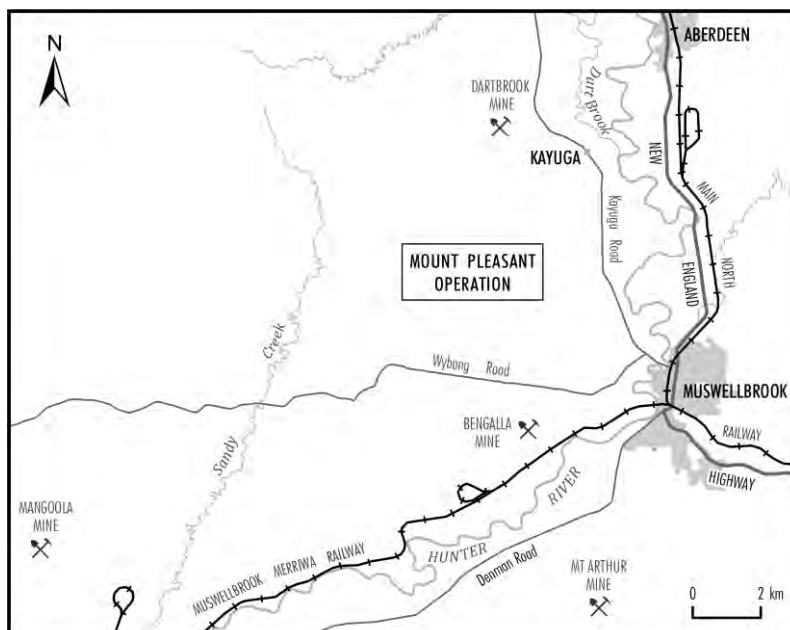


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Aliera French Trading  
Aliera French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Aliera,

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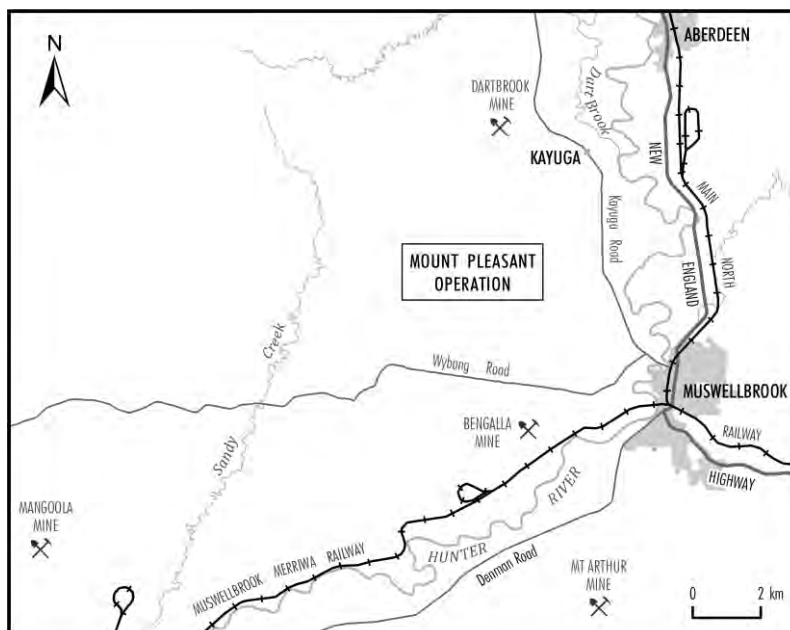


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Buda Mada Koori Womens Aboriginal Corporation  
Alison Howlett  
PO Box 3011  
SINGLETON NSW 2330

Dear Alison,

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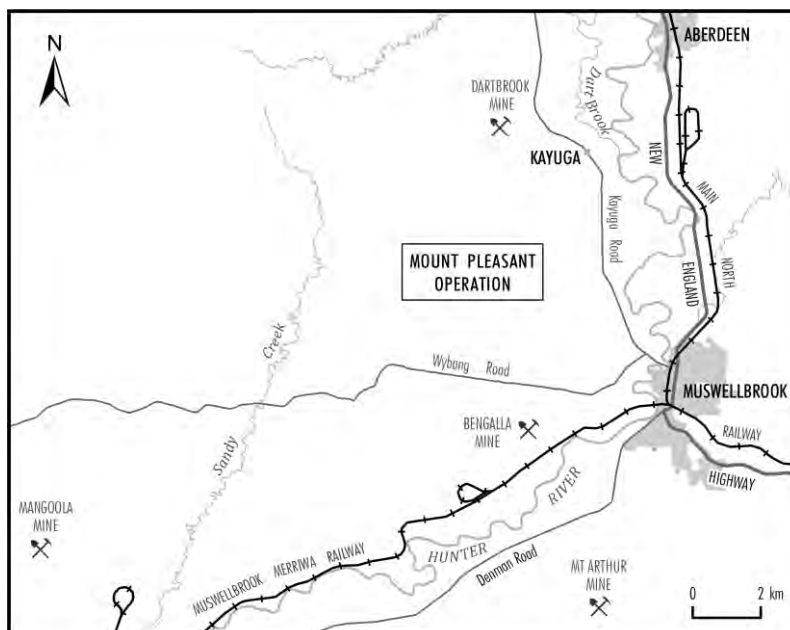


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Ungooroo Aboriginal Corporation  
Allen Paget  
PO Box 3095  
SINGLETON NSW 2330

Dear Allen,

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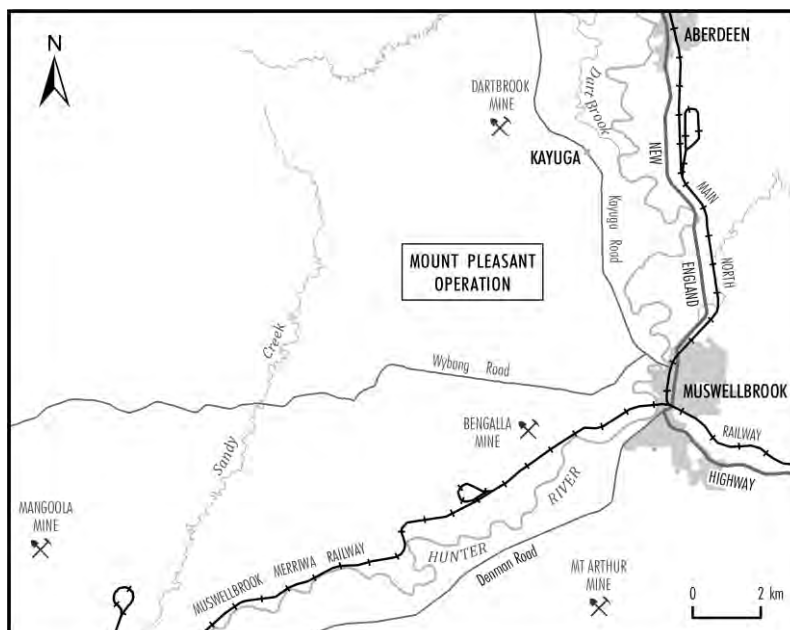


**Chris Lauritzen**

General Manager – Resource Development

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**Plan showing 'Area of Interest'**



29 May 2017

Amanda Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Amanda,

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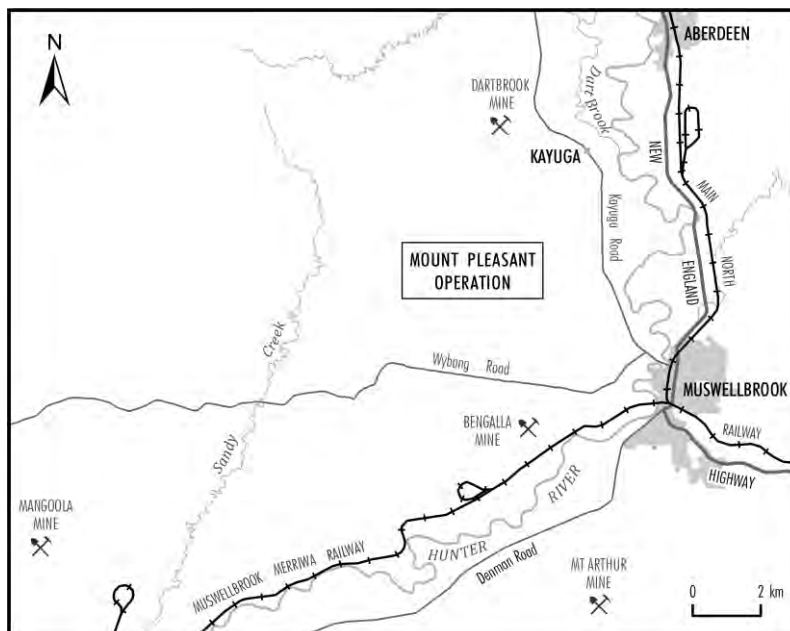
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General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Gidawaa Walang Cultural Heritage Consultancy  
Anne Hickey  
76 Lang Street  
KURRI KURRI NSW 2327

Dear Anne,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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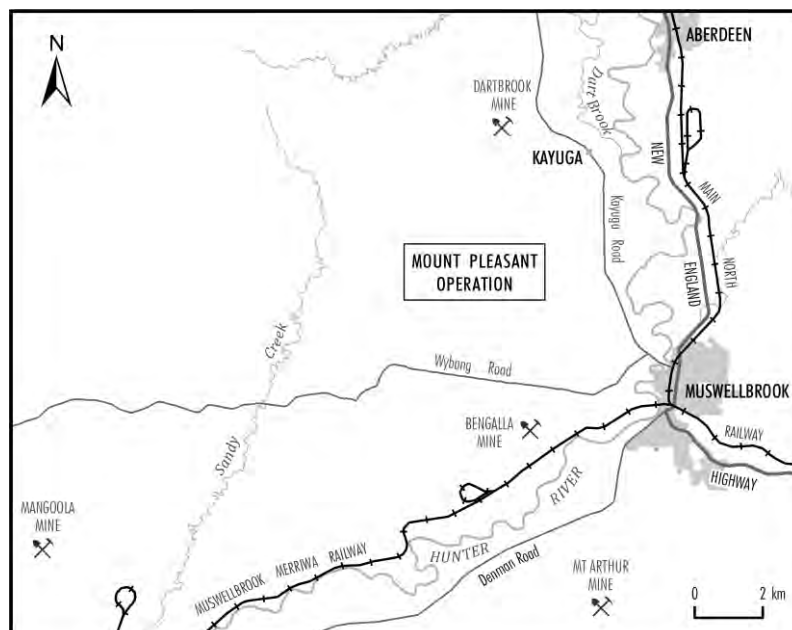


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**Plan showing 'Area of Interest'**



29 May 2017

Wonnarua Elders Council Inc.  
Arthur Fletcher  
PO Box 844  
CESSNOCK NSW 2325

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

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C/- Julie Fletcher

Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)

Phone: 1800 886 889

Yours sincerely,

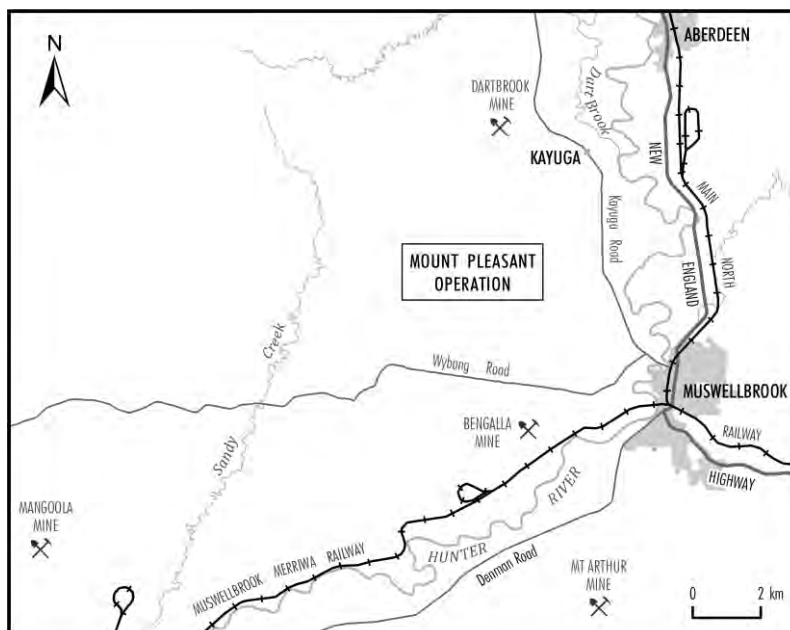


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Kauwul (Wonn 1)  
Arthur Fletcher  
619 Main Road  
GLENDALE NSW 2285

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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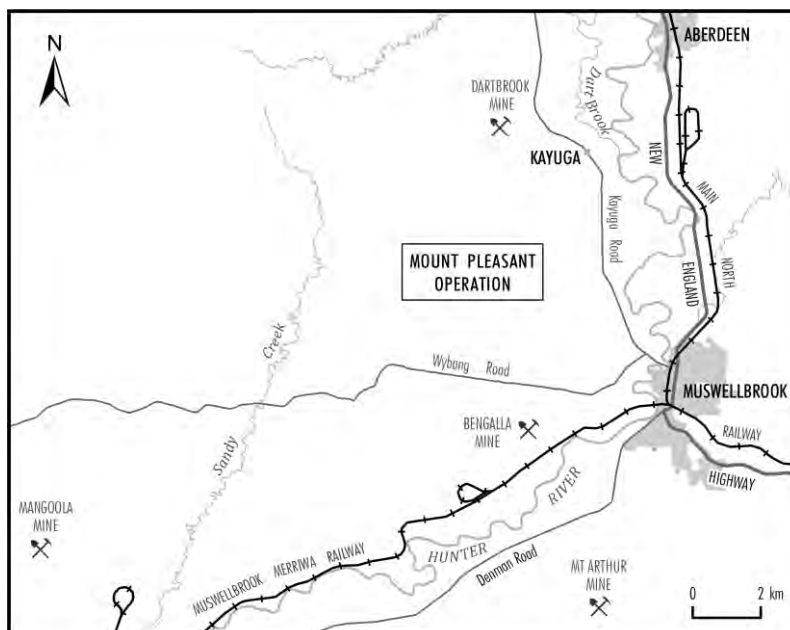


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Barry & Colleen Stair  
8 Acacia Drive  
MUSWELLBROOK NSW 2333

Dear Barry & Colleen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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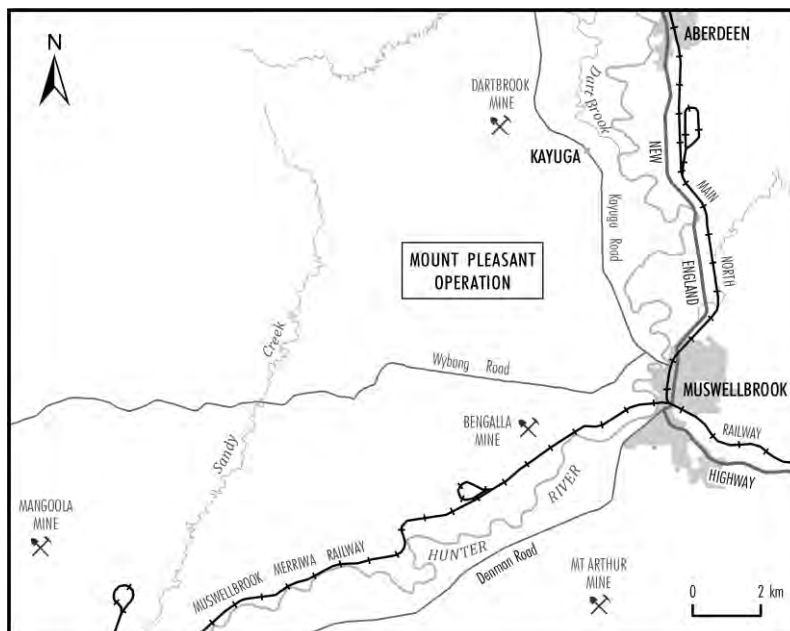
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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Lower Wonnarua Tribal Consultancy Pty Ltd  
Barry Anderson  
156 Inlet Road  
BULGA NSW 2330

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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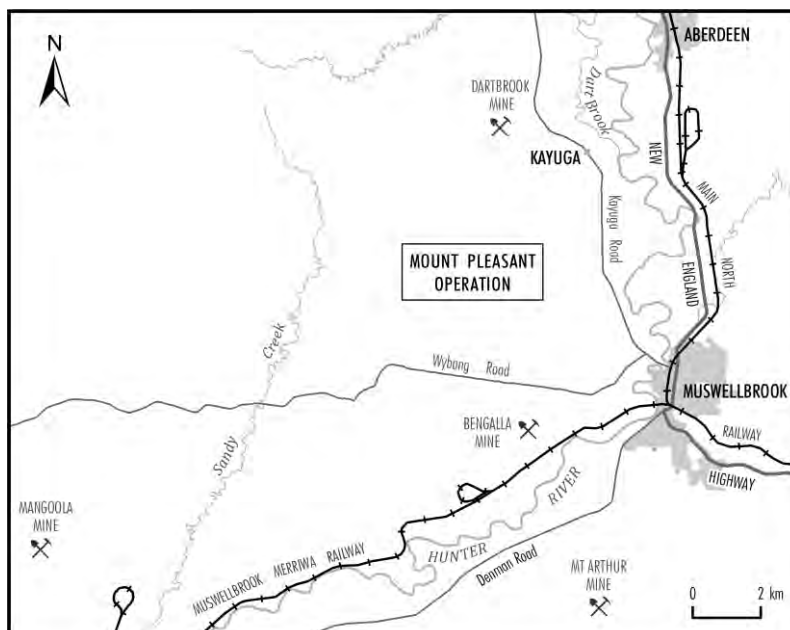


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Yarrawalk Enterprises  
Barry McTaggart  
913 Wollombi Road  
BROKE NSW 2330

Dear Barry,

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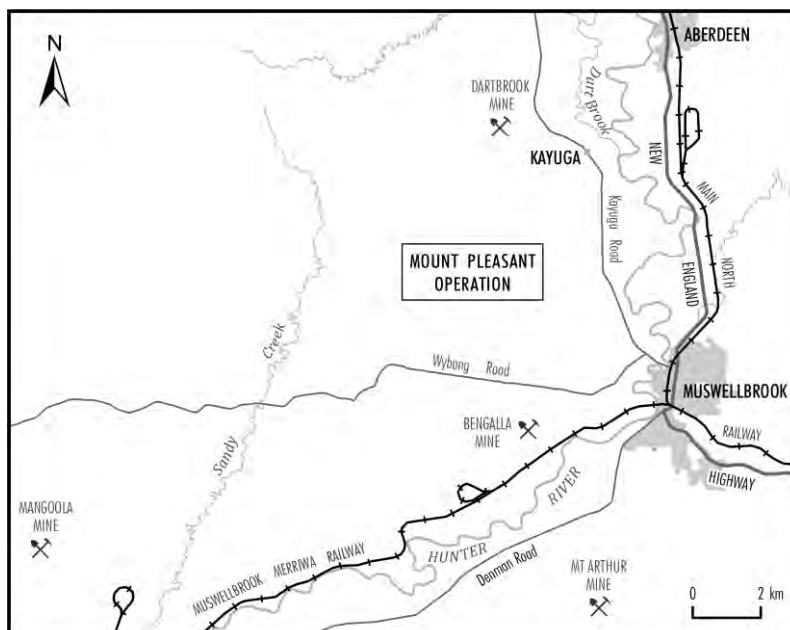


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

BJC Cultural Management  
Ben Cameron  
11 Stanley Street  
GUNNEDAH NSW 2380

Dear Ben,

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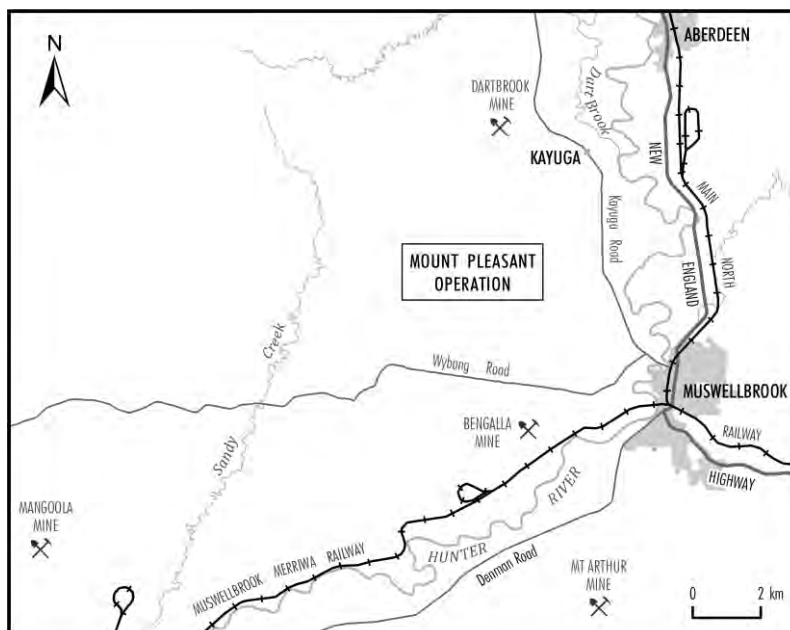


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Muswellbrook Culture Consultants  
Brian Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

Dear Brian,

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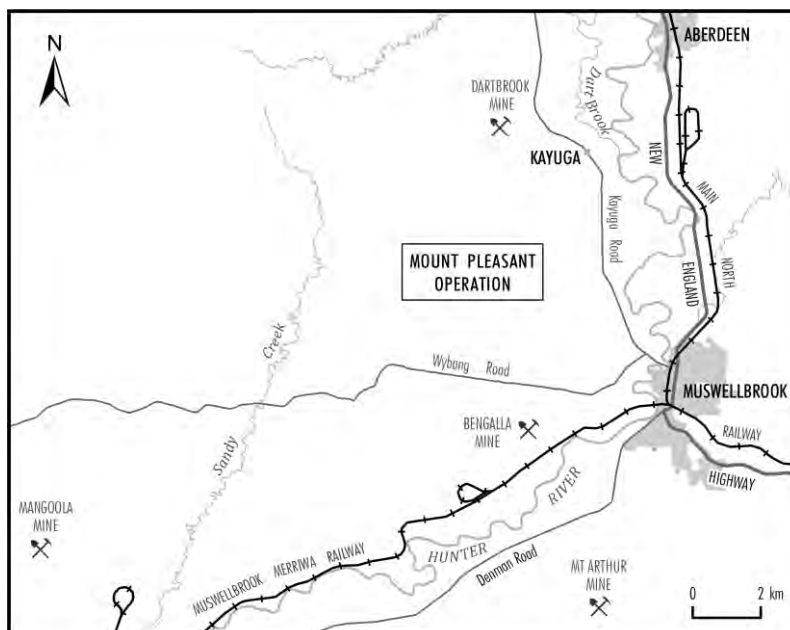


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Chantae Griffiths  
14 Westerweller Street  
GUNNEDAH NSW 2380

Dear Chantae,

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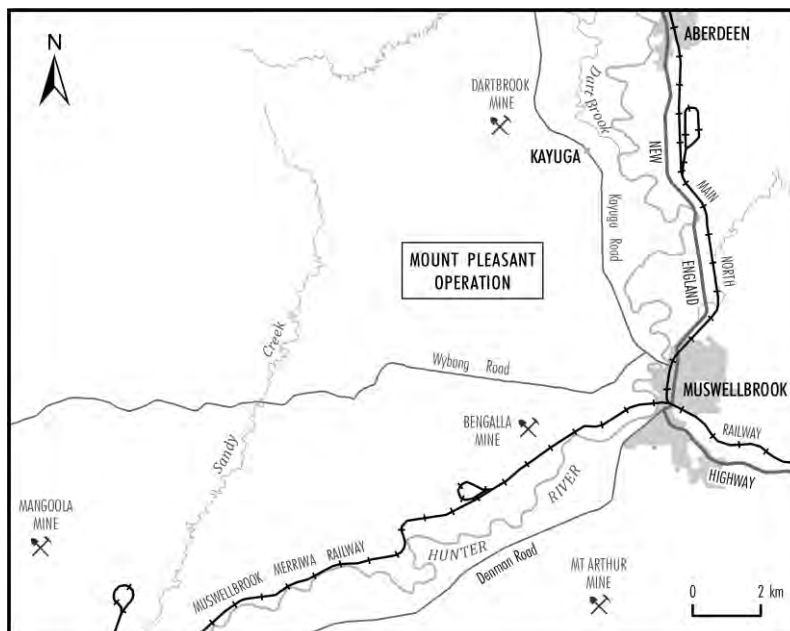
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General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hunter Valley Cultural Consultants  
Christine Archbold  
13 Bimbadeen Drive  
MUSWELLBROOK NSW 2333

Dear Christine,

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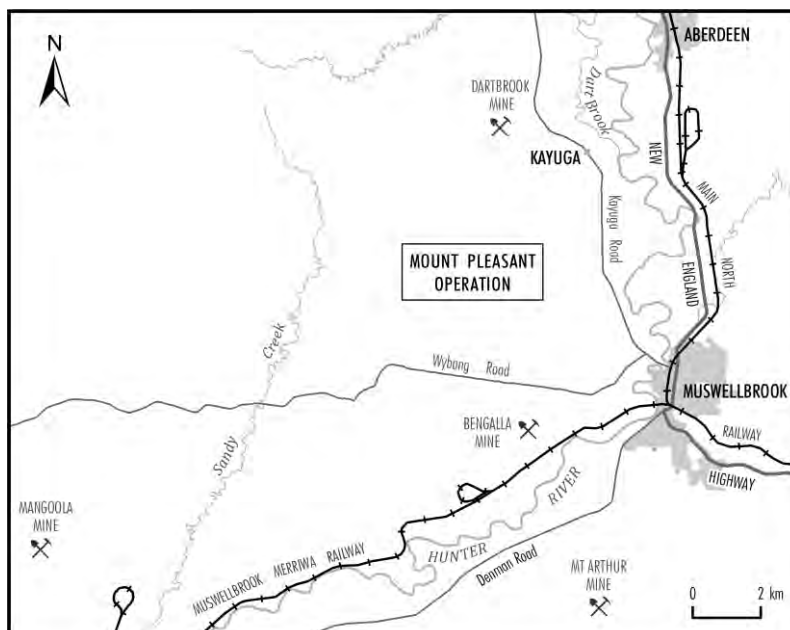


**Chris Lauritzen**

General Manager – Resource Development

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**Plan showing 'Area of Interest'**



29 May 2017

Clifford Johnson  
77 Tobruk Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford,

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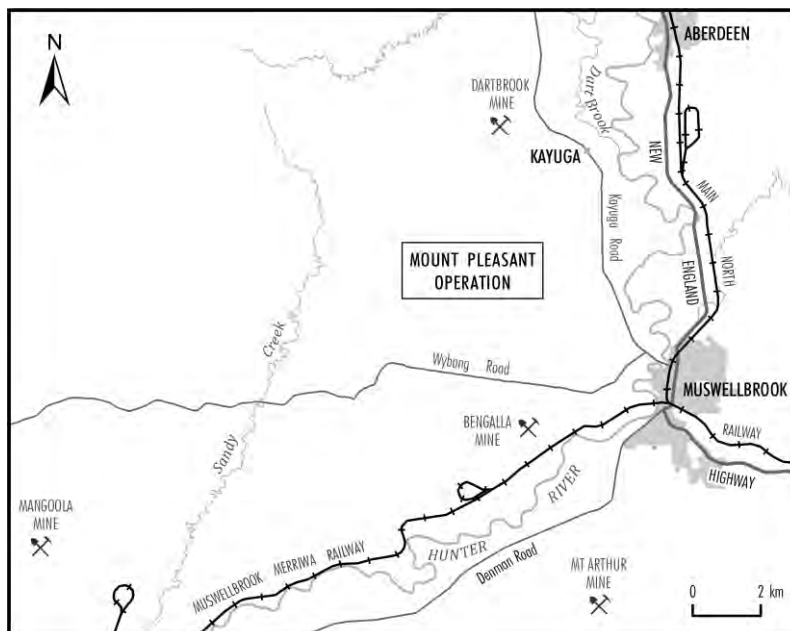
MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Mingga Consultants  
Clifford Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

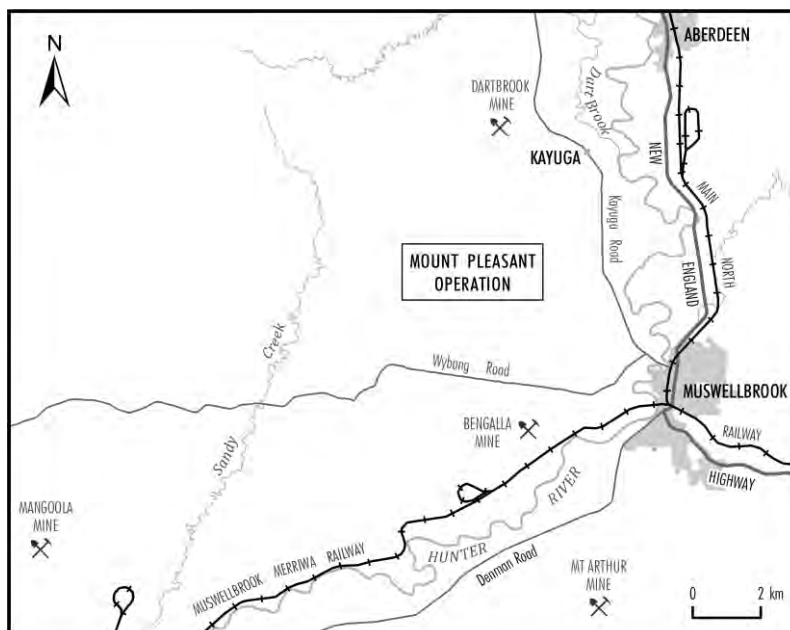


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Upper Hunter Heritage Consultants  
Darrel Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Darrel,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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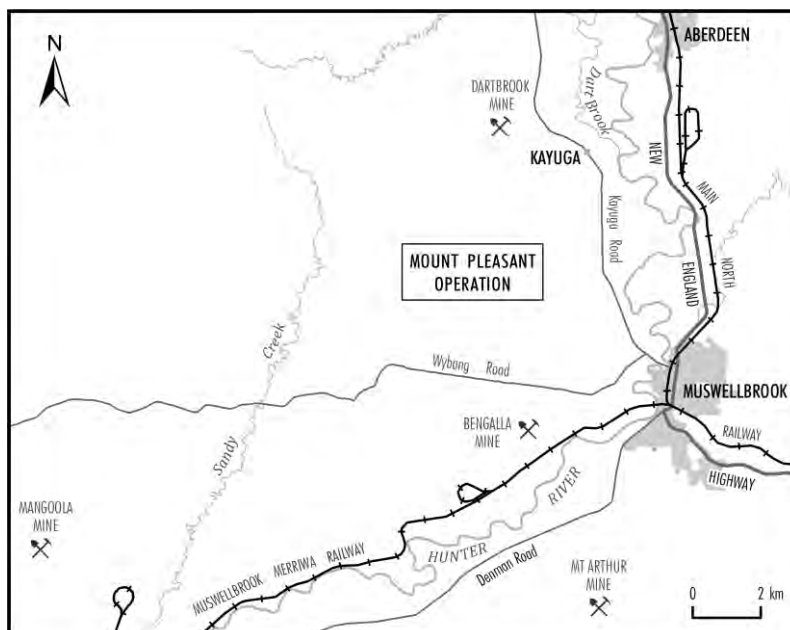
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Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Lower Hunter Aboriginal Incorporated  
David Ahoy  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear David,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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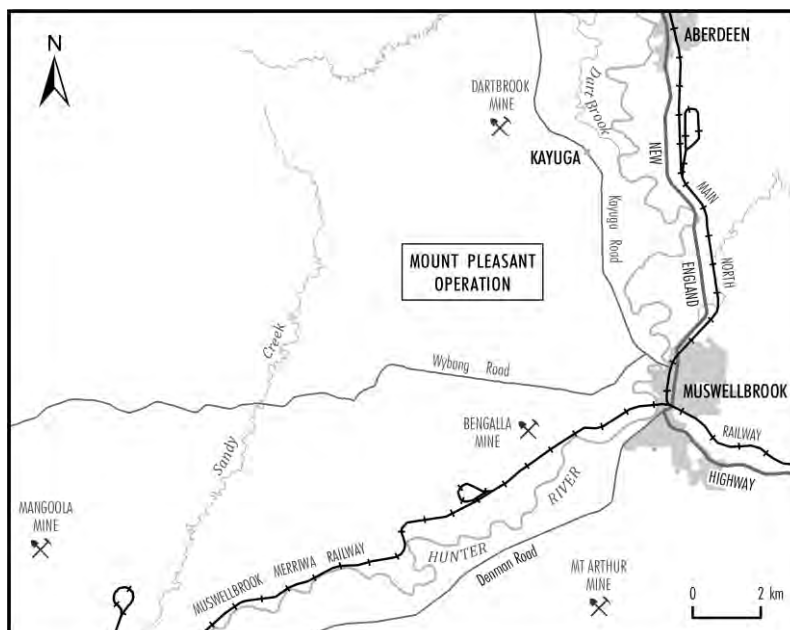


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Upper Hunter Natural and Cultural Resources Management  
David French  
Flat 3, 60 Tindale Street  
MUSWELLBROOK NSW 2333

Dear David,

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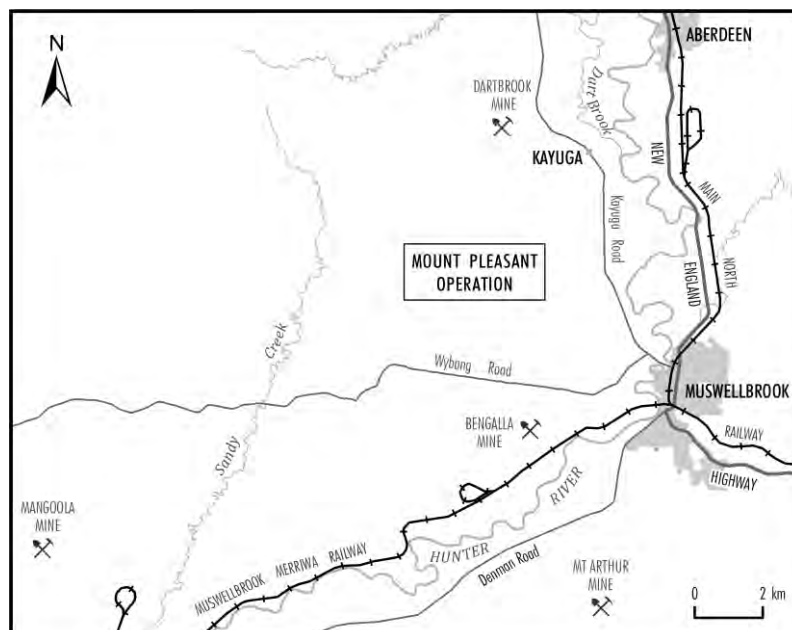


**Chris Lauritzen**

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**Plan showing 'Area of Interest'**



29 May 2017

Gomery Cultural Consultants  
David Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

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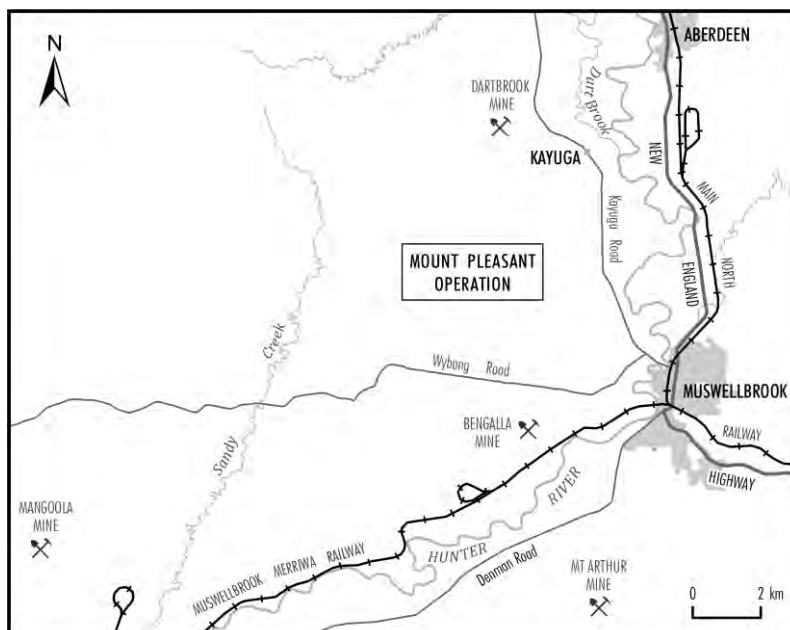


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Divine Diggers Aboriginal Cultural Consultants  
Deidre Perkins  
6 Ashleigh Street  
HEDDON GRETA NSW 2321

Dear Deidre,

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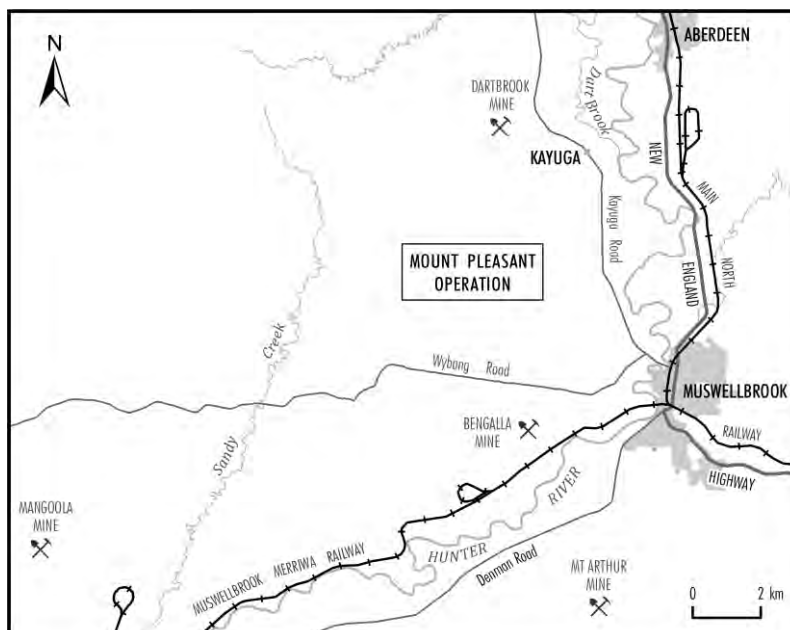
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**Plan showing 'Area of Interest'**





29 May 2017

DFTV Enterprises  
Derrick Vale Sr  
5 Mountbatten Close  
RUTHERFORD NSW 2320

Dear Derrick,

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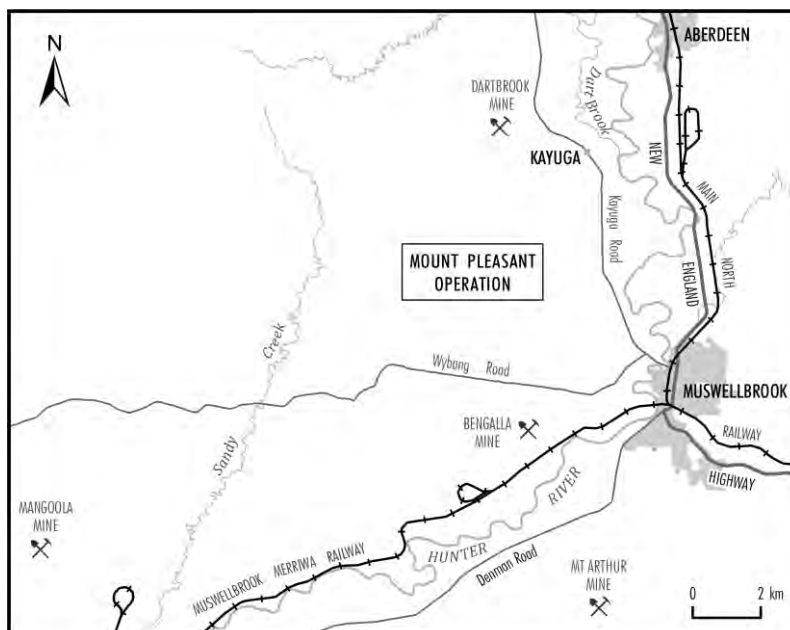


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wattaka Wonnarua Cultural Consultants Service  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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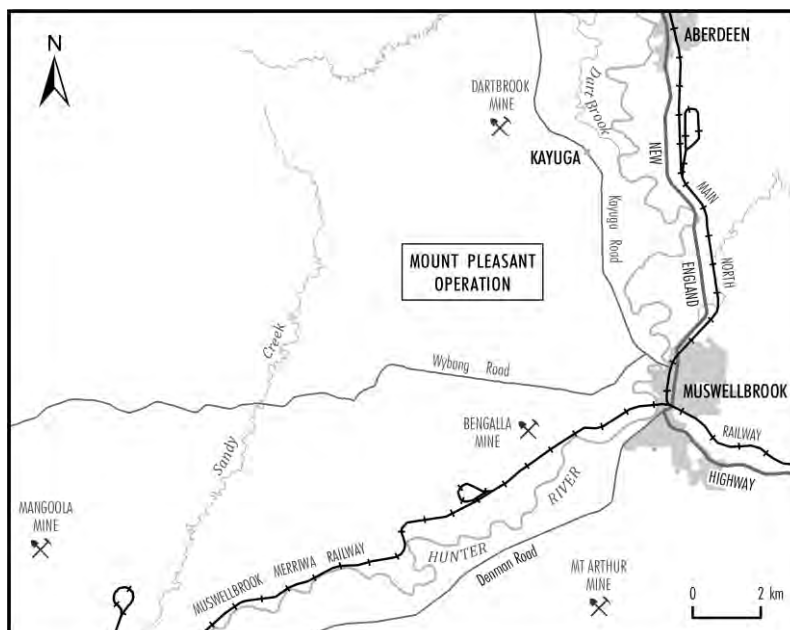


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**Plan showing 'Area of Interest'**



29 May 2017

Wonnarua Traditional Custodians  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

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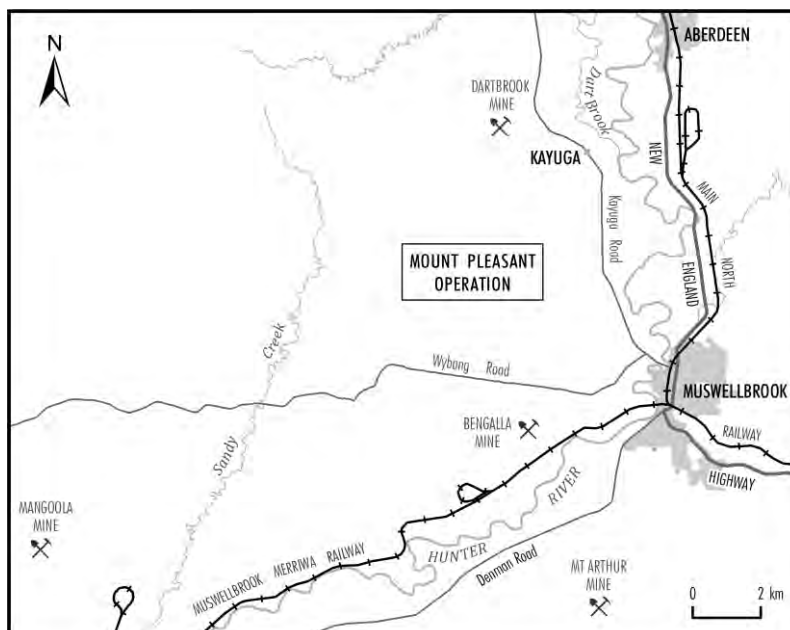


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Deslee Talbot Consultant  
Deslee Matthews  
2/19 South Street  
GUNNEDAH NSW 2380

Dear Deslee,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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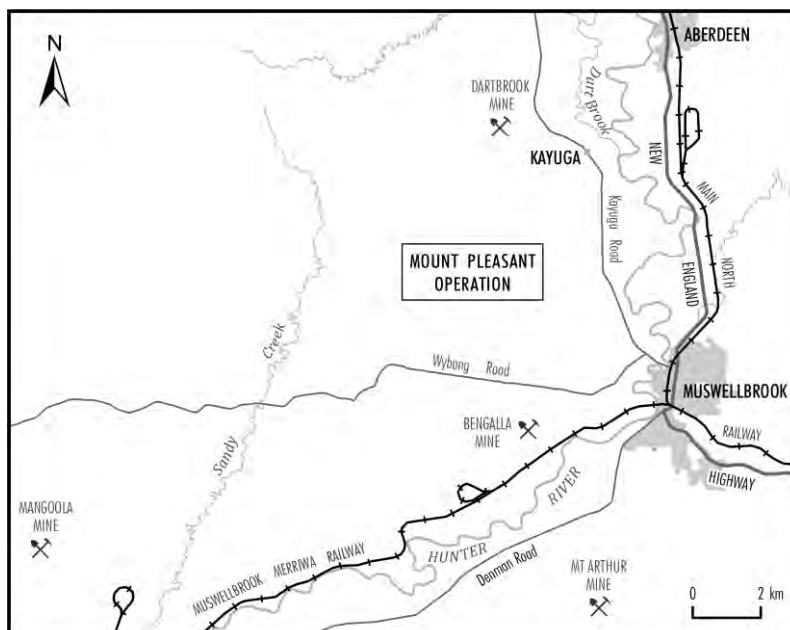


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Waabi Gabinya Cultural Consultancy  
Elizabeth Howard  
19 Foley Street  
MUSWELLBROOK NSW 2333

Dear Elizabeth,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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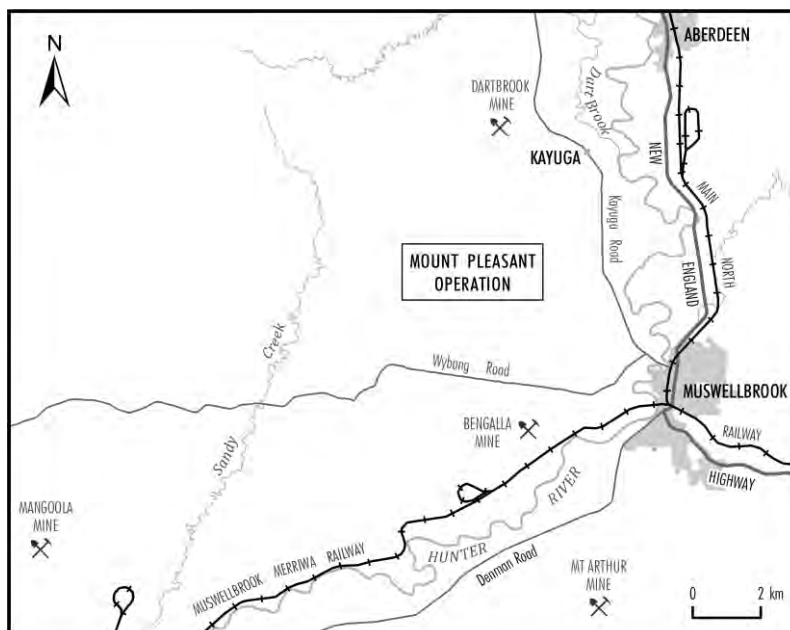


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Esther Tighe  
1/86 Edward Street  
GUNNEDAH NSW 2380

Dear Esther,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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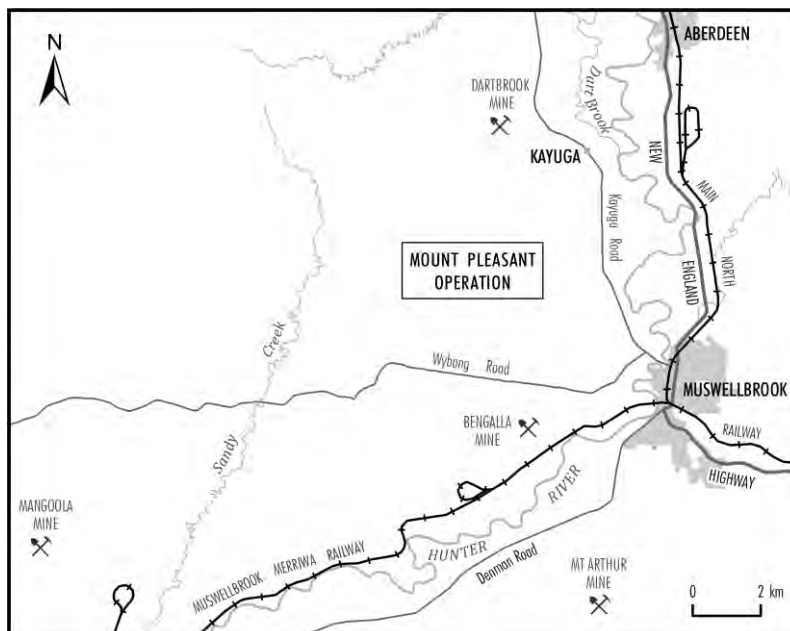
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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Fiona Draper  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Fiona,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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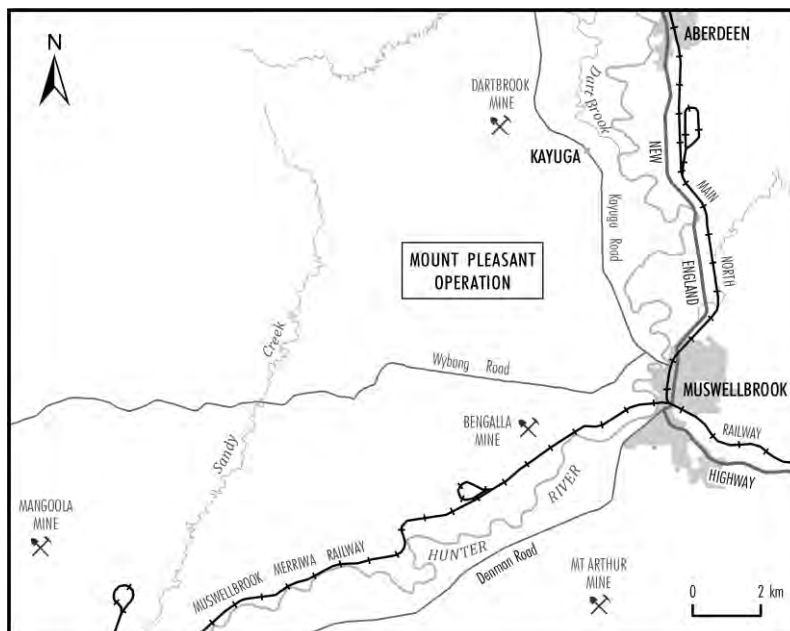
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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Cacatua General Services  
George Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear George,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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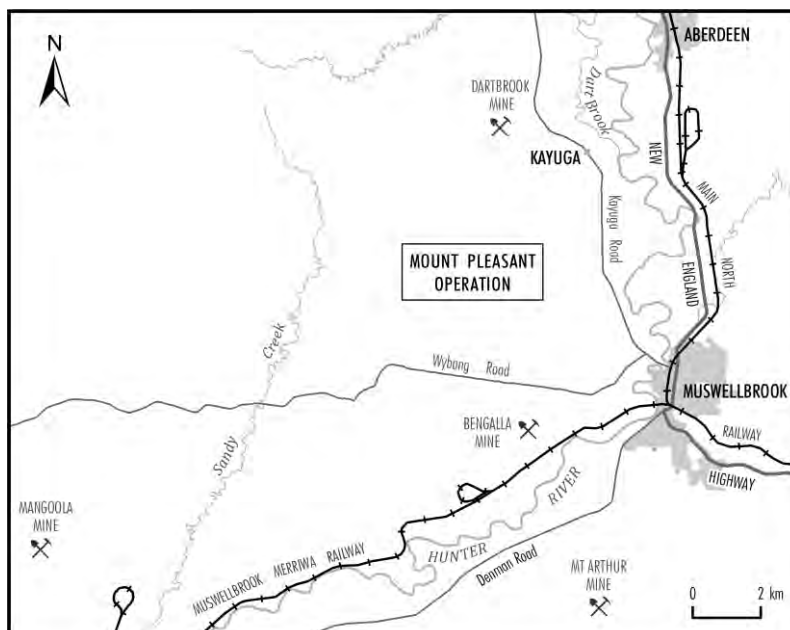


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Gina Field  
4 Meldrum Place  
GUNNEDAH NSW 2380

Dear Gina,

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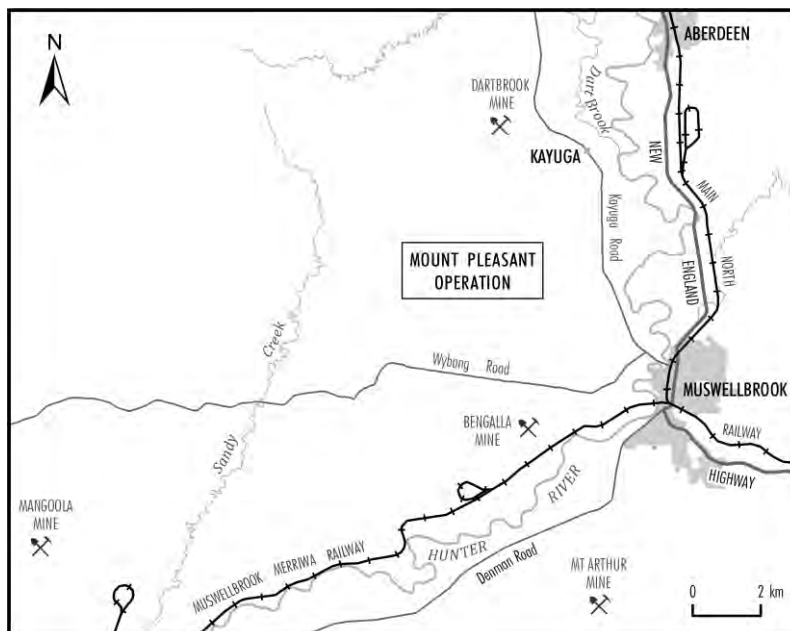
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wonnarua Culture Heritage  
Gordon Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Gordon,

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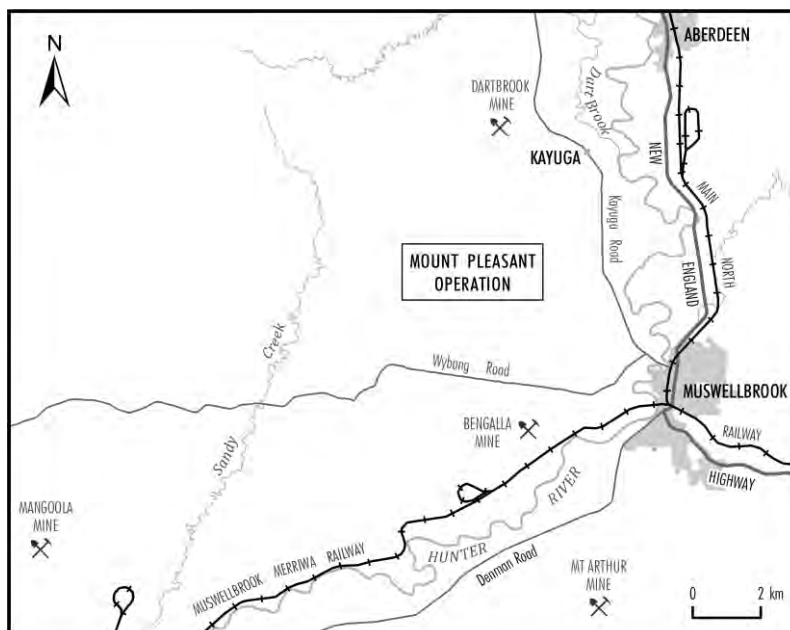


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Gomerioi Murri Ganuurr Yuuray Wadi Palinka  
Greg Griffiths  
3 Jarmain Close  
GUNNEDAH NSW 2380

Dear Greg,

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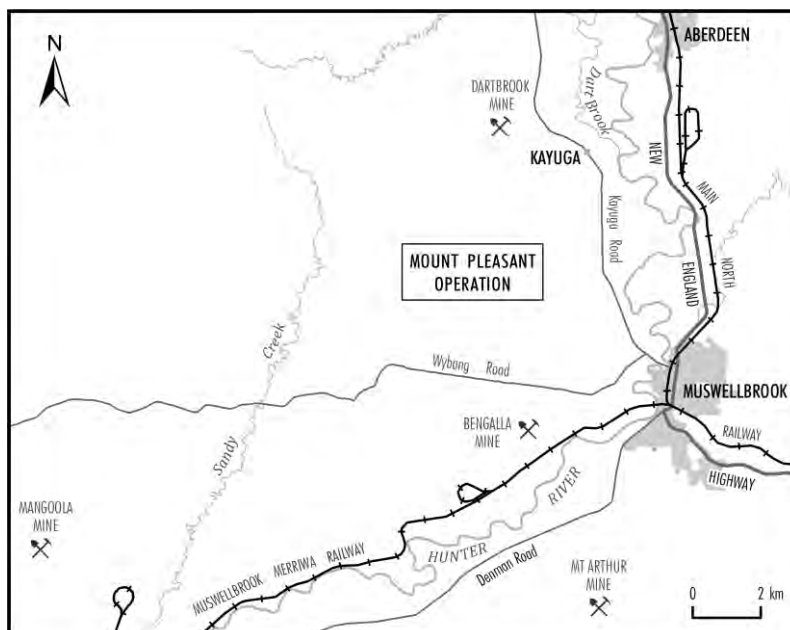
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Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hazel Collins  
3 Carroll Street  
GUNNEDAH NSW 2380

Dear Hazel,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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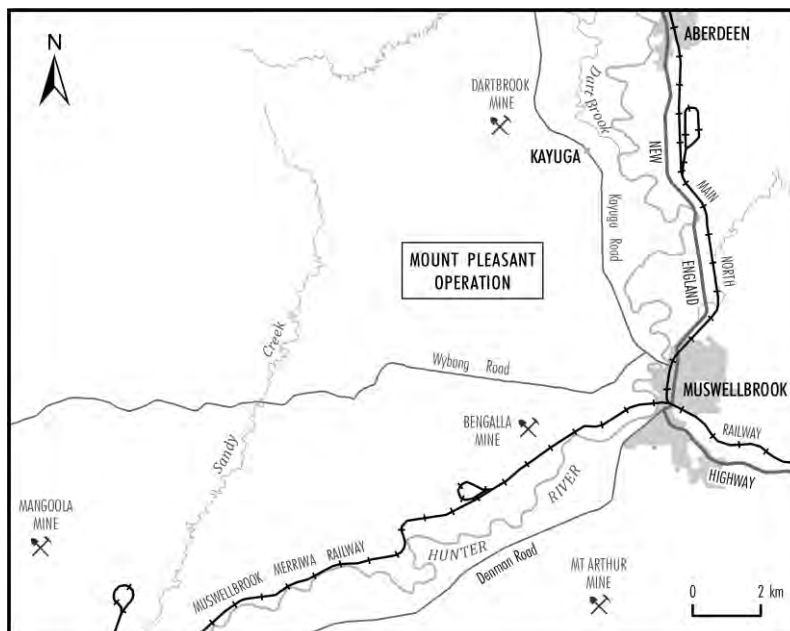
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**Chris Lauritzen**  
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MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

DRM Cultural Management  
Helen Faulkner  
81 Wansbeck Valley Road  
CARDIFF NSW 2285

Dear Helen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher

Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)

Phone: 1800 886 889

Yours sincerely,

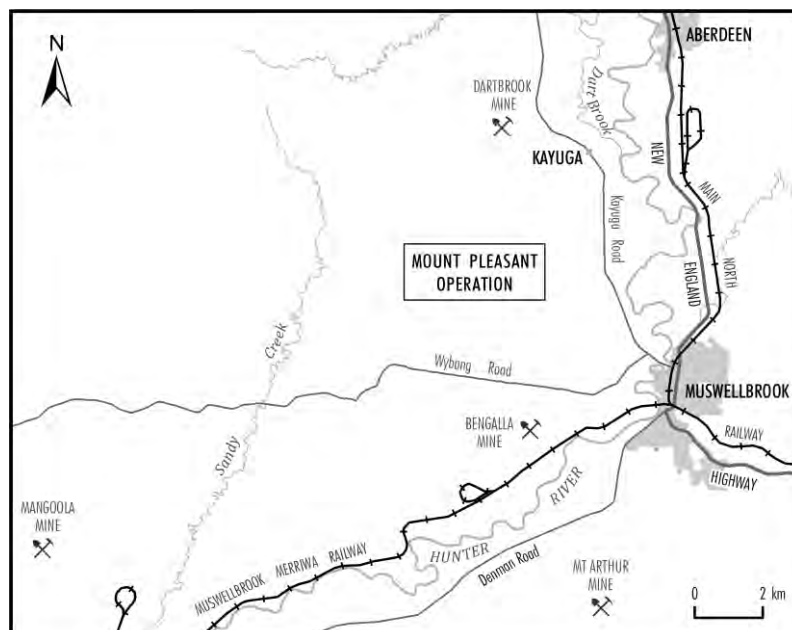


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

I & E Aboriginal Culture and Heritage  
Ivy Jaeger  
Unit 1/162 Myall Road  
CARDIFF NSW 2285

Dear Ivy,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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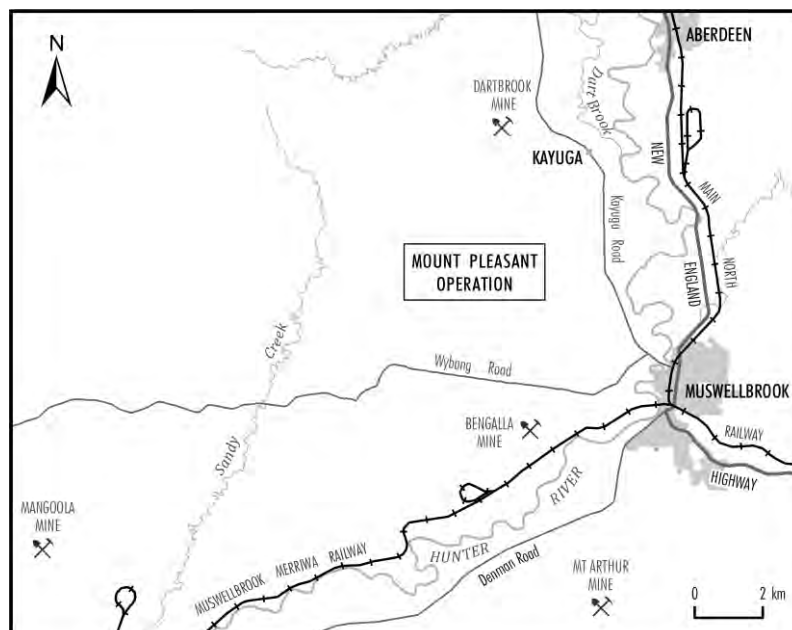


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Crimson-Rosie  
Jeff Matthews  
6 Eucalypt Avenue  
MUSWELLBROOK NSW 2333

Dear Jeff,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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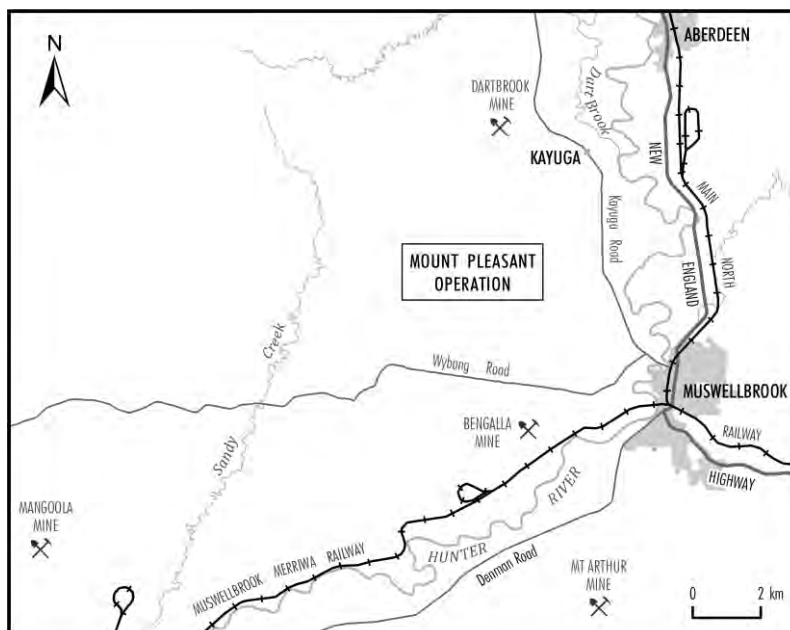


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

JLC Cultural Services  
Jenny-Lee Chambers  
39 Goulburn Drive  
SANDY HOLLOW NSW 2333

Dear Jenny-Lee,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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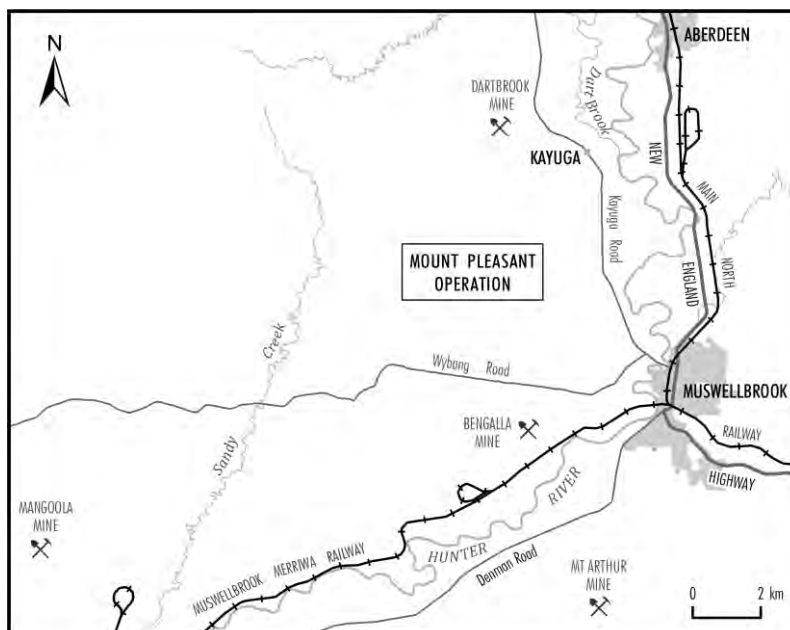


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Lower Hunter Aboriginal Corporation  
Jill Green  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear Jill,

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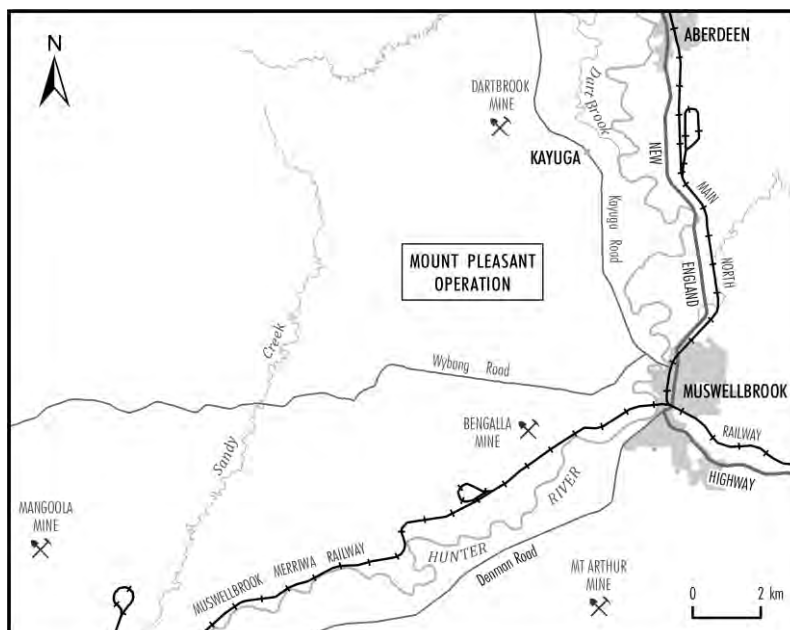


**Chris Lauritzen**

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**Plan showing 'Area of Interest'**



29 May 2017

Aboriginal Native Title Consultants  
John & Margaret Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear John & Margaret,

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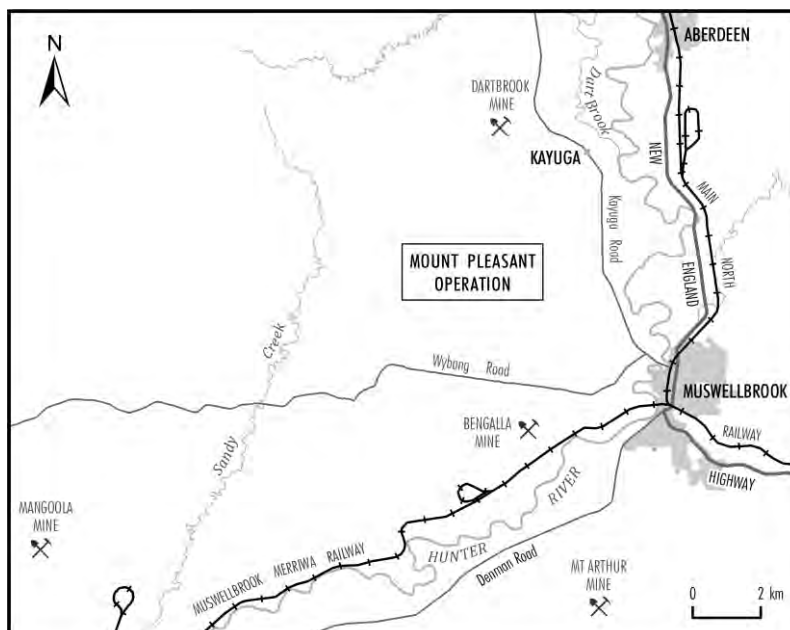
MACH Energy Australia Pty Ltd  
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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Carrawonga  
Justin Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Justin,

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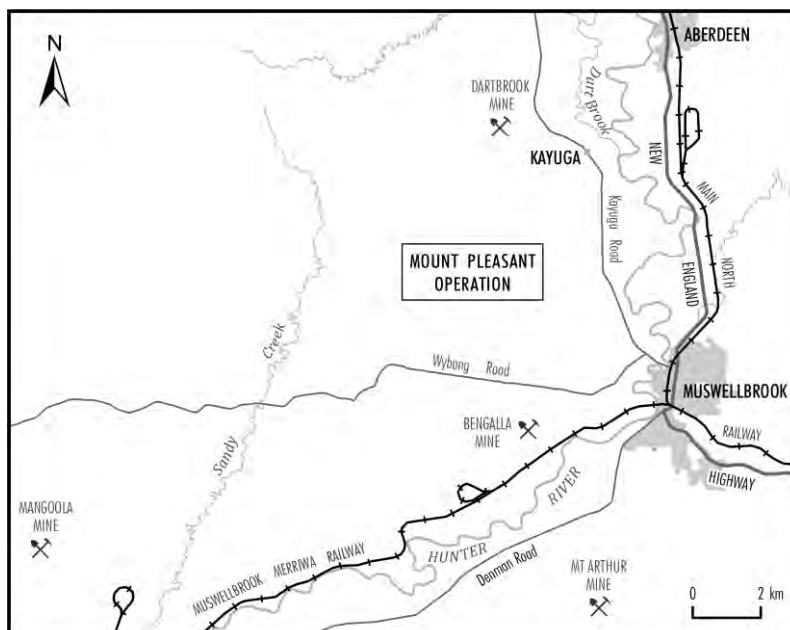


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Galamaay Consultant  
Karen Matthews  
21 Bando Street  
GUNNEDAH NSW 2380

Dear Karen,

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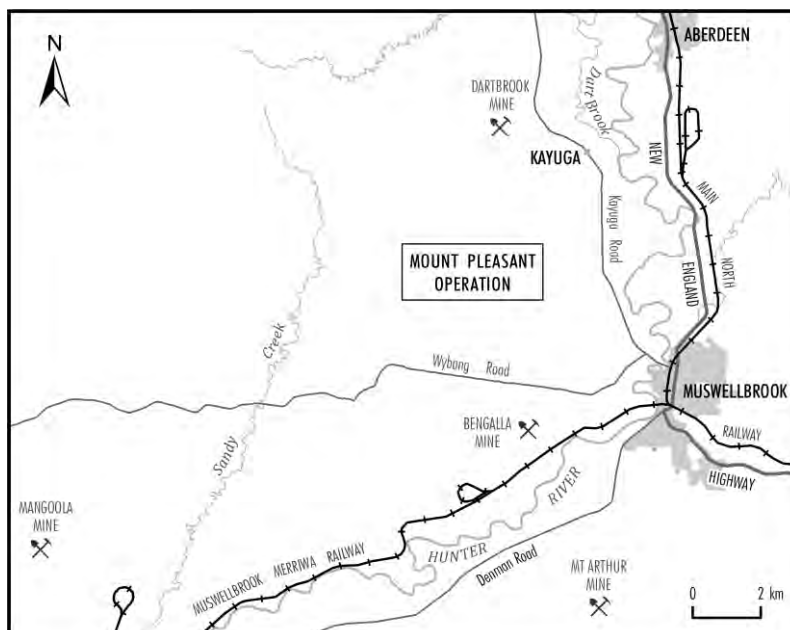
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Yinarr Cultural Services  
Kathleen Steward-Kinchela  
111 Westwood Rd  
GUNGAL NSW 2333

Dear Kathie,

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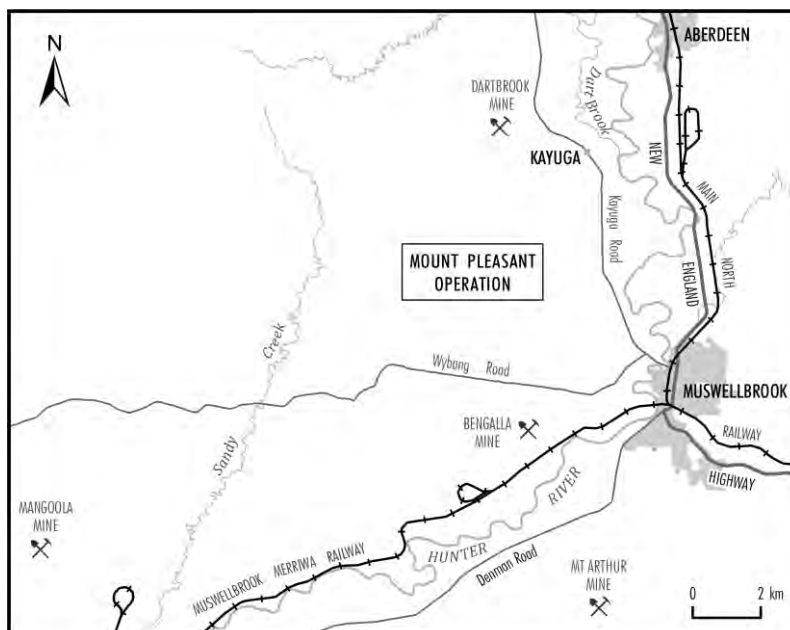


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

HECMO Consultants  
Kerren Boyd  
Lot 136 Main Street  
BREEZA NSW 2381

Dear Kerren,

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C/- Julie Fletcher

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Yours sincerely,

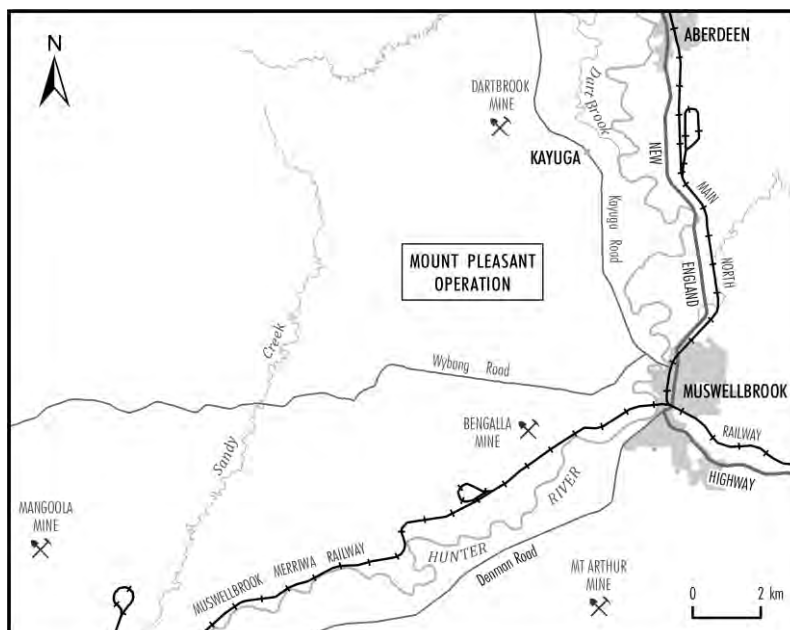


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Bawurra Consultants  
Kevin Sampson  
1 Martin Street  
BREEZA NSW 2381

Dear Kevin,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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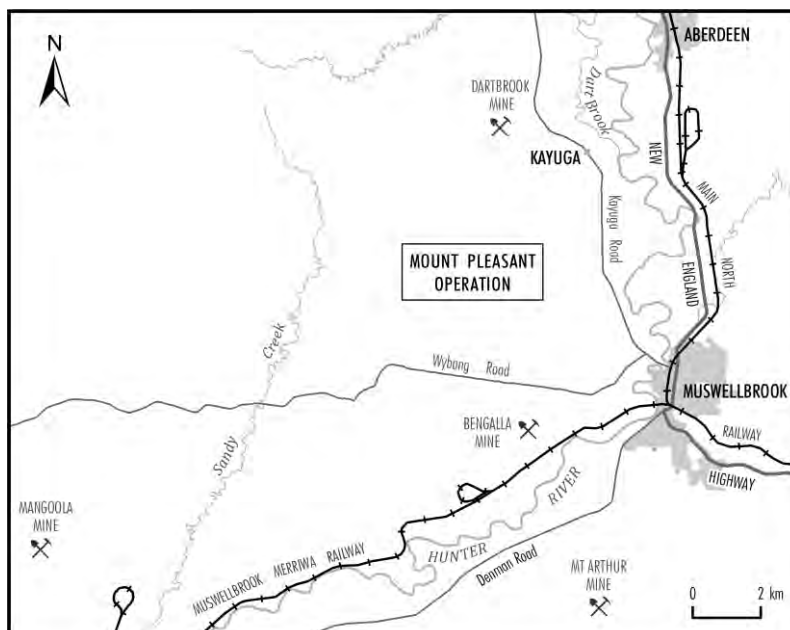


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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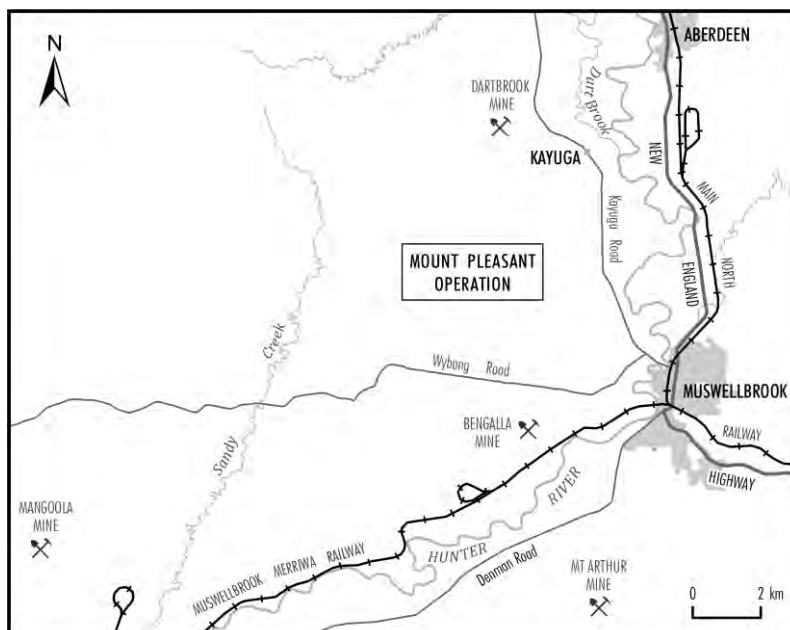


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

KL.KG Saunders Trading Services  
Krystal Saunders  
20 Ruderford Road  
MUSWELLBROOK NSW 2333

Dear Krystal,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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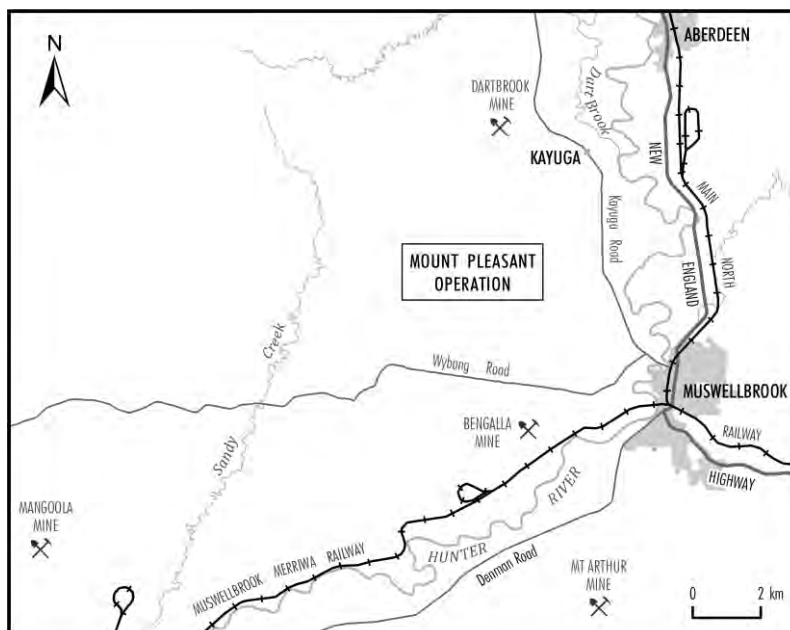


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Valley Culture  
Larry van Vliet  
140 Sydney Street  
MUSWELLBROOK NSW 2333

Dear Larry,

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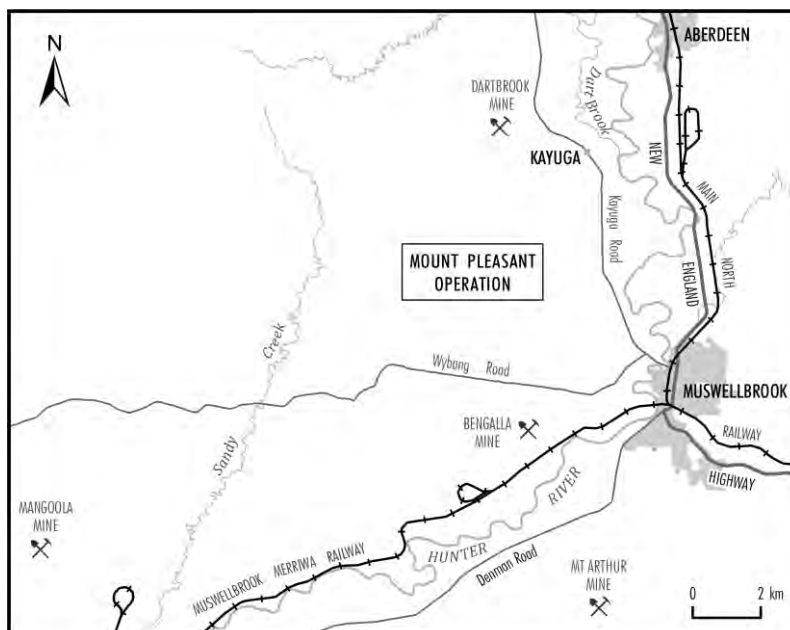


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wonnarua Nation Aboriginal Corporation  
Laurie Perry  
PO Box 3066  
SINGLETON NSW 2330

Dear Laurie,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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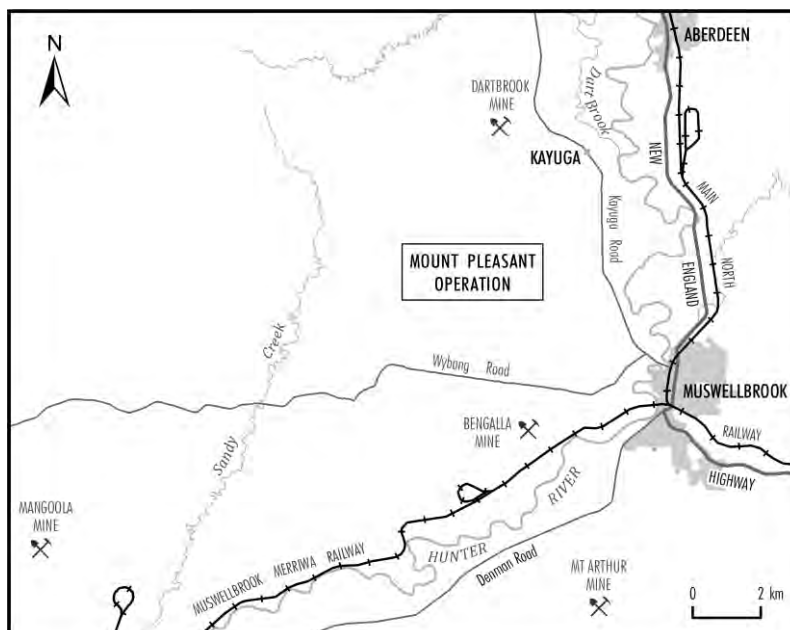
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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Jarban & Mugrebea  
Les Atkinson  
11 Nelson Street  
CESSNOCK NSW 2325

Dear Les,

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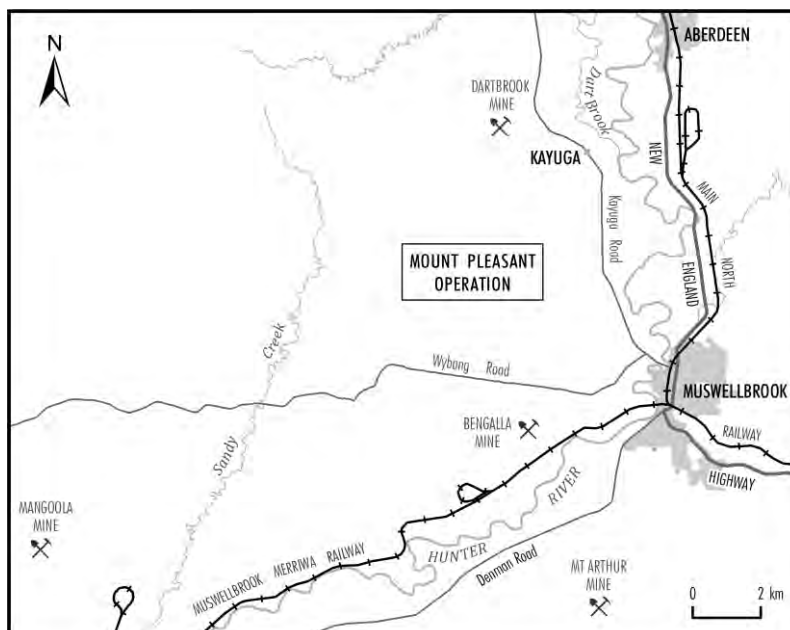


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

L.J Culture Management  
Les Field  
4 Hinton Drive  
GUNNEDAH NSW 2380

Dear Les,

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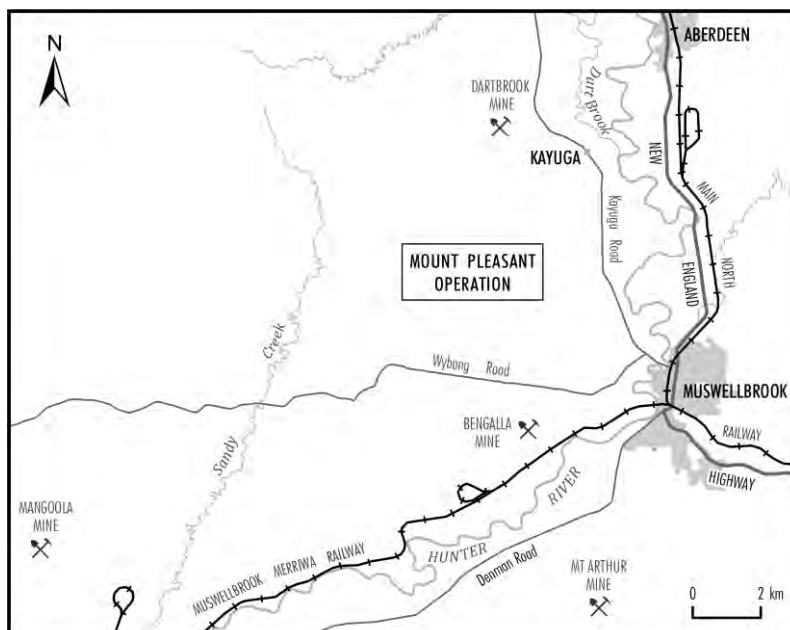


**Chris Lauritzen**

General Manager – Resource Development

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**Plan showing 'Area of Interest'**



29 May 2017

Luke Cameron Cultural Management  
Luke Cameron  
28 Herbert Street  
GUNNEDAH NSW 2380

Dear Luke,

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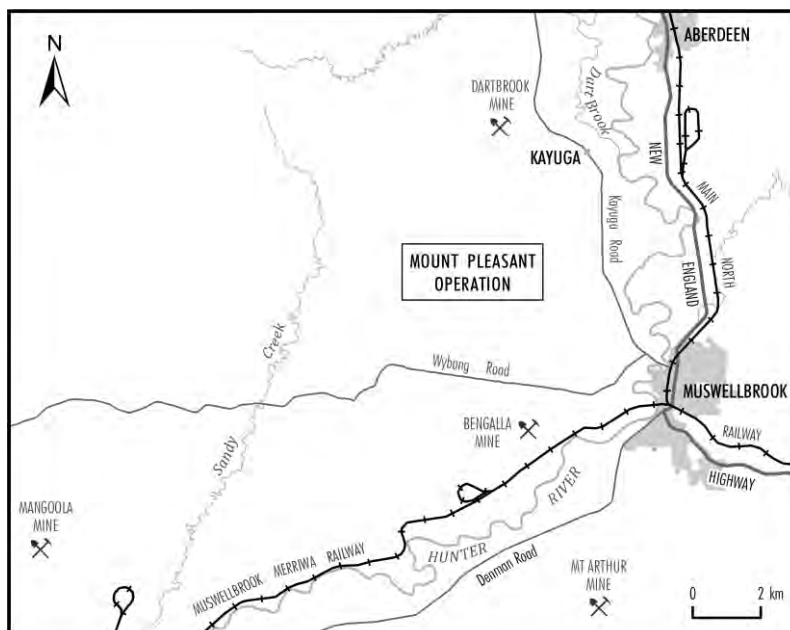


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Hunter Valley Cultural Surveying  
Luke Hickey  
165 Susan Street  
SCONE NSW 2337

Dear Luke,

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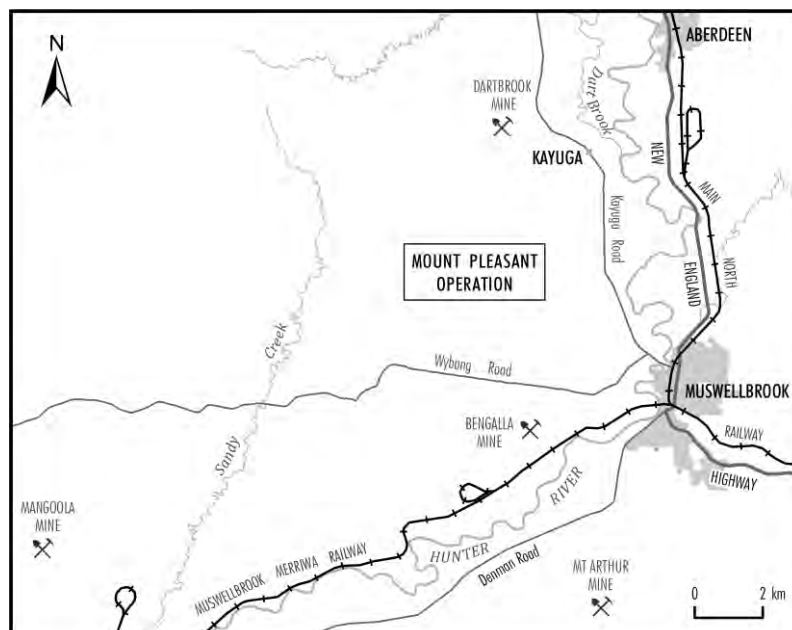


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wallangan Cultural Services  
Maree Waugh  
29 Anzac Avenue  
CESSNOCK NSW 2325

Dear Maree,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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MACH Energy Australia Pty Ltd

C/- Julie Fletcher

Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)

Phone: 1800 886 889

Yours sincerely,

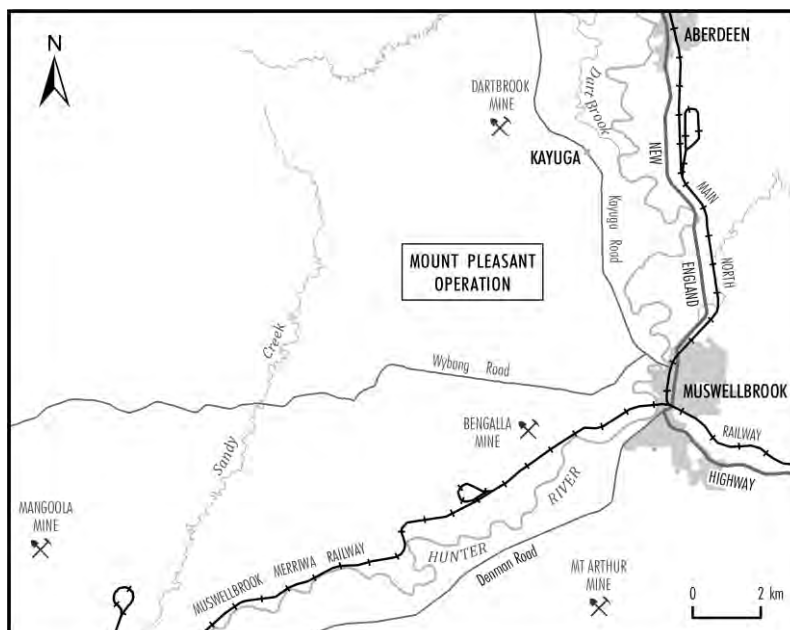


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wanaruah Aboriginal Custodians Corporation  
Maria Stocks  
10 Tulloch Close  
SINGLETON NSW 2330

Dear Maria,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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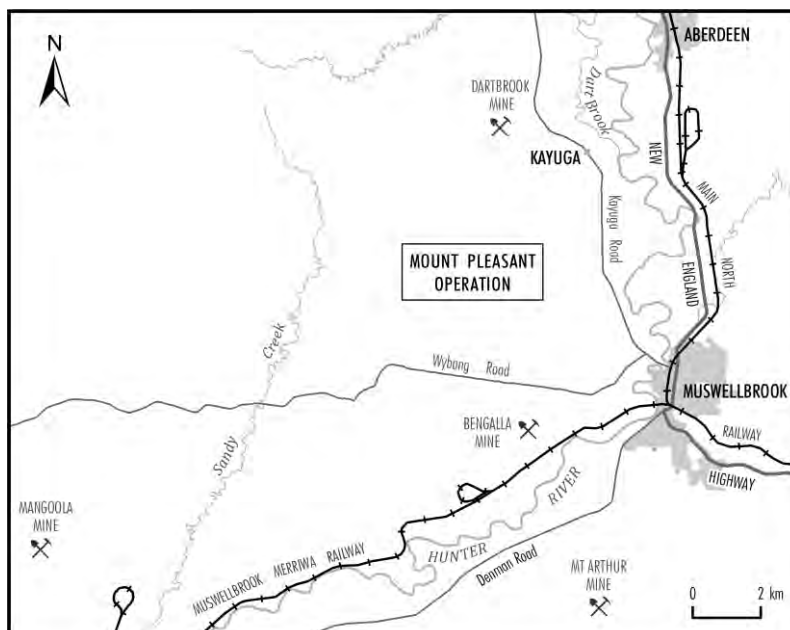


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

ME Griffiths Cultural Management  
Marie-Ellen Griffiths  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Marie-Ellen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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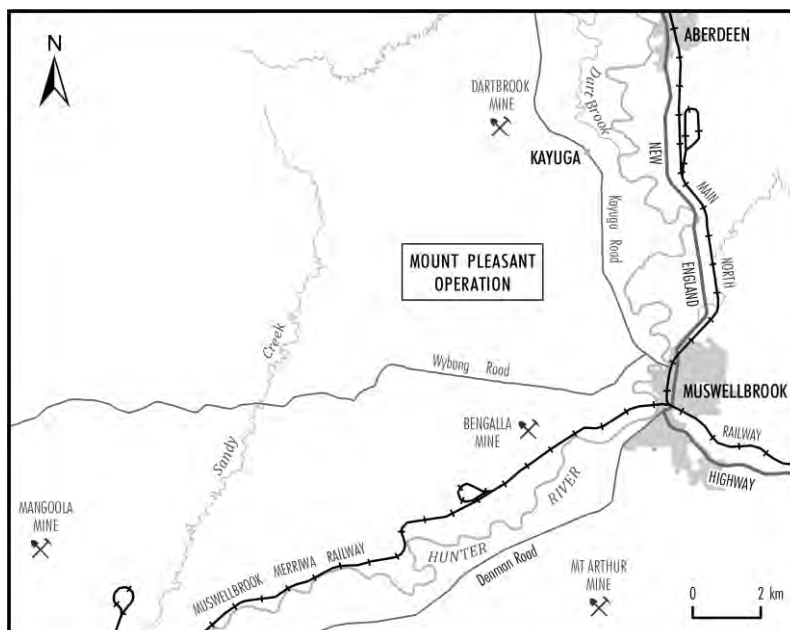
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C/- Julie Fletcher  
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Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Kayaway Eco-Cultural and Heritage Services  
Mark Hickey  
6/22 Government Street  
THORNTON NSW 2322

Dear Mark,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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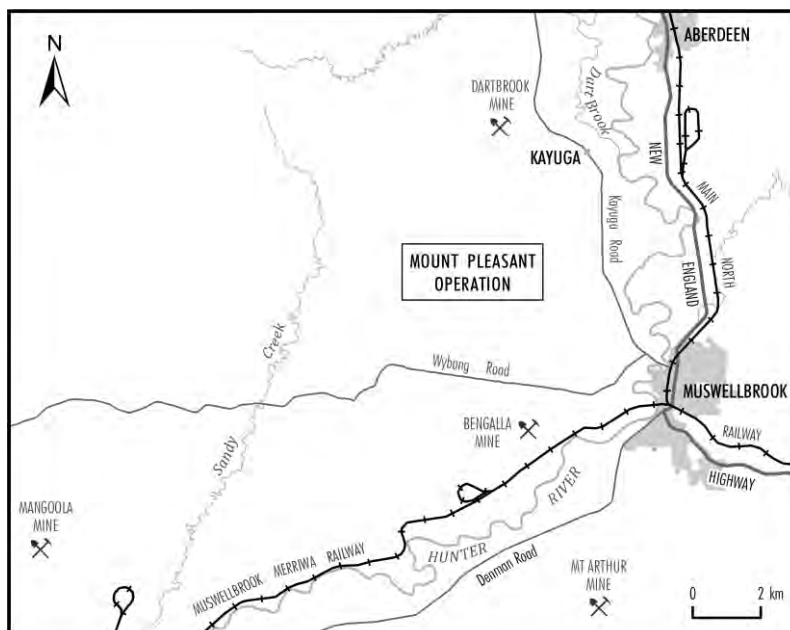


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**





29 May 2017

Marvonia Welsh  
1 Yabsley Avenue  
MARRICKVILLE NSW 2204

Dear Marvonia,

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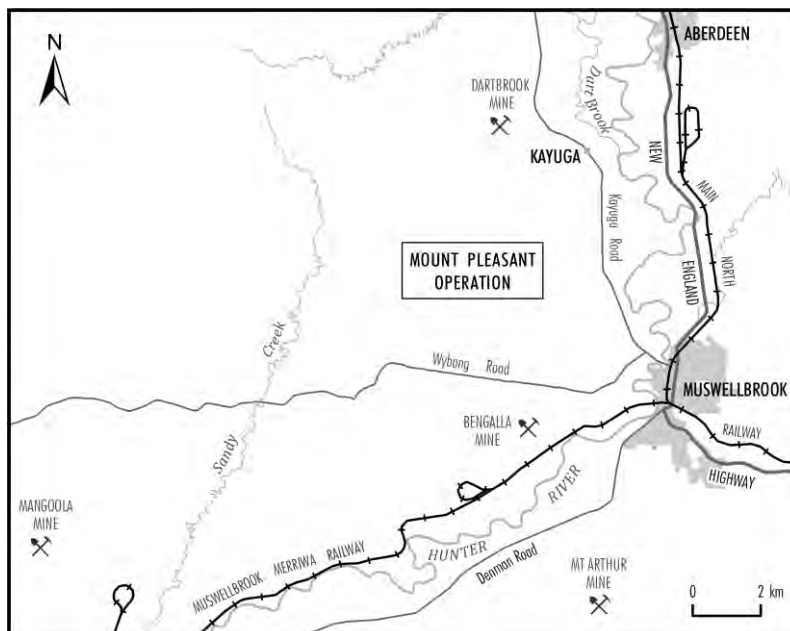
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Yours sincerely,



**Chris Lauritzen**  
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MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Michele Stair  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Michele,

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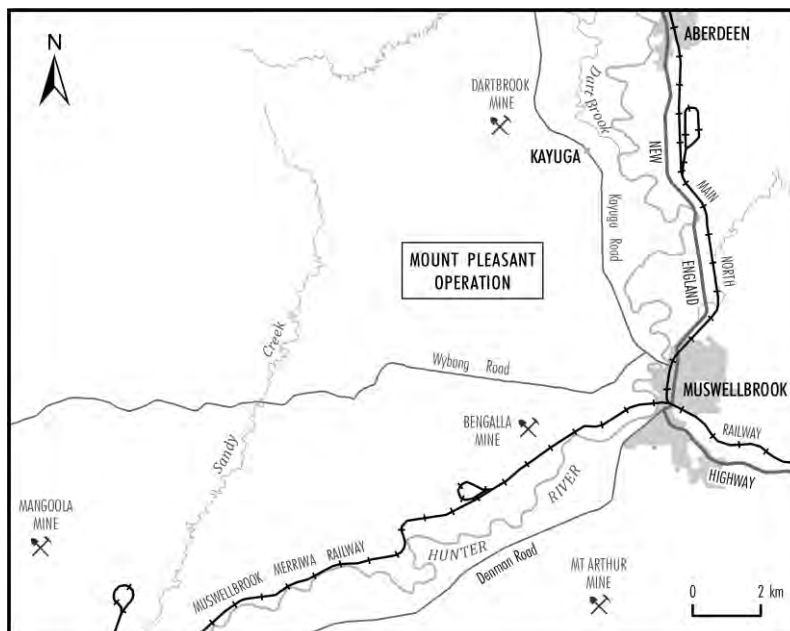
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Jumbunna Traffic Management Group Pty Ltd  
Norm Archibald  
17 Flowburn Avenue  
WAUCHOPE NSW 2446

Dear Norm,

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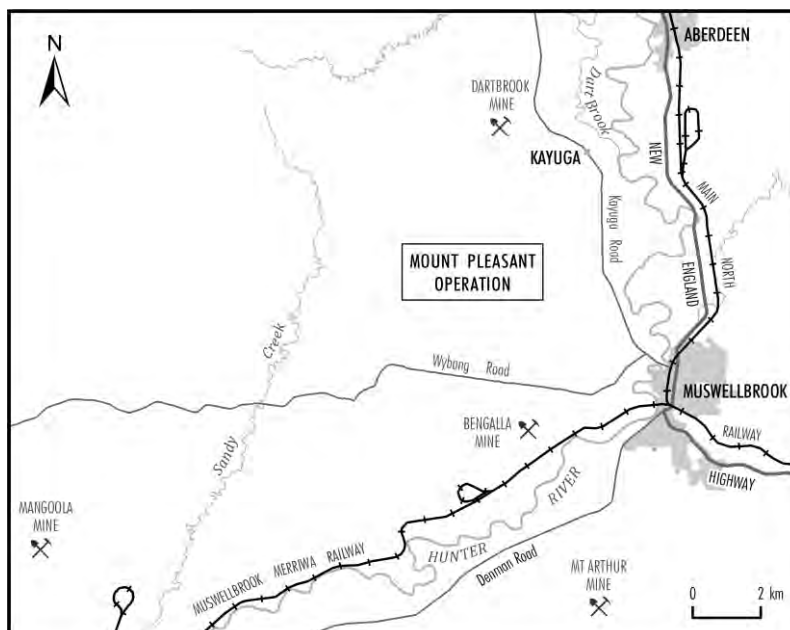
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MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

HTO Environmental Management Services  
Paulette Ryan  
165 Susan Street  
SCONE NSW 2337

Dear Paulette,

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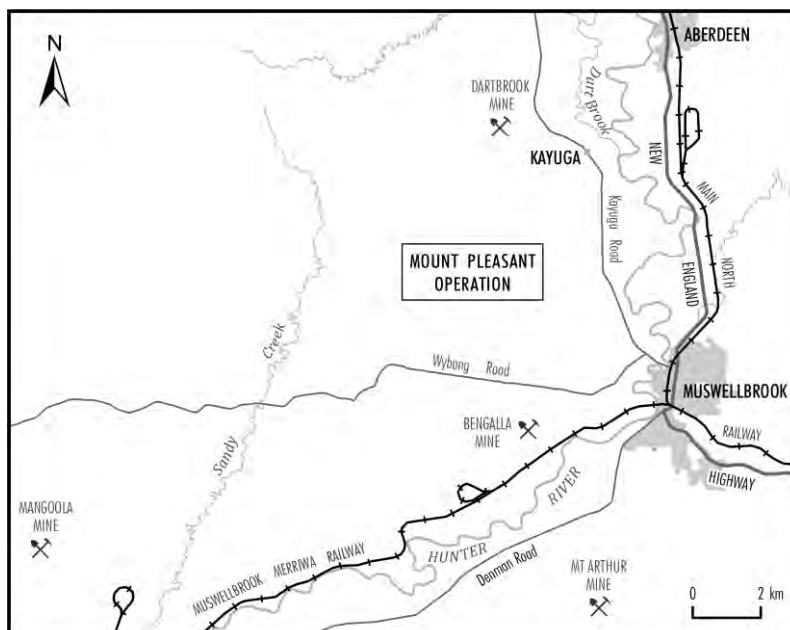


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wonnarua Culture and Heritage  
Rebecca Lester  
20 Regent Street  
CESSNOCK NSW 2325

Dear Rebecca,

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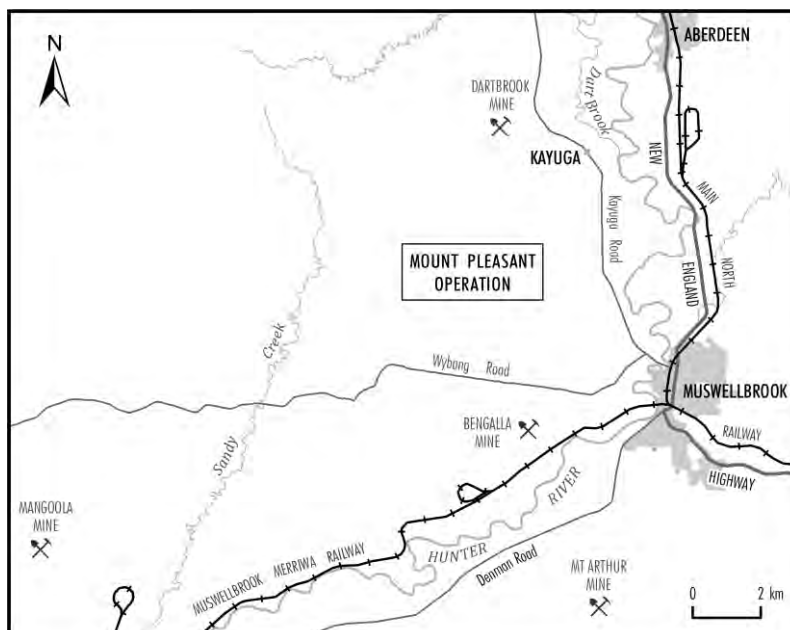
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Upper Hunter Wonnarua Council Incorporated  
Rhoda Perry  
PO Box 184  
SINGLETON NSW 2330

Dear Rhoda,

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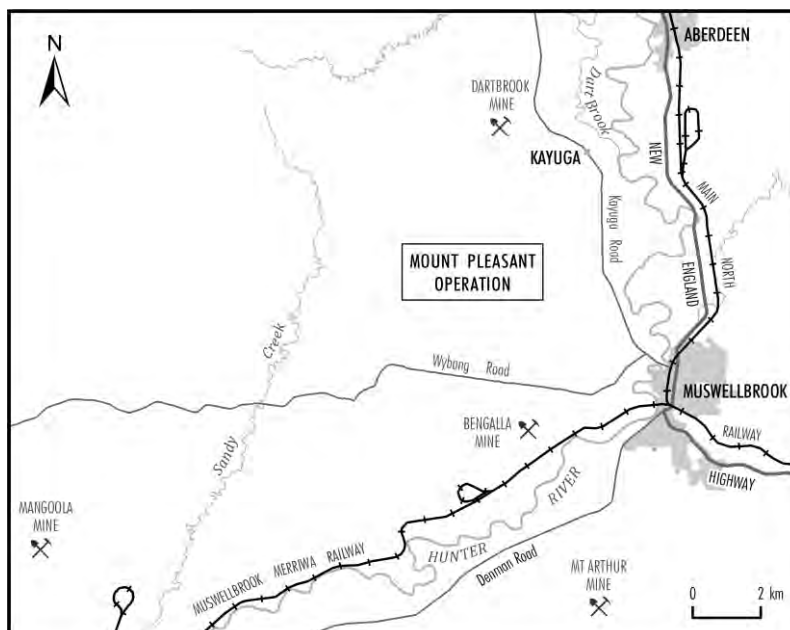
MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hunter Valley Aboriginal Corporation  
Rhonda Griffiths  
PO Box 579  
MUSWELLBROOK NSW 2333

Dear Rhonda,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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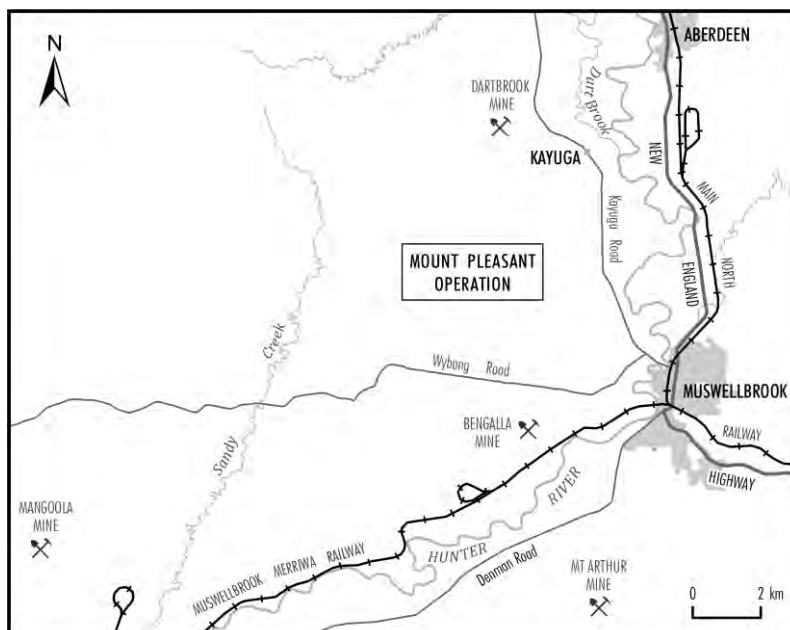


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Ungooroo Cultural & Community Services Inc  
Rhonda Ward  
8 Blaxland Avenue  
SINGLETON NSW 2330

Dear Rhonda,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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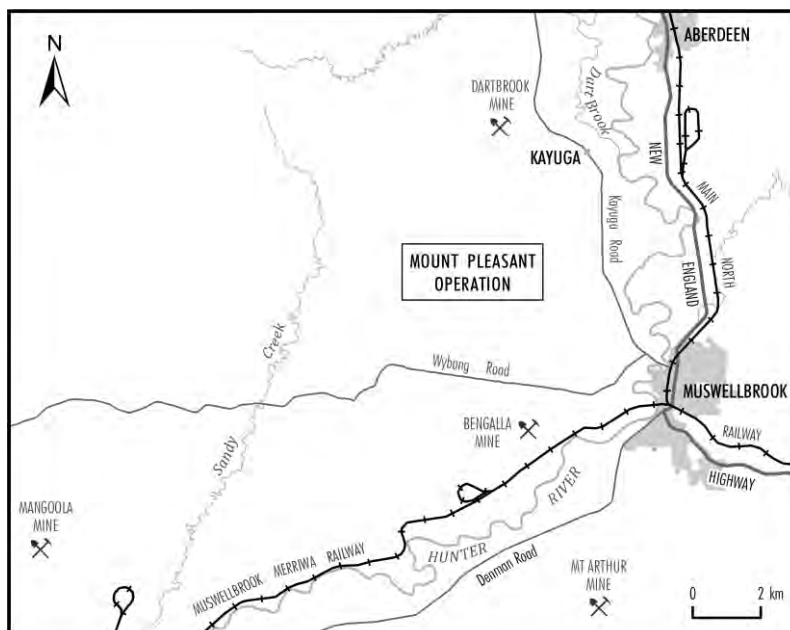


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Hunter Valley Traditional Owner Environmental Management Services  
Rick Coles  
PO Box 1042  
SINGLETON NSW 2330

Dear Rick,

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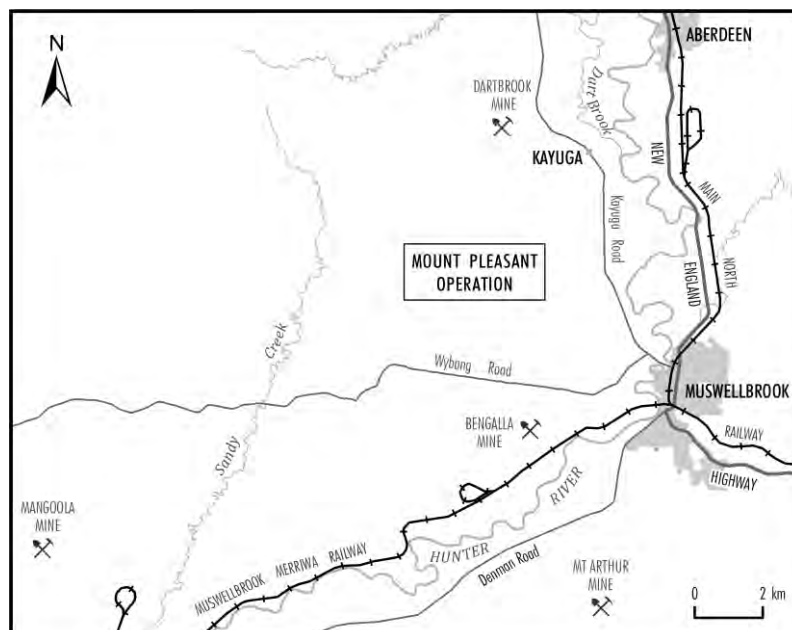


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Murrawan Cultural Consultants  
Robert Smith  
33 Clift Street  
HEDDON GRETA NSW 2321

Dear Robert,

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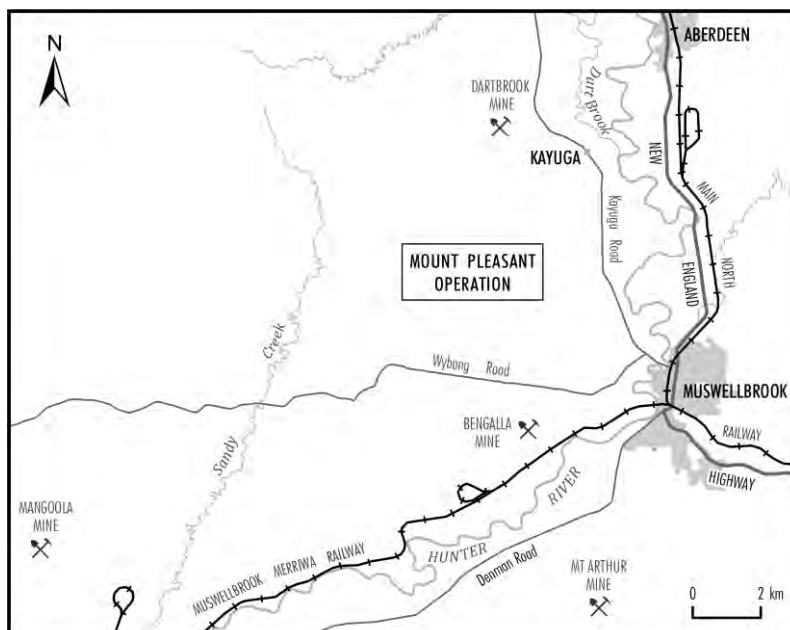


**Chris Lauritzen**

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**Plan showing 'Area of Interest'**



29 May 2017

Kawul Cultural Services  
Rodney Hickey  
33 Gardner Circuit  
SINGLETON NSW 2330

Dear Rodney,

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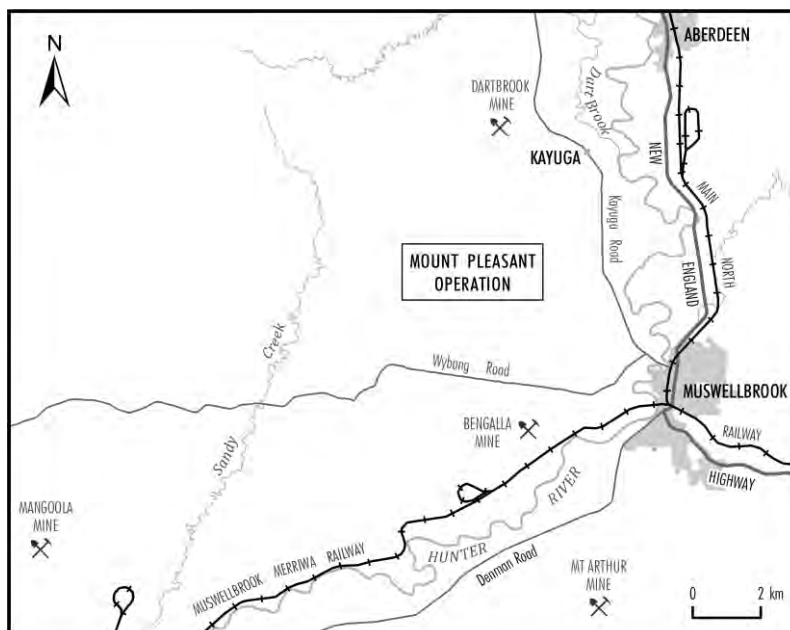


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Giwiirr Consultants  
Rodney Matthews  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

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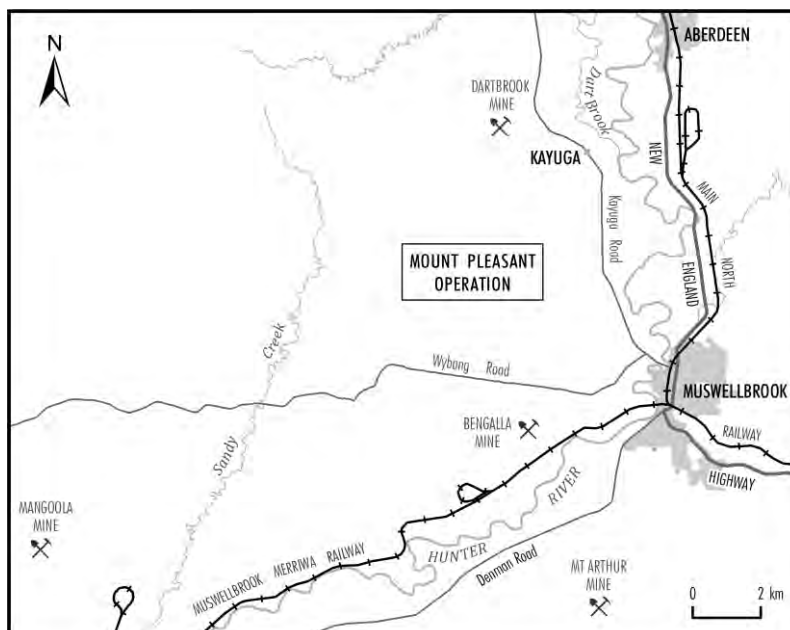


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Roger Noel Matthews  
3 Nowland Street  
MUSWELLBROOK NSW 2333

Dear Roger,

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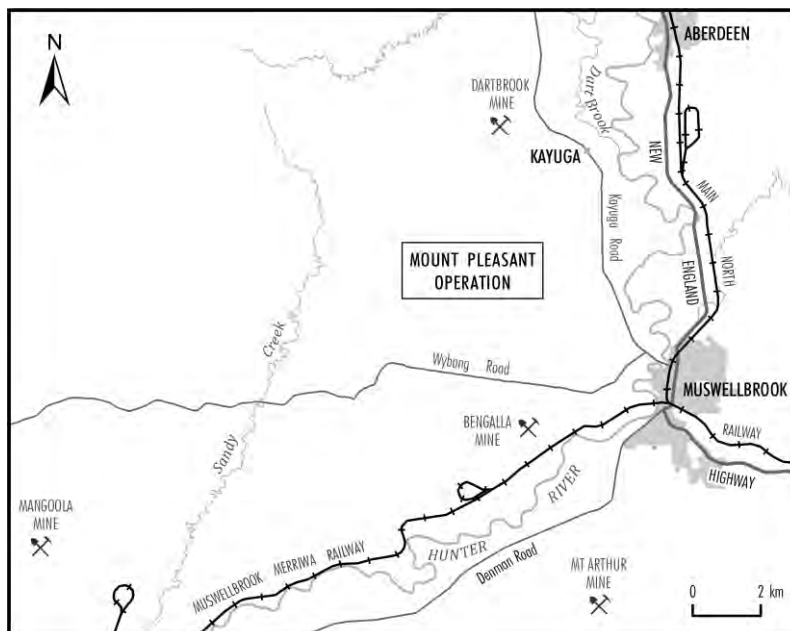
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Tocomwall Pty Ltd  
Scott Franks  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott,

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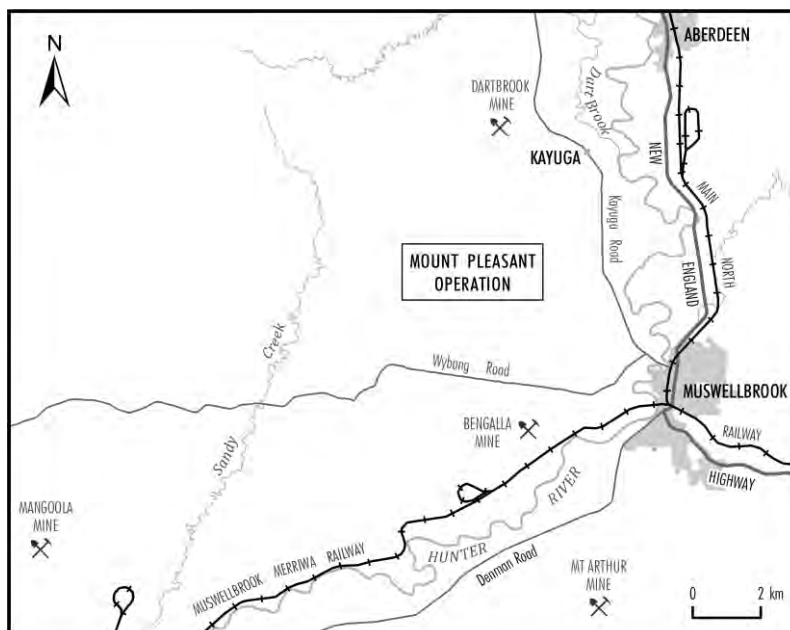


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Plains Clans of the Wonnarua People Registered Native Title Claim  
Scott Franks & Robert Lester  
C/- Tocomwall Pty Ltd  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott and Robert,

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C/- Julie Fletcher

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Phone: 1800 886 889

Yours sincerely,

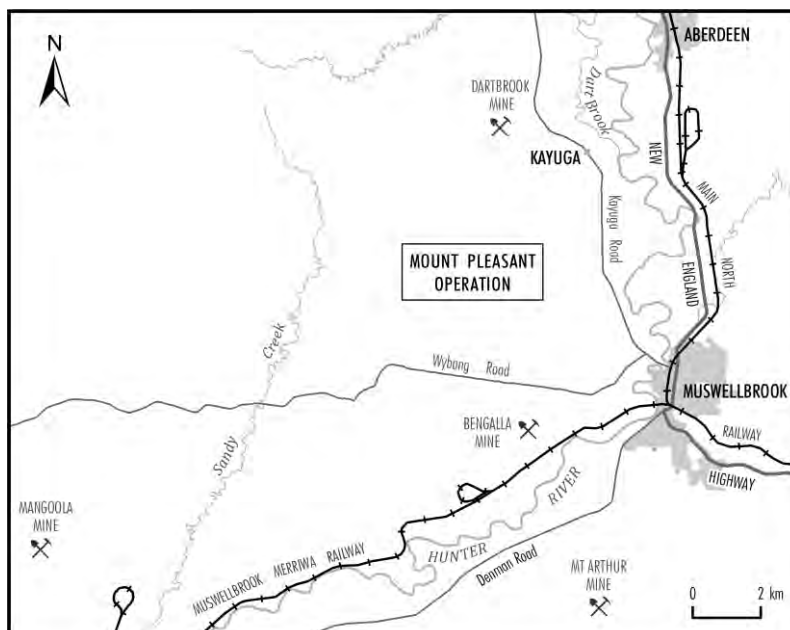


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Gomeroi Namoi Traditional Owners  
Stephen Talbott  
73 Kiah Road  
GILLIESTON HEIGHTS NSW 2321

Dear Stephen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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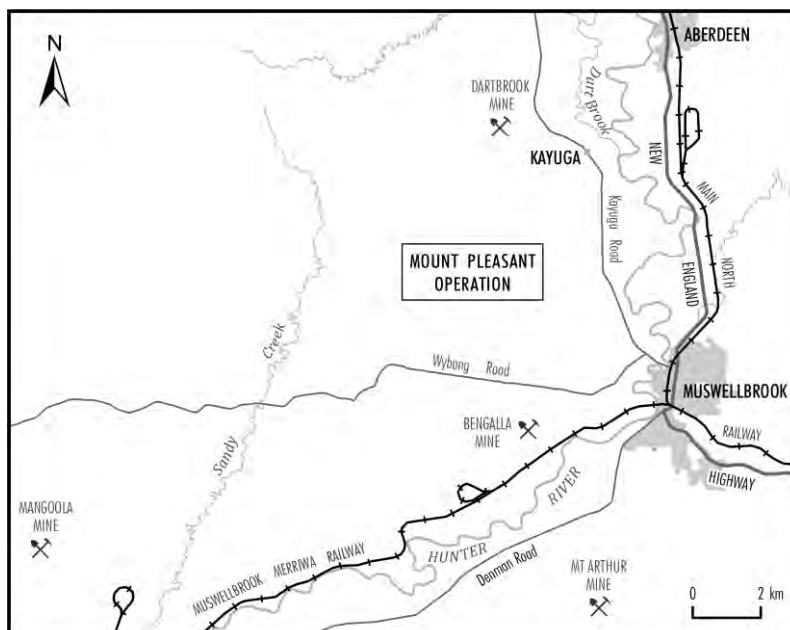


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Widescope Indigenous Group Pty Ltd  
Steven Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Steven,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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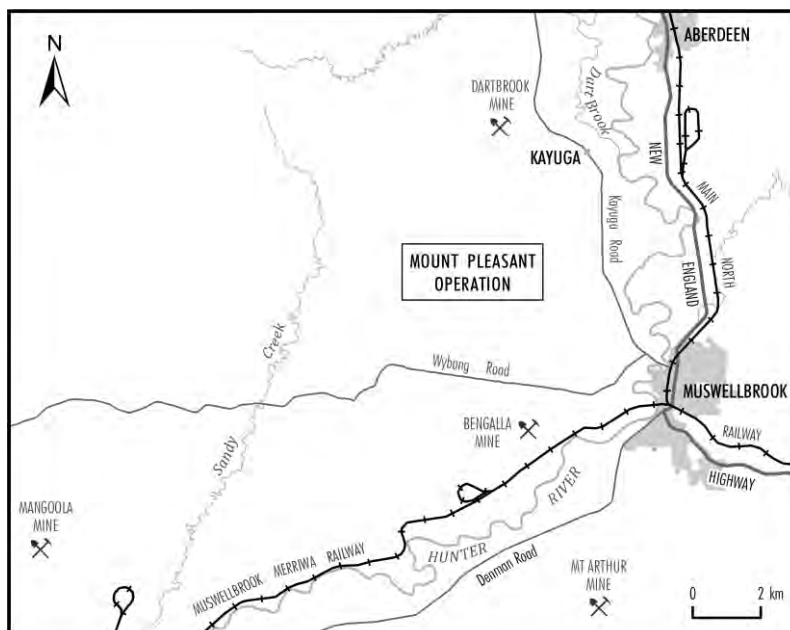


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Moreeites  
Susan Cutmore  
11/97 Brook Street  
MUSWELLBROOK NSW 2333

Dear Susan,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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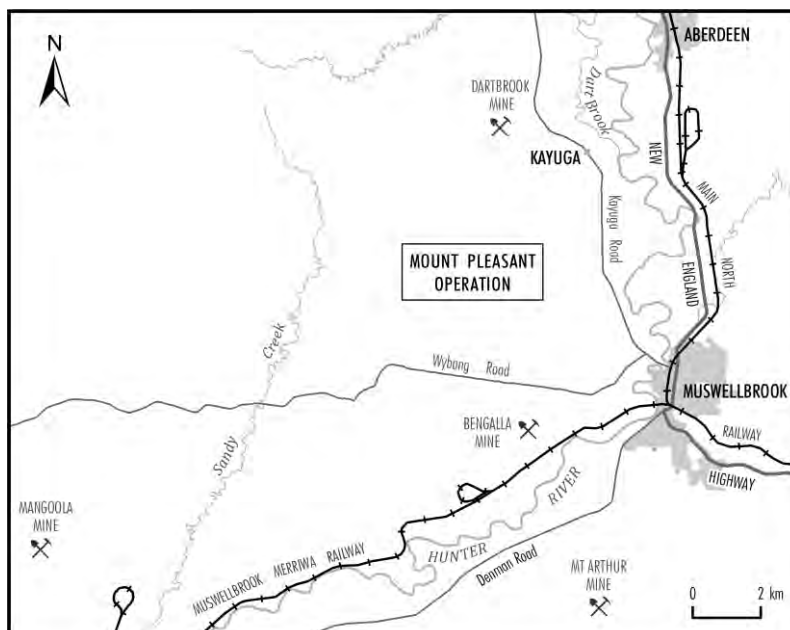


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Wanaruah Local Aboriginal Lands Council  
Suzie Worth & Noel Downs  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Suzie and Noel,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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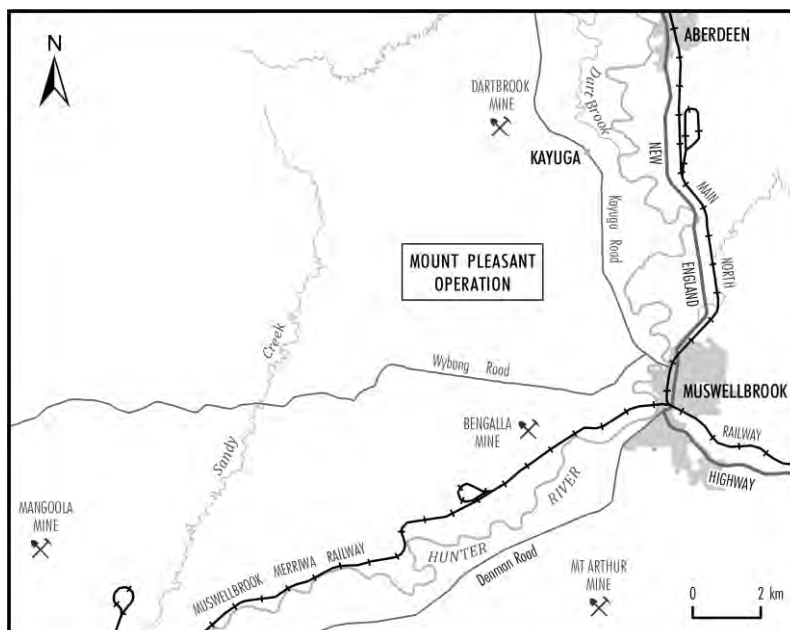
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Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Bunda Counsultants  
Tammy Knox  
23 Cunningham Street  
TAMWORTH NSW 2340

Dear Tammy,

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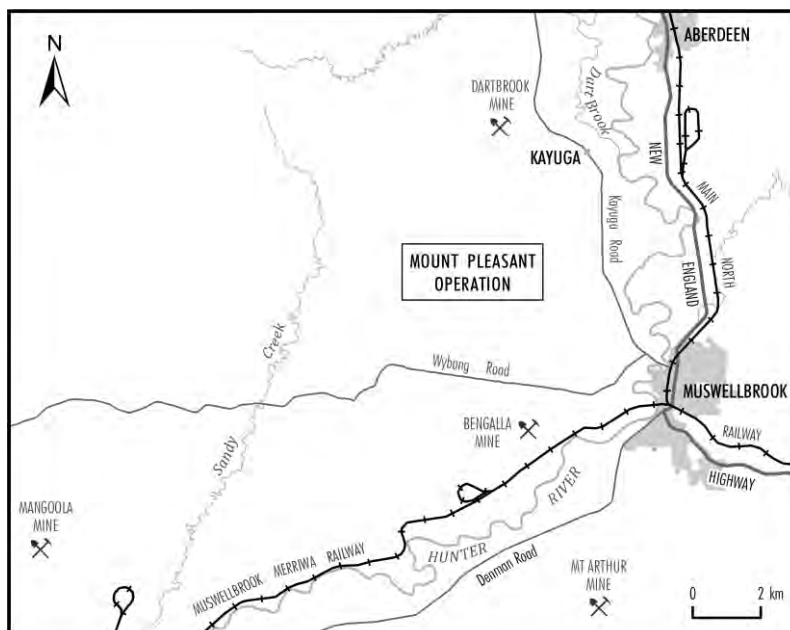


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Breeza Plains Culture and Heritage Consultants  
Terry Matthews  
396 Armidale Road  
TAMWORTH NSW 2340

Dear Terry,

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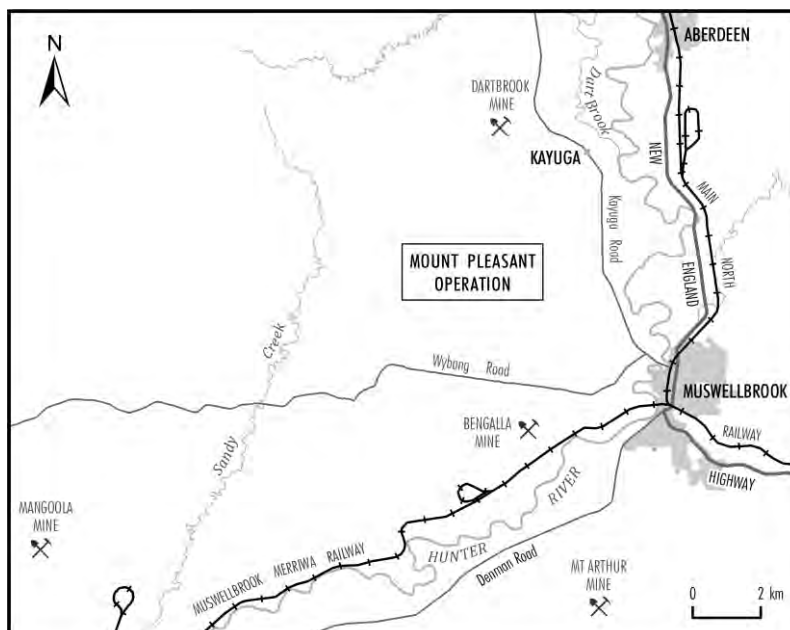
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**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Smith Dhagaans Cultural Group  
Timothy Smith  
46 Springvale Circuit  
CAMERON PARK NSW 2285

Dear Timothy,

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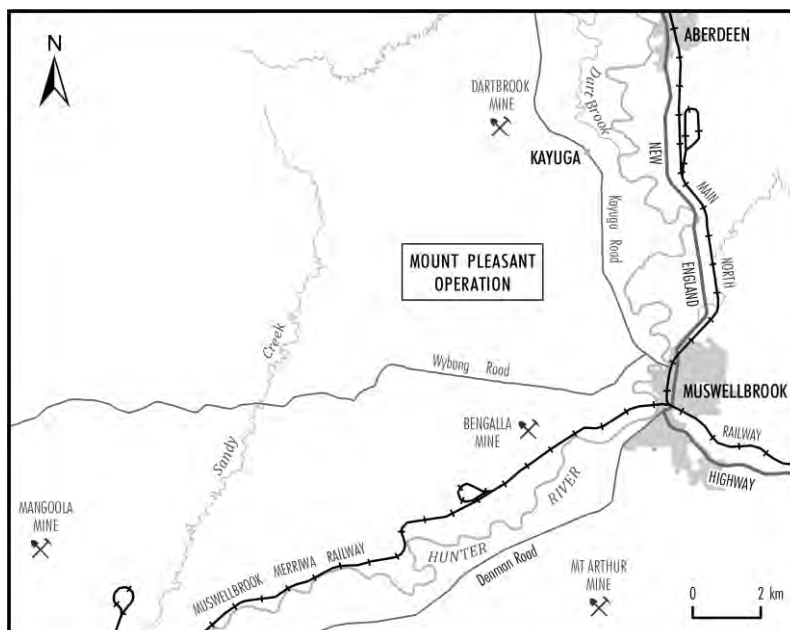
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**Chris Lauritzen**  
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**Plan showing 'Area of Interest'**



29 May 2017

Lower Hunter Wonnarua Council Inc.  
Tom Miller  
51 Bowden Street  
HEDDON GRETA NSW 2321

Dear Tom,

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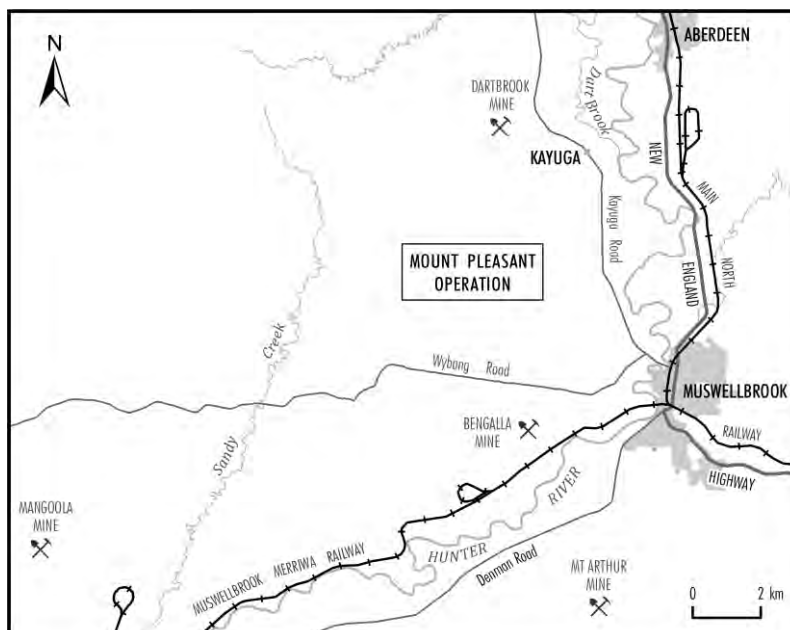
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MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

T & G Culture Consultants  
Tony Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Tony,

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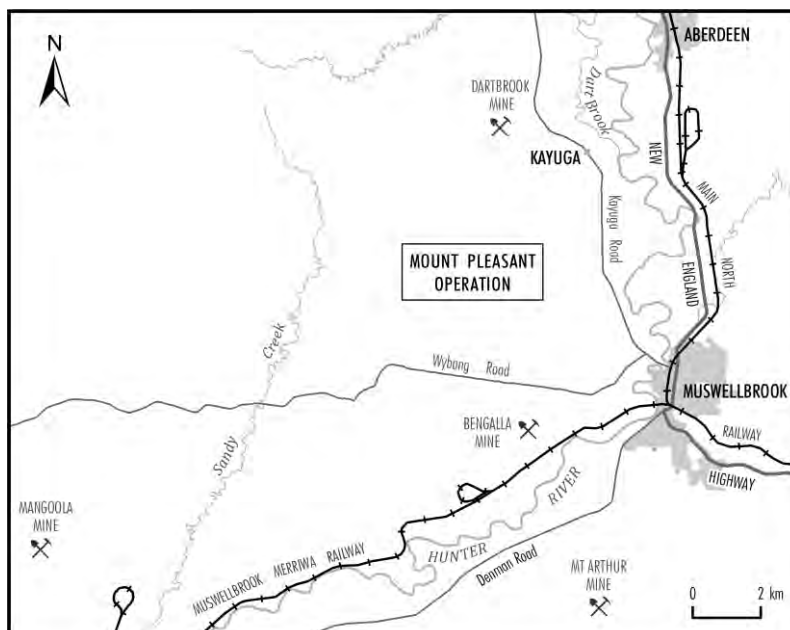


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Culturally Aware  
Tracey Skene  
7 Crawford Place  
MILLFIELD NSW 2325

Dear Tracey,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

**As described below, and due to your previous involvement at the Mount Pleasant Operation, you have been automatically registered for the consultation process. You do not need to contact MACH Energy to re-register.**

As part of these environmental approvals, MACH Energy will be preparing an Aboriginal Cultural Heritage Assessment(s), and therefore may seek a new Aboriginal Heritage Impact Permit (AHIP) under section 90 of the NSW National Parks and Wildlife Act, 1974 to move and/or destroy Aboriginal objects (or a variation to the existing permits [AHIP #C0002053, #C0002092]). The subject area of the any such application is depicted as the “Area of Interest” as shown on the plan below.

In accordance with the requirements as set out in the Aboriginal cultural heritage consultation requirements for proponents 2010 (NSW Department of Environment, Climate Change and Water, 2010) (Consultation Guidelines) issued by the NSW Office of Environment and Heritage, MACH Energy is required to conduct a community consultation process with relevant Aboriginal people to assist in the preparation of the Aboriginal Cultural Heritage Assessment. This includes:

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- Writing to the Aboriginal persons or groups identified by the above process to notify them of the Mount Pleasant Operation and invite them to register an interest in the community consultation process.

- Placing a notice in a local newspaper and inviting Aboriginal persons or groups to register an interest in the community consultation process.

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Should you have any queries regarding your registration, please do not hesitate to contact MACH Energy via the following contact details:

MACH Energy Australia Pty Ltd

C/- Julie Fletcher

Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)

Phone: 1800 886 889

Yours sincerely,

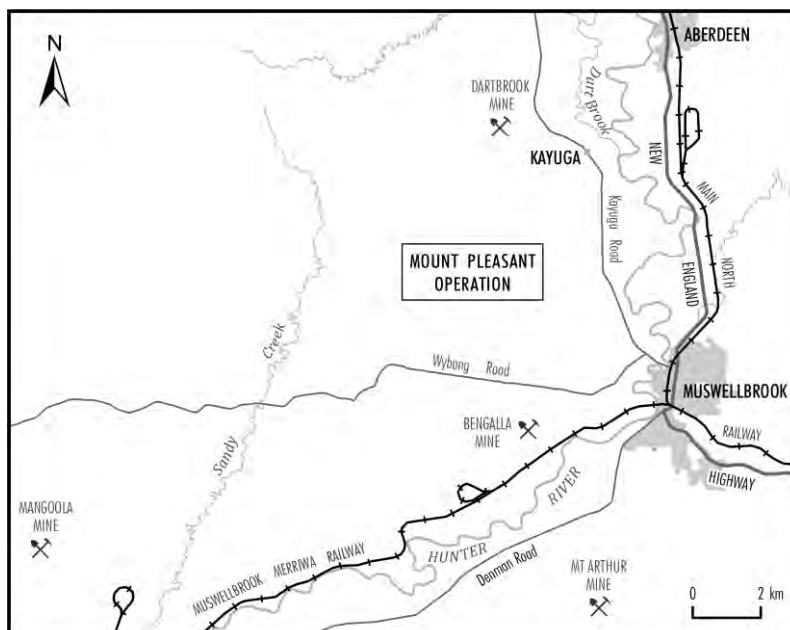


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

My Land Cultural Heritage  
Warren Schillings  
4 Wattle Street  
GUNNEDAH NSW 2380

Dear Warren,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Phone: 1800 886 889

Yours sincerely,

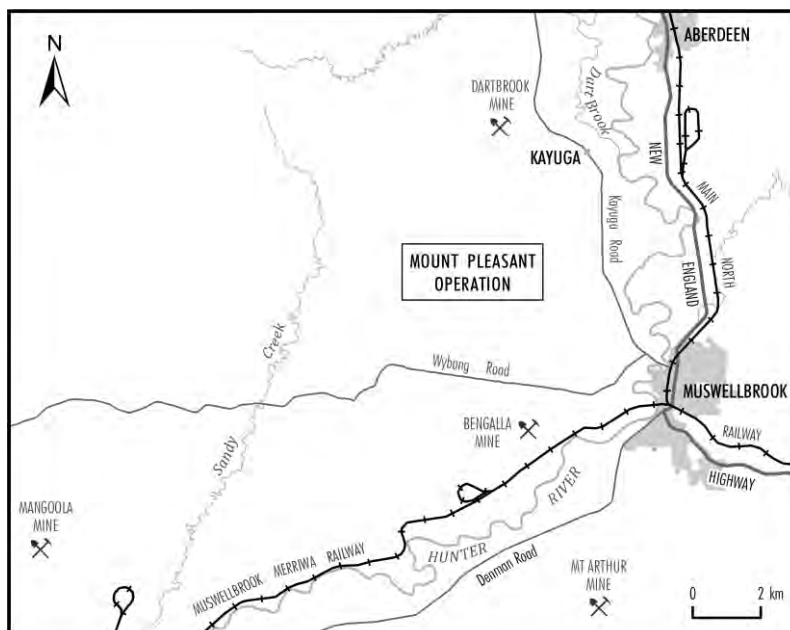


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Warren Taggart  
78 Castlereagh Street  
SINGLETON NSW 2330

Dear Warren,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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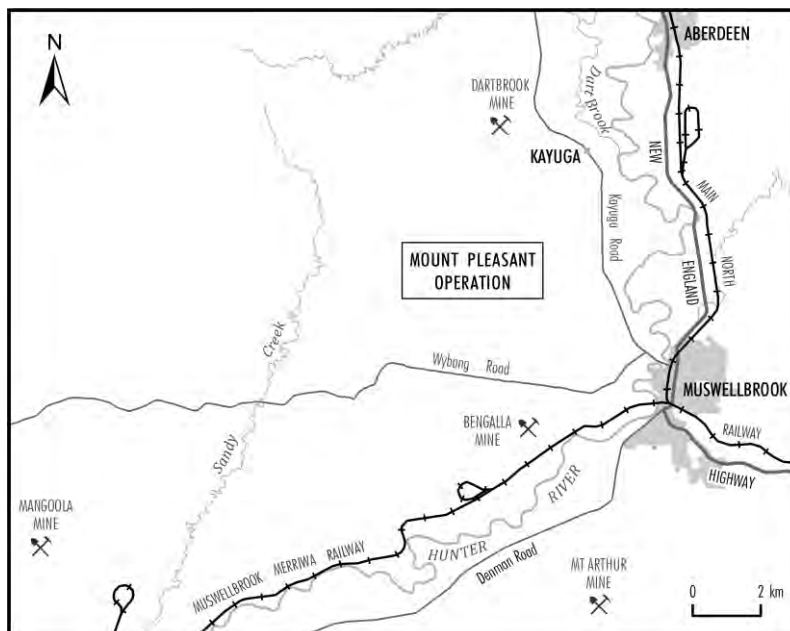
MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



29 May 2017

Bigundi Biame Traditional People  
Wayne Griffiths  
16 South Street  
GUNNEDAH NSW 2380

Dear Wayne,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

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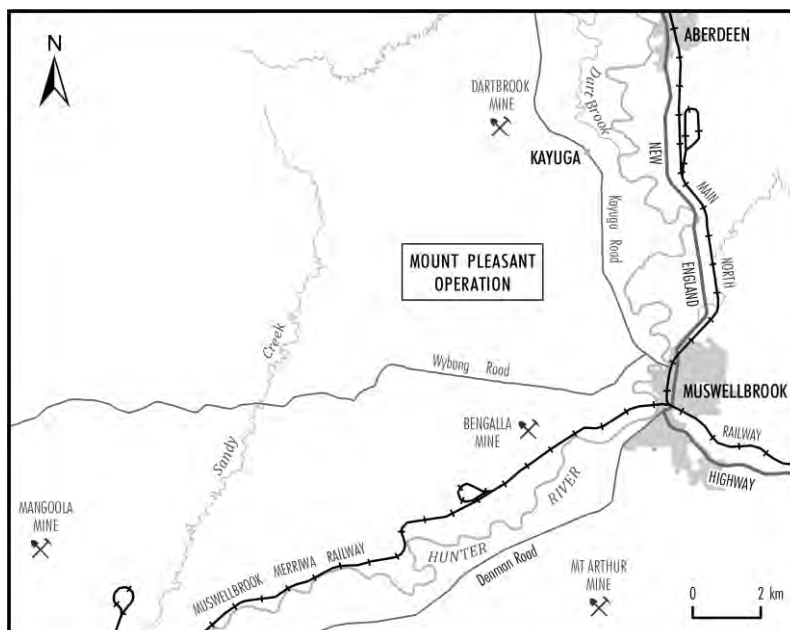
MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

Yours sincerely,



**Chris Lauritzen**  
General Manager – Resource Development  
MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



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**Subject:**

FW: Registraion / Mount Pleasant Operation Aboriginal Heritage

**From:** "Carolyn .H" <[cazadirect@live.com](mailto:cazadirect@live.com)>

**Date:** 3 July 2017 at 3:26:41 am GMT+1

**To:** "[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)"

<[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>

**Subject:** Registraion / Mount Pleasant Operation Aboriginal Heritage

### **A1 Indigenous Services**

Contact: Carolyn

M: 0411650057

E: [Cazadirect@live.com](mailto:Cazadirect@live.com)

A: 73 Russell St, Emu Plains NSW 2750

ABN: 20 616 970 327

### **Amanda Hickey Cultural Services**

Contact : Amanda Hickey

Address : 73 Russell Street, Emu Plains

Email ; [amandahickey@live.com.au](mailto:amandahickey@live.com.au)

Mobile : 0434 480 558

ABN : 498 242 132 40

Hi Julie ,

**A1 Indigenous Services** and **Amanda Hickey Cultural Services** would like to register for consultation and an field work for this project, We hold cultural knowledge of this area. Insurances Attached.

Thank you

Carolyn Hickey

Amanda Hickey DeZwart

---

**Subject:**

FW: MPO ACHA Correspondence - Amanda Howard

**From:** Amanda Howard <[Amanda.Howard@hnehealth.nsw.gov.au](mailto:Amanda.Howard@hnehealth.nsw.gov.au)>

**Date:** 27 June 2017 at 3:30:42 am GMT+2

**To:** Julie Fletcher <[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>

**Subject:** RE: MPO ACHA Correspondence - Amanda Howard

Hi Julie

Just a quick email to let you know that I would be interested in registering so that I could be a part of the community consultation with Mach Energy, sorry for taking so long in replying to this email.

Thanks



**Amanda Howard**

Aboriginal Health Liaison Officer | **Upper Hunter Community Health**

The Cottage, Corner Brentwood and Brecht Street Muswellbrook

Tel (02) 6542 2760 | Fax (02) 6542 2001 | Mob 0408 663 243 |

[Amanda.Howard@hnehealth.nsw.gov.au](mailto:Amanda.Howard@hnehealth.nsw.gov.au)

[www.health.nsw.gov.au](http://www.health.nsw.gov.au)

I would like to acknowledge the Traditional Custodians of the Land that I work on. I would like to pay my respects to our Elders Past and Present and Future.





**Hunter Valley Cultural Surveying**  
**165 Susan St Scone NSW 2337 Luke Hickey manager**  
**Ph: 0435911820 email: microlith99@gmail.com**  
**ABN: 9631450760**

**Date: 5th June 2017**

**To: MACH Energy**  
**Ph: 1800886889**  
**Email: Julie.fletcher@machenergyaustralia.com.au**

**Attn: Tessa Bryant Heritage Advisor**

**Re: Mount Pleasant Operation Aboriginal Cultural Heritage Assessment**

**Dear Julie**

**Please register my group in this cultural & heritage project we wish to have an active involvement in the works and consultation.**

**My group have relevant cultural knowledge in the area of interest**

**Please call or email if you require any further information.**

**Regards**

**Luke Hickey**  
**Manager**



# **Valley ELM Corp**

**Aboriginal & Native Title Corporation Email: valleyelmcorp@bigpond.com  
Ph: 0432977178 4 Kennedy St Singleton NSW 2330  
ABN: 42289115689**

**Date: 5th June 2017**

**To: MACH Energy**

**Re: Mount Pleasant Operation-Aboriginal Cultural Heritage Assessment.**

**Attn: Julie Fletcher**

**Email: julie.fletcher@machenergyaustralia.com.au**

**Dear Julie**

**Please register our corporation and involvement in the above said project  
Our corporation and members hold cultural knowledge relevant in the area of  
interest we have been involved in this project now for many years.  
If you require any further information please call or email.**

**Regards**

**Des Hickey  
Director & contact person**

# WARRABINGA

*Native Title Claimants Aboriginal Corporation*

DN: 2972 Incorporated In the Corporations (Aboriginal and Torres Strait Islander) Act 2006

PO Box 282

MUDGEE NSW 2850

AX: 02 4627 8633

MAIL: [info@warrabinga.com.au](mailto:info@warrabinga.com.au)



1 June 2017

Ms Julie Fletcher

MACH Energy Australia Pty Ltd

Via: [Julie.fletcher@machenergyaustralia.com.au](mailto:Julie.fletcher@machenergyaustralia.com.au)

Ms Fletcher,

**Re: Mount Pleasant Operation Aboriginal Cultural Heritage Assessment.**

Please be advised Warrabinga NTCAC would like to register for the Mount Pleasant Operation Aboriginal Cultural Heritage Assessment and be involved in all consultation, meetings and fieldwork.

All correspondence should be emailed to:  
[info@warrabinga.com.au](mailto:info@warrabinga.com.au) or posted to the details above.

Kind regards,

Kristen Kerr

## **PUBLIC NOTICES**

receive a letter indicating that in Dr Fergie's opinion you can attend the AGM and you want to attend the AGM, you should attend.

process is being done in accordance with the provisions provided to Dr Fergie unanimously at the Jarla Community Meeting on 28 October 2016. Resolution #1. Resolution #1 was passed 82 in favour, with 0 votes against and 0 abstainers.

**REGISTRATION DETAILS**  
23 June & 24 June 2017  
Time: 10:30 am 23 June 2017 (registration)  
Location: Westland Hotel Motel  
160/162 Stuart Avenue  
Maitland NSW 2320  
For more contact the below details to register your interest at the meeting

**CONTACT:**  
Mr Sidhu  
Waterhouse Lawyers  
u@normans.com.au  
02 1249 1249



National  
Native Title  
Tribunal

Registering the Federal Court of Australia (Federal Court) now.

Persons must write to the Registrar of the Federal Court, 4003 on or before 13 September 2017. A fee of \$1000 per party is required.

Registration of native title for a particular area. If a party to any of these applications, there may be objections, to take into account those native title claims.

Alex Davidson & Ors on behalf of the Kabi Kabi Nation and State of Queensland  
No: QUD908/2016  
September 2016

Status: The Native Title Registrar has **accepted** registration.

Application area covers about 719 sq km and is located about 19 km north of Brisbane.

Queensland State Government, Brisbane Regional Council and Brisbane City Council

Yuwaalaraay/Euahlayi People and State

No: QUD32/2017  
January 2017

Status: The Native Title Registrar has **accepted** registration.

Application area covers about 5483 sq km and is located about 17 km south of St George.

Shire Council

For more information, call Sylvia Jagtman on freecall 1800 640 501

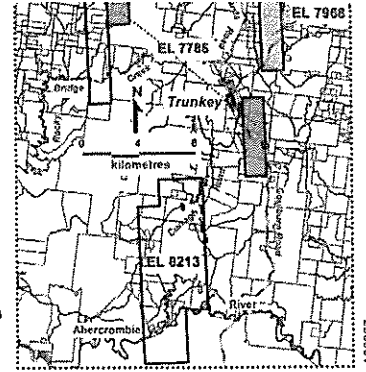
Minister for Resources. The licence holder has sought the Minister's consent to conduct prospecting activities.

Name and postal address of person by whom the act would be done

Minister for Resources, PO Box 344, Hunter Region Mail Centre, NSW 2310.

Notification Day

For the purposes of Section 29(4) of the Native Title Act 1993 (C'th) the notification day is 14 June 2017. Under Section 30 of that Act persons have until 3 months after the notification day to take certain steps to become native title parties in relation to this notice.



How further information about the act can be obtained: Further information may be obtained from Jedda Hoffman; Titles Services, NSW Department of Planning and Environment, (02) 4931 6424.

Mount Pleasant Operation  
Aboriginal Cultural Heritage Assessment

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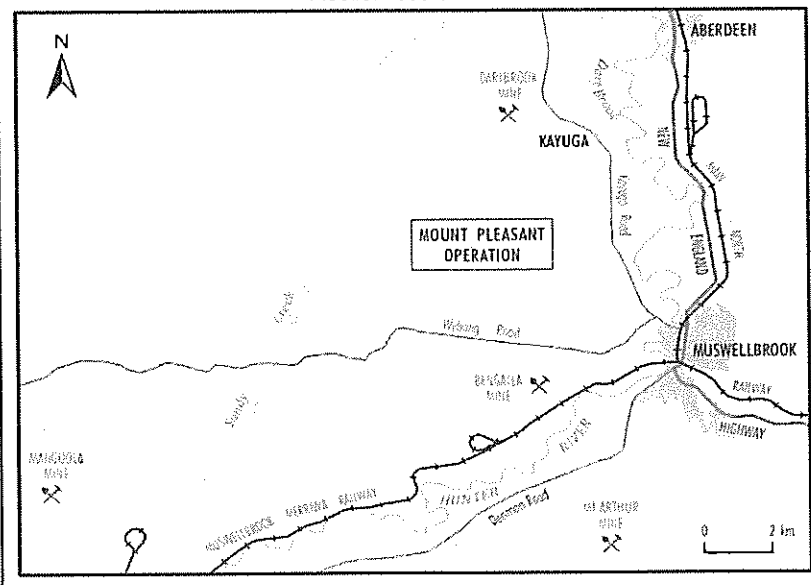
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MACH Energy advises that the details of any Aboriginal person or group who registers an interest in the consultation process for the Mount Pleasant Operation will be forwarded to the NSW Office of Environment and Heritage and the Wanaruah Local Aboriginal Land Council in accordance with Section 4.1.5. of the Consultation Guidelines, unless they specify that they do not want their details released.

Please note that any opportunities for engagement during the Aboriginal Cultural Heritage Assessment process would be separate to the consultation process.

Contact details for registration are as follows. Registrations must be made by 5.00pm AEST on Friday 16 June 2017.

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889



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Connect with **Classifieds**

Phone: 02 6572 2611  
Email: [classifiedshunter@fairfaxmedia.com.au](mailto:classifiedshunter@fairfaxmedia.com.au)



Public Notices

**PUBLIC NOTICE**  
**Temporary Road Closure**  
Liddell Coal Operations advises that the Old New England Hwy may be closed between 9:00am - 5:00pm from **Monday 5th June to Saturday 10th June 2017** for the purposes of blasting. The closure could be up to 20 minutes in duration. If weather conditions are unfavourable, blasting will be delayed.  
For updated information on this blast or any other blasts at Liddell Coal Operations, please contact free call 1800 037 317.

**SINGLETON ARGUS CLASSIFIEDS 65722611**

For all your classifieds needs

Public Notices

Public Notices

**PENTECOST**  
The members of the Christian Israelite Church invite you to join us at our Church Hall Goulburn Street for our annual concert to celebrate  
**Pentecost / Whitsuntide**  
Saturday 3rd June at 7.30pm

**COAL & ALLIED**  
*Managed by Rio Tinto Coal Australia*

**PUBLIC NOTICE**  
**For updated blast times please phone free call 1800 099 669.**  
Mount Thorley Warkworth wishes to advise of the following road closures on Wednesday 31st May, Thursday 1st June, Friday 2nd June, Monday 5th June, Tuesday 6th June and Wednesday 7th June 2017 for the purposes of blasting. Closure will occur between 9am and 5pm depending upon weather conditions and will be for approximately 10 minutes.  
**Through traffic will not be possible while road closures are in place.**  
**PUTTY ROAD** will be closed between the Jerrys Plains Road and to a point 600m West of Charlton Road.  
**CHARLTON ROAD** will be closed between Putty Road and Cobcroft Road.  
**WALLABY SCRUB ROAD** will be closed between Putty Road and Jerrys Plains Road.  
**JERRYS PLAINS ROAD** may be closed from Long Point Road to Wallaby Scrub Road.  
If weather conditions are poor, blasting will be delayed until a day of suitable weather. Mount Thorley Warkworth apologises for any inconvenience caused.

**Wanted to Buy**  
**OLD SURFBOARDS**  
Single & twin fins  
Any condition.  
PH: 0402 651 760.

**Wanted To Lease**  
**WANTED TO RENT SINGLETON, 3-4 b/r**  
house, 2 bathrooms, for mature couple with 3 well behaved small dogs, relocating from Aberdeen excellent ref. Phone 0407 088 480.

Positions Vacant

**COOLMORE AUSTRALIA**  
Coolmore Australia, a leading thoroughbred horse stud located in the Upper Hunter Valley in Jerrys Plains has the following positions available:  
**Experienced Fencer**  
Duties will include all facets of fencing (ie: post and rail) post mortising and chainsaw work. Previous experience would be highly regarded.  
**Experienced Farm Hand**  
Duties will include tractor work, fencing, irrigation and general farm work. A current Drivers licence is essential for all positions. Please ensure you state which position you are applying for.  
Applications including a current Resume should be sent to [recruit@coolmore.com.au](mailto:recruit@coolmore.com.au)

Positions Vacant

**PLANT MECHANICS**  
EML Maintenance are seeking fully qualified Plant Mechanics to join our team in the field. There are 3 casual positions available with the potential to turn permanent after the probationary period.  
You will be rostered on an attractive roster rotating day and night shifts.  
The successful candidates will be remunerated with competitive rates that will reflect your experience.  
Previous experience in fault finding on large Caterpillar and Liebherr equipment would be advantageous.  
If you have any questions or would like to apply please forward your resume to [mark.lennard@emlmaintenance.com](mailto:mark.lennard@emlmaintenance.com) or call Mark on 0417 275 911.

**Hunter Admin** 

*Business made easy...*

The team at Hunter Admin have the local knowledge and connections to find the right person for the right job. Our recruitment staff have over 100 years' worth of experience in the industry specialising in all facets of administration. We talk the lingo employers and candidates understand and offer a flexible approach to staffing offering both labour hire and permanent recruitment solutions.  
We urgently seek expressions of interest for the following positions as temporary assignments and permanent positions:  
**Administration Roles**

- Trainees to advanced level skills
- Medical Receptionists

**Accountants**

- Bookkeeper to Senior Accountant

**Stores persons**

- Must have current forklift ticket

**Purchasing Officer**

- Must have negotiation skills

**Maintenance Scheduler**

- Accurate data entry skills and flexibility to work shifts

To express interest in any of the above positions in the first instance send resume and cover letter to:  
Gerard Abrams  
[info@hunteradmin.com.au](mailto:info@hunteradmin.com.au)  
[www.hunteradmin.com.au](http://www.hunteradmin.com.au)  
0498 007 696

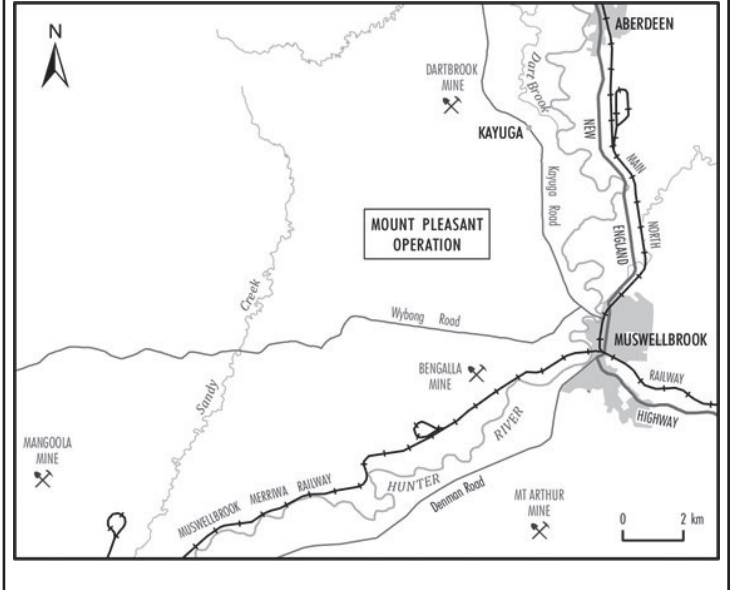
Positions Vacant

**ADVERTISERS PLEASE NOTE** Much hardship and difficulty is caused to job-seekers by misleading advertising placed in the employment columns. Our Positions Vacant columns are reserved for advertisements which carry a specific and genuine offer of employment.  
Ads for 'Business Opportunities', 'Commission Only', training courses and employment services should be submitted under those headings.  
Placing misleading ads is an offence against the Trade Practices Act and State/Territory Fair Trading Acts and all advertisements are subject to the publisher's approval. For advice contact the Australian Competition and Consumer Commission or local consumer affairs agency.

**PLANT OPERATORS**  
Dozer, Excavator & Dump Truck operators.  
Muswellbrook earth-mover seeks exp/reliable people for local jobs. Good, consistent work for right people.  
For details phone Jim 0428 689 102  
Email resumes to: [warren@robbos.net](mailto:warren@robbos.net)

**SINGLETON ARGUS CLASSIFIEDS 65722611**

**Mount Pleasant Operation**  
**Aboriginal Cultural Heritage Assessment**  
The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW). MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).  
As part of these environmental approvals, MACH Energy will be preparing an Aboriginal Cultural Heritage Assessment(s), and therefore may seek a new Aboriginal Heritage Impact Permit (AHIP) under section 90 of the NSW *National Parks and Wildlife Act, 1974* to move and/or destroy Aboriginal objects (or a variation to the existing permits [AHIP #C0002053, #C0002092]). The subject area of any such application is depicted as the 'Area of Interest' as shown on the plan below.  
MACH Energy is required to conduct a community consultation process with relevant Aboriginal people to assist in the preparation of the Aboriginal Cultural Heritage Assessment. Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal objects and/or places in the "Area of Interest" are invited to register an interest in a process of community consultation.  
MACH Energy advises that the details of any Aboriginal person or group who registers an interest in the consultation process for the Mount Pleasant Operation will be forwarded to the NSW Office of Environment and Heritage and the Wanaruah Local Aboriginal Land Council in accordance with Section 4.1.5. of the Consultation Guidelines, unless they specify that they do not want their details released.  
Please note that any opportunities for engagement during the Aboriginal Cultural Heritage Assessment process would be separate to the consultation process.  
Contact details for registration are as follows. **Registrations must be made by 5.00pm AEST on Friday 16 June 2017.**  
MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889



Positions Vacant

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Public Notices

Mount Pleasant Operation

Aboriginal Cultural Heritage Assessment

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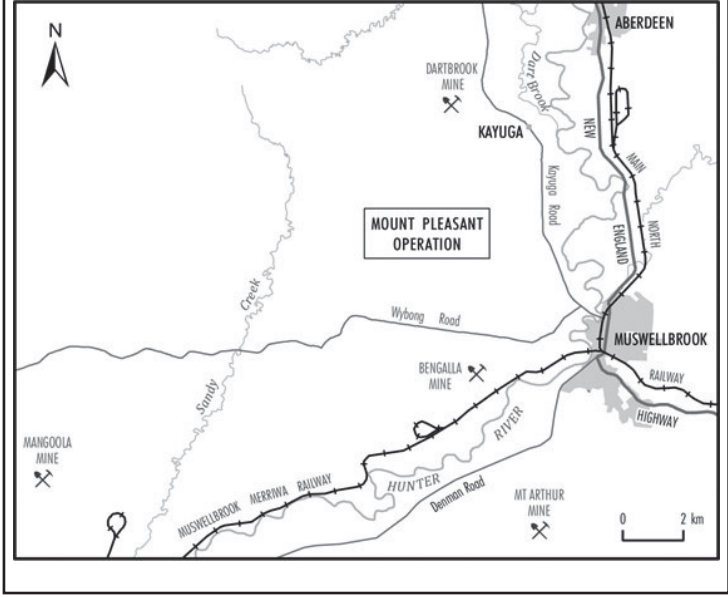
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MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: julie.fletcher@machenergyaustralia.com.au  
Mobile: 1800 886 889



Public Notices

MANGOOLA

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**Public Notice**

**Road Closures Due to**

**Blasting Activities - Wybong Road**

Mangoola Coal Operations wish to advise that Wybong Road closures due to blasting activities may take place between:

**Monday 5th June 2017 and**

**Friday 9th June 2017**

The road will be closed between west of the mine entrance road for up to 3kms west along Wybong Road. The road closure will occur between 10am and 2pm and be closed for 15 minutes but most likely between ~12:00pm and ~12:30pm. These times are subject to change depending on environmental conditions. Roadside signs will display the date and approximate time of each closure.

For further information, please contact our Blasting and Community Response Hotline:

**1800 014 339**

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## **OEH AND LALC LETTERS**

6 July 2017

Office of Environment and Heritage  
Locked Bag 1002  
DANGAR NSW 2309

**Attention: Nicole Davis, Archaeologist – Planning**

Dear Nicole,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

In accordance with the New South Wales (NSW) Office of Environment and Heritage (OEH) policy *Aboriginal cultural heritage consultation requirements for proponents 2010* (NSW Department of Environment, Climate Change and Water [DECCW], 2010) a list of Registered Aboriginal Parties that registered an interest in the community consultation process with MACH Energy Pty Ltd for the Mount Pleasant Operation is provided in Enclosure A.

Copies of the notification letters sent to Aboriginal stakeholders and the public notice published in accordance with Section 4.1.6 of the OEH policy *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW, 2010) are provided in Enclosures B and C respectively.

Yours sincerely,



**Chris Lauritzen**

General Manager - Resources Development  
Mount Pleasant Operation

Enclosure A: Registered Aboriginal Parties for the Mount Pleasant Operation  
Enclosure B: Correspondence sent to Aboriginal Stakeholders  
Enclosure C: Public Notice

6 July 2017

Wanaruah Local Aboriginal Land Council  
PO Box 127  
MUSWELLBROOK NSW 2333

**Attention: Noel Downs, CEO**

Dear Noel,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

In accordance with the New South Wales (NSW) Office of Environment and Heritage (OEH) policy *Aboriginal cultural heritage consultation requirements for proponents 2010* (NSW Department of Environment, Climate Change and Water [DECCW], 2010) a list of Registered Aboriginal Parties that registered an interest in the community consultation process with MACH Energy Pty Ltd for the Mount Pleasant Operation is provided in Enclosure A.

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Yours sincerely,



**Chris Lauritzen**

General Manager - Resources Development  
Mount Pleasant Operation

Enclosure A: Registered Aboriginal Parties for the Mount Pleasant Operation  
Enclosure B: Correspondence sent to Aboriginal Stakeholders  
Enclosure C: Public Notice

## **PROPOSED METHODOLOGY CORRESPONDENCE**

8 September 2017

AGA Services  
Adam Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear Adam,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

Please find enclosed for your review, a copy of the Proposed Methodology for the Aboriginal Cultural Heritage Assessment(s) for the proposed Transport Modification at the MPO (the Modification).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (New South Wales [NSW] Department of Environment, Climate Change and Water, 2010) issued by the NSW Office of Environment and Heritage, we have provided the Proposed Methodology for your review and feedback. Your feedback may include the identification of issues or areas of cultural significance that may be used to affect, inform or refine the Proposed Methodology.

If you wish to provide input on the following, please make a submission to MACH Energy (via the contact details provided at the end of this letter) by **5:00pm Wednesday 11 October 2017**:

- The nature of the Proposed Methodology.
- Any Aboriginal objects or places of cultural value within the indicative study area, or issues of cultural significance, that you are aware of.
- Any restrictions or protocols you may consider necessary in relation to any information of sensitivity that you may provide.
- Any other factors you consider to be relevant to the heritage assessment.

All comments received will be taken into consideration as the Methodology is finalised.

An information session with all Registered Aboriginal Parties and MACH Energy representatives will be held to provide further information on the proposed Modification and to allow for additional comment on the Proposed Methodology. Details regarding the information session will be provided separately.

MACH Energy would appreciate any comments you would like to make on the enclosed Proposed Methodology by 5:00pm Wednesday 11 October 2017. Please provide any comments via the following contact details:

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Aliera French Trading  
Aliera French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Aliera,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'CL', is positioned above the name Chris Lauritzen.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Buda Mada Koori Womens Aboriginal Corporation  
Alison Howlett  
PO Box 3011  
SINGLETON NSW 2330

Dear Alison,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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Mobile: 1800 886 889

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Ungooroo Aboriginal Corporation  
Allen Paget  
PO Box 3095  
SINGLETON NSW 2330

Dear Allen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Amanda Hickey Cultural Services  
Amanda Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Amanda,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Gidawaa Walang Cultural Heritage Consultancy  
Anne Hickey  
76 Lang Street  
KURRI KURRI NSW 2327

Dear Anne,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wonnarua Elders Council Inc.  
Arthur Fletcher  
PO Box 844  
CESSNOCK NSW 2325

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CL' followed by a stylized flourish.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Kauwul (Wonn 1)  
Arthur Fletcher  
619 Main Road  
GLENDALE NSW 2285

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Barry & Colleen Stair  
8 Acacia Drive  
MUSWELLBROOK NSW 2333

Dear Barry & Colleen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Lower Wonnarua Tribal Consultancy Pty Ltd  
Barry Anderson  
156 Inlet Road  
BULGA NSW 2330

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Yarrowalk Enterprises  
Barry McTaggart  
913 Wollombi Road  
BROKE NSW 2330

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

BJC Cultural Management  
Ben Cameron  
11 Stanley Street  
GUNNEDAH NSW 2380

Dear Ben,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Muswellbrook Culture Consultants  
Brian Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

Dear Brian,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Chantae Griffiths  
14 Westerweller Street  
GUNNEDAH NSW 2380

Dear Chantae,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Hunter Valley Cultural Consultants  
Christine Archbold  
13 Bimbadeen Drive  
MUSWELLBROOK NSW 2333

Dear Christine,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Clifford Johnson  
77 Tobruk Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Mingga Consultants  
Clifford Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Upper Hunter Heritage Consultants  
Darrel Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Darrel,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Lower Hunter Aboriginal Incorporated  
David Ahoy  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear David,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'CL', is positioned above the printed name of Chris Lauritzen.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Upper Hunter Natural and Cultural Resources Management  
David French  
Flat 3, 60 Tindale Street  
MUSWELLBROOK NSW 2333

Dear David,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Gomery Cultural Consultants  
David Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

Dear David,

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Divine Diggers Aboriginal Cultural Consultants  
Deidre Perkins  
6 Ashleigh Street  
HEDDON GRETA NSW 2321

Dear Deidre,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

DFTV Enterprises  
Derrick Vale Sr  
5 Mountbatten Close  
RUTHERFORD NSW 2320

Dear Derrick,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wattaka Wonnarua Cultural Consultants Service  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wonnarua Traditional Custodians  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Deslee Talbot Consultant  
Deslee Matthews  
2/19 South Street  
GUNNEDAH NSW 2380

Dear Deslee,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Waabi Gabinya Cultural Consultancy  
Elizabeth Howard  
19 Foley Street  
MUSWELLBROOK NSW 2333

Dear Elizabeth,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Esther Tighe  
1/86 Edward Street  
GUNNEDAH NSW 2380

Dear Esther,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Fiona Draper  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Fiona,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Cacatua General Services  
George Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear George,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
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Mount Pleasant Operation

8 September 2017

Gina Field  
4 Meldrum Place  
GUNNEDAH NSW 2380

Dear Gina,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Wonnarua Culture Heritage  
Gordon Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Gordon,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Gomerioi Murri Ganuurr Yuuray Wadi Palinka  
Greg Griffiths  
3 Jarmain Close  
GUNNEDAH NSW 2380

Dear Greg,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Hazel Collins  
3 Carroll Street  
GUNNEDAH NSW 2380

Dear Hazel,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

DRM Cultural Management  
Helen Faulkner  
81 Wansbeck Valley Road  
CARDIFF NSW 2285

Dear Helen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

I & E Aboriginal Culture and Heritage  
Ivy Jaeger  
1/162 Myall Road  
CARDIFF NSW 2285

Dear Ivy,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Crimson-Rosie  
Jeff Matthews  
6 Eucalypt Avenue  
MUSWELLBROOK NSW 2333

Dear Jeff,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

JLC Cultural Services  
Jenny-Lee Chambers  
39 Goulburn Drive  
SANDY HOLLOW NSW 2333

Dear Jenny-Lee,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Lower Hunter Aboriginal Corporation  
Jill Green  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear Jill,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Aboriginal Native Title Consultants  
John & Margaret Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear John & Margaret,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Carrawonga  
Justin Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Justin,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Galamaay Consultant  
Karen Matthews  
21 Bando Street  
GUNNEDAH NSW 2380

Dear Karen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Yinarr Cultural Services  
Kathleen Steward-Kinchela  
111 Westwood Rd  
GUNGAL NSW 2333

Dear Kathie,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CL' followed by a stylized flourish.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

HECMO Consultants  
Kerren Boyd  
Lot 136 Main Street  
BREEZA NSW 2381

Dear Kerren,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Bawurra Consultants  
Kevin Sampson  
1 Martin Street  
BREEZA NSW 2381

Dear Kevin,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Mobile: 1800 886 889

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

KL.KG Saunders Trading Services  
Krystal Saunders  
20 Ruderford Road  
MUSWELLBROOK NSW 2333

Dear Krystal,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Valley Culture  
Larry van Vliet  
140 Sydney Street  
MUSWELLBROOK NSW 2333

Dear Larry,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wonnarua Nation Aboriginal Corporation  
Laurie Perry  
PO Box 3066  
SINGLETON NSW 2330

Dear Laurie,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Jarban & Mugrebea  
Les Atkinson  
11 Nelson Street  
CESSNOCK NSW 2325

Dear Les,

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

L.J Culture Management  
Les Field  
4 Hinton Drive  
GUNNEDAH NSW 2380

Dear Les,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Luke Cameron Cultural Management  
Luke Cameron  
28 Herbert Street  
GUNNEDAH NSW 2380

Dear Luke,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Hunter Valley Cultural Surveying  
Luke Hickey  
165 Susan Street  
SCONE NSW 2337

Dear Luke,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wallangan Cultural Services  
Maree Waugh  
29 Anzac Avenue  
CESSNOCK NSW 2325

Dear Maree,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Wanaruah Aboriginal Custodians Corporation  
Maria Stocks  
10 Tulloch Close  
SINGLETON NSW 2330

Dear Maria,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CL' followed by a stylized flourish.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

ME Griffiths Cultural Management  
Marie-Ellen Griffiths  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Marie-Ellen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Kayaway Eco-Cultural and Heritage Services  
Mark Hickey  
6/22 Government Street  
THORNTON NSW 2322

Dear Mark,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Marvonia Welsh  
1 Yabsley Avenue  
MARRICKVILLE NSW 2204

Dear Marvonia,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Michele Stair  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Michele,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Jumbunna Traffic Management Group Pty Ltd  
Norm Archibald  
17 Flowburn Avenue  
WAUCHOPE NSW 2446

Dear Norm,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

HTO Environmental Management Services  
Paulette Ryan  
165 Susan Street  
SCONE NSW 2337

Dear Paulette,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
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8 September 2017

Wonnarua Culture and Heritage  
Rebecca Lester  
20 Regent Street  
CESSNOCK NSW 2325

Dear Rebecca,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Upper Hunter Wonnarua Council Incorporated  
Rhoda Perry  
PO Box 184  
SINGLETON NSW 2330

Dear Rhoda,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Hunter Valley Aboriginal Corporation  
Rhonda Griffiths  
PO Box 579  
MUSWELLBROOK NSW 2333

Dear Rhonda,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Ungooroo Cultural & Community Services Inc  
Rhonda Ward  
8 Blaxland Avenue  
SINGLETON NSW 2330

Dear Rhonda,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Hunter Valley Traditional Owner Environmental Management Services  
Rick Coles  
PO Box 1042  
SINGLETON NSW 2330

Dear Rick,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Murrawan Cultural Consultants  
Robert Smith  
33 Clift Street  
HEDDON GRETA NSW 2321

Dear Robert,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Kawul Cultural Services  
Rod Hickey  
33 Gardner Circuit  
SINGLETON NSW 2330

Dear Rodney,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Giwiirr Consultants  
Rodney Matthews  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Rodney,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Roger Noel Matthews  
3 Nowland Street  
MUSWELLBROOK NSW 2333

Dear Roger,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY  
FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Tocomwall Pty Ltd  
Scott Franks  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Plains Clans of the Wonnarua People Registered Native Title Claim  
Scott Franks & Robert Lester  
C/- Tocomwall Pty Ltd  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott and Robert,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Gomeroi Namoi Traditional Owners  
Stephen Talbott  
73 Kiah Road  
GILLIESTON HEIGHTS NSW 2321

Dear Stephen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Widescope Indigenous Group Pty Ltd  
Steven Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Steven,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Moreeites  
Susan Cutmore  
11/97 Brook Street  
MUSWELLBROOK NSW 2333

Dear Susan,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

Wanaruah Local Aboriginal Lands Council  
Suzie Worth & Noel Downs  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Noel & Suzie,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Bunda Counsultants  
Tammy Knox  
23 Cunningham Street  
TAMWORTH NSW 2340

Dear Tammy,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Breeza Plains Culture and Heritage Consultants  
Terry Matthews  
396 Armidale Road  
TAMWORTH NSW 2340

Dear Terry,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Smith Dhagaans Cultural Group  
Timothy Smith  
46 Springvale Circuit  
CAMERON PARK NSW 2285

Dear Timothy,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CL', written over a light grey circular background.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Lower Hunter Wonnarua Council Inc.  
Tom Miller  
51 Bowden Street  
HEDDON GRETA NSW 2321

Dear Tom,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

T & G Culture Consultants  
Tony Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Tony,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Culturally Aware  
Tracey Skene  
7 Crawford Place  
MILLFIELD NSW 2325

Dear Tracey,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



8 September 2017

My Land Cultural Heritage  
Warren Schillings  
4 Wattle Street  
GUNNEDAH NSW 2380

Dear Warren,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Warren Taggart  
78 Castlereagh Street  
SINGLETON NSW 2330

Dear Warren,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Bigundi Biame Traditional People  
Wayne Griffiths  
16 South Street  
GUNNEDAH NSW 2380

Dear Wayne,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Valley ELM Corp  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Amanda Howard  
The Cottage, Corner Brentwood and Brecht Street  
MUSWELLBROOK NSW 2333

Dear Amanda,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY  
FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

A1 Indigenous Services  
Carolyn Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Carolyn,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

8 September 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

**RE: MOUNT PLEASANT OPERATION – TRANSPORT MODIFICATION PROPOSED METHODOLOGY FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

Further to provision of the Proposed Methodology to you (letter dated 8 September 2017), please note the below regarding an information session and proposed test excavation.

**Information Session**

An information session with all Registered Aboriginal Parties and MACH Energy representatives will be held on Tuesday 10 October 2017 to discuss the Proposed Methodology and Modification 4. The information session will be held at the John Hunter Motel (91 Maitland Street, Muswellbrook), and will commence at 10.00am and conclude at approximately 12.00pm.

Can you please indicate whether you are interested in attending the information session by Friday 6 October 2017 via the contact details provided at the end of this letter.

**Proposed Test Excavation Methodology and Sampling Strategy**

Enclosed with this letter is a copy of the proposed test excavation methodology and sampling strategy associated with the Aboriginal Cultural Heritage Assessment being prepared for the Mount Pleasant Operation and/or to inform the design of local public roads/intersections. The enclosed document should be read in conjunction with the Proposed Methodology previously provided (letter dated 8 September 2017).

If you wish to provide comment on the proposed test excavation methodology and sampling strategy, please make a submission to MACH Energy Australia Pty Ltd by **5:00pm Friday 20 October 2017** via the contact details provided at the end of this letter.

All relevant comments received will be taken into consideration as the methodology is finalised.

## Contact Details

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

29 May 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

**RE: MOUNT PLEASANT OPERATION – ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

The Mount Pleasant Operation (MPO) is situated 4km north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

**As described below, and due to your previous involvement at the Mount Pleasant Operation, you have been automatically registered for the consultation process. You do not need to contact MACH Energy to re-register.**

As part of these environmental approvals, MACH Energy will be preparing an Aboriginal Cultural Heritage Assessment(s), and therefore may seek a new Aboriginal Heritage Impact Permit (AHIP) under section 90 of the NSW National Parks and Wildlife Act, 1974 to move and/or destroy Aboriginal objects (or a variation to the existing permits [AHIP #C0002053, #C0002092]). The subject area of the any such application is depicted as the “Area of Interest” as shown on the plan below.

In accordance with the requirements as set out in the Aboriginal cultural heritage consultation requirements for proponents 2010 (NSW Department of Environment, Climate Change and Water, 2010) (Consultation Guidelines) issued by the NSW Office of Environment and Heritage, MACH Energy is required to conduct a community consultation process with relevant Aboriginal people to assist in the preparation of the Aboriginal Cultural Heritage Assessment. This includes:

- Contacting various government organisations and requesting a list of any Aboriginal persons or groups who hold cultural knowledge relevant to, or who have a right or interest in, determining the cultural heritage significance of Aboriginal objects and/or places in the “Area of Interest”.
- Writing to the Aboriginal persons or groups identified by the above process to notify them of the Mount Pleasant Operation and invite them to register an interest in the community consultation process.

- Placing a notice in a local newspaper and inviting Aboriginal persons or groups to register an interest in the community consultation process.

**Due to your previous involvement at the Mount Pleasant Operation, you have been automatically registered for the consultation process. You do not need to contact MACH Energy to re-register.**

MACH Energy advises that the details of any Aboriginal person or group who registers an interest in the consultation process for the Mount Pleasant Operation will be forwarded to the NSW Office of Environment and Heritage and the Wanaruah Local Aboriginal Land Council in accordance with Section 4.1.5. of the Consultation Guidelines, unless they specify that they do not want their details released.

Should you have any queries regarding your registration, please do not hesitate to contact MACH Energy via the following contact details:

MACH Energy Australia Pty Ltd

C/- Julie Fletcher

Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)

Phone: 1800 886 889

Yours sincerely,

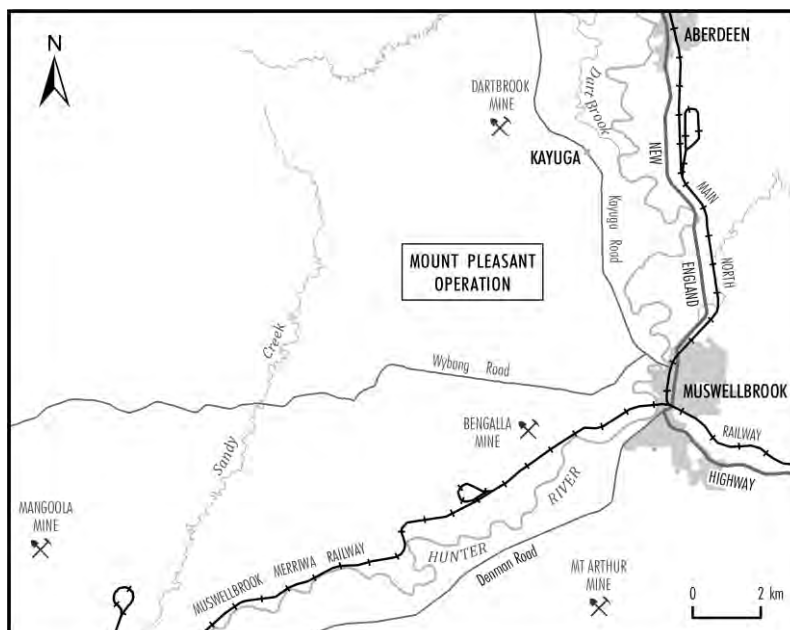


**Chris Lauritzen**

General Manager – Resource Development

MACH Energy Australia Pty Ltd

**Plan showing 'Area of Interest'**



---

**From:** Klay Marchant [klay.marchant@machenergyaustralia.com.au]  
**Sent:** Thursday, 12 October 2017 12:18 PM  
**Subject:** Mount Pleasant Operation - Information Session Tuesday 17 October 2017

All,

As you are aware, an information session for the Mount Pleasant Operation Rail Modification (Modification 4) Aboriginal Cultural Heritage Assessment was held with Registered Aboriginal Parties on Tuesday 10 October 2017.

MACH Energy Australia is proposing to hold an additional follow-up information session with Registered Aboriginal Parties.

To allow for attendance outside of standard work hours, this follow-up information session will be held on Tuesday 17 October 2017 from 6.00pm to 7.00pm at the John Hunter Motel in Muswellbrook (91 Maitland Street, Muswellbrook). Light refreshments and drinks will be provided. However, please note that MACH Energy will not be paying for travel expenses or attendance at the information session.

If you require any further information regarding the information session, please contact us on 1800 886 889.

Regards,

**Klay Marchant**

**MACH Energy Australia Pty Ltd**  
GPO Box 94 | Brisbane QLD 4001  
ABN: 34 608 495 441  
[www.machenergyaustralia.com.au](http://www.machenergyaustralia.com.au)

**MACHEnergy**



The information contained in this email, including any attachments, is proprietary and confidential. If you are not the intended recipient, use of this information is unauthorized, please notify the sender and delete this message. This email may be personal and therefore not representative of the views of MACH Energy Australia Pty Ltd. No part of the material contained in this email may be reproduced, adapted or communicated without the written consent of the copyright owner. Internet communication is not secure, therefore MACH Energy Australia Pty Ltd does not guarantee the accuracy of the information contained within, nor does it accept legal responsibility for the contents of this message or any attached files.

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**Total Control Panel**

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To: [dwallace@resourcestrategies.com.au](mailto:dwallace@resourcestrategies.com.au) [Remove](#) this sender from my allow list

From:  
[klay.marchant@machenergyaustralia.com.au](mailto:klay.marchant@machenergyaustralia.com.au)

*You received this message because the sender is on your allow list.*

---

**From:** Klay Marchant [klay.marchant@machenergyaustralia.com.au]  
**Sent:** Friday, 13 October 2017 9:58 PM  
**To:** lance.syme@warrabinga.com.au  
**Subject:** Mount Pleasant Operation - Information Session Tuesday 17 October 2017  
**Attachments:** ltr - Warrabinga - 29 May 2017.pdf; ltr - Warrabinga - 8 September 2017.pdf; Test Excavation Methodology - Mount Pleasant Operation.pdf; MPO Transport Modification - Proposed Methodology.pdf; ltr - Warrabinga - 19 September 2017.pdf

Lance,

As requested, please find attached copies of the requested documentation to date. Note that we are still currently working through Stage 3 of the process and anticipate providing the draft Aboriginal Cultural Heritage Assessment for your review in the coming months.

Please don't hesitate to call should you wish to discuss.

Regards,

Klay

-----Original Message-----

From: [lance.syme@warrabinga.com.au](mailto:lance.syme@warrabinga.com.au) [<mailto:lance.syme@warrabinga.com.au>]  
Sent: Thursday, 12 October 2017 4:04 PM  
To: Klay Marchant <[klay.marchant@machenergyaustralia.com.au](mailto:klay.marchant@machenergyaustralia.com.au)>  
Subject: Re: Mount Pleasant Operation - Information Session Tuesday 17 October 2017

Klay,

Can you please provide a copy of the documentation to satisfy stage 2 and Stage 3 of the consultation requirements which are no doubt part of the SEARs issued for your modification project.

Regards,

Lance syme

On 2017-10-12 13:17, Klay Marchant wrote:

> All,  
>  
> As you are aware, an information session for the Mount Pleasant  
> Operation Rail Modification (Modification 4) Aboriginal Cultural  
> Heritage Assessment was held with Registered Aboriginal Parties on  
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> Street, Muswellbrook). Light refreshments and drinks will be provided.  
> However, please note that MACH Energy will not be paying for travel



Name	Registered Aboriginal Group	Signature
Colleen Hair	Crimson Rosie	cstair
Arthur C. Fletcher	KAUWUK.TA.WONN1	a.c. Fletcher
Clifford Johnson	UHC	clifford
Ross	<del>Rp</del> U.H.C	Rp
Luke Hickey	HUCS.	Luke Hickey
STEVEN Hickey	W.I.C	Steven Hickey
Noel Downs	Wanaruah LALC	Noel Downs
Tracey Skene	Culturally Aware	Tracey Skene
Maree Waugh	Wallangan Cultural Services	Maree Waugh
KATHIE STEWARD KINCHLA	YINARR CULTURAL SERVICES	Kathie Steward Kinchla
Natasha Kellett	Yinarr Cultural Services	Natasha Kellett
Julie Fletcher	MACH Energy Australia	Julie Fletcher



---

**Subject:** FW: MT pleasant operation-Transport modification proposed methodology for Aboriginal cultural heritage Assessment

**From:** Tracey Skene [<mailto:tracey@marrung-pa.com.au>]

**Sent:** Saturday, 16 September 2017 1:37 PM

**To:** Julie Fletcher <[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>

**Subject:** MT pleasant operation-Transport modification proposed methodology for Aboriginal cultural heritage Assessment

Good evening Julie,

I received the methodology in the post on Friday 15th September 2017, Culturally Aware has viewed and read and at this point of time have no concerns at the moment with the proposed methodology.

Thanks

Tracey Skene

Culturally Aware

Please forward all correspondence to this email address due to IT issues with [anigunya@hotmail.com](mailto:anigunya@hotmail.com) culturally aware's old email.

---

**Subject:** FW: Mount Pleasant Operation Information session for Aboriginal Cultural Heritage Assessment and Methodology

---

**From:** Gidawaa Walang Cultural Heritage Consultancy [<mailto:gidawaa.walang@hotmail.com>]

**Sent:** Thursday, 5 October 2017 3:24 PM

**To:** Julie Fletcher <[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>

**Subject:** Mount Pleasant Operation Information session for Aboriginal Cultural Heritage Assessment and Methodology

Hello Julie,

Gidawaa Walang Cultural Heritage Consultancy supports the proposed methodology for the above project.

Yours sincerely

Ann Hickey

**Gidawaa Walang Cultural Heritage Consultancy**

trading name of Barkuma Neighbourhood Centre Inc.

76 Lang Street, Kurri Kurri 2327 | Phone: 02 4937 1094

[www.barkuma.org](http://www.barkuma.org) | Fax: 02 4936 4449

---

**Subject:** FW: meeting on the 10th

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**From:** Ross Pahuru [<mailto:Manager@hvabcorp.org.au>]  
**Sent:** Thursday, 5 October 2017 3:06 PM  
**To:** Julie Fletcher <[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>  
**Subject:** meeting on the 10th

Hi dearheart

Has anybody from HVAC notified you that we will be there?

There will be Cliff Johnson and myself representing the HVAC.

Cheers

rosco

Ross Pahuru

General Manager

Hunter Valley Aboriginal Corporation

PO Box 579

Muswellbrook, NSW 2333

Ph 02 6543 1180, Mob 0457 487 976, Fax 02 6543 1106

Note my new email address [Manager@hvabcorp.org.au](mailto:Manager@hvabcorp.org.au). Please remember to update your records

*'I understand that I live and work on the land that belongs to the first peoples of Australia particularly that of the Wanaruah Nation. I respectfully acknowledge the People, their ancestors and those yet to come.'*

---

**Subject:** FW: Mt Pleasant Information Session

-----Original Message-----

From: Admin-Wanaruah [<mailto:admin.wanaruah@bigpond.com>]

Sent: Monday, 25 September 2017 2:07 PM

To: Julie Fletcher <[julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)>

Subject: Mt Pleasant Information Session

Hi Julie,

Noel will be attending the information session on Tuesday 10th October.

Regards

Renee

--

Renee MacDonald

Administration Officer

Wanaruah Local Aboriginal Land Council

PO Box 127

MUSWELLBROOK NSW 2333

Ph: 02 6543 1288

I acknowledge the Traditional Owners of the land I work upon, the Wanaruah People and pay my respects to Elders past, present and future.

19 September 2017

AGA Services  
Adam Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear Adam,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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Can you please indicate whether you are interested in attending the information session by Friday 6 October 2017 via the contact details provided at the end of this letter.

### **Proposed Test Excavation Methodology and Sampling Strategy**

Enclosed with this letter is a copy of the proposed test excavation methodology and sampling strategy associated with the Aboriginal Cultural Heritage Assessment being prepared for the Mount Pleasant Operation and/or to inform the design of local public roads/intersections. The enclosed document should be read in conjunction with the Proposed Methodology previously provided (letter dated 8 September 2017).

If you wish to provide comment on the proposed test excavation methodology and sampling strategy, please make a submission to MACH Energy Australia Pty Ltd by **5:00pm Friday 20 October 2017** via the contact details provided at the end of this letter.

All relevant comments received will be taken into consideration as the methodology is finalised.

## Contact Details

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'MLA', is positioned above the printed name and title of Chris Lauritzen.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Aliera French Trading  
Aliera French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Aliera,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Buda Mada Koori Womens Aboriginal Corporation  
Alison Howlett  
PO Box 3011  
SINGLETON NSW 2330

Dear Alison,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Ungooroo Aboriginal Corporation  
Allen Paget  
PO Box 3095  
SINGLETON NSW 2330

Dear Allen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Amanda Hickey Cultural Services  
Amanda Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Amanda,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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Mobile: 1800 886 889

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Gidawaa Walang Cultural Heritage Consultancy  
Anne Hickey  
76 Lang Street  
KURRI KURRI NSW 2327

Dear Anne,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Wonnarua Elders Council Inc.  
Arthur Fletcher  
PO Box 844  
CESSNOCK NSW 2325

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Kauwul (Wonn 1)  
Arthur Fletcher  
619 Main Road  
GLENDALE NSW 2285

Dear Arthur,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Barry & Colleen Stair  
8 Acacia Drive  
MUSWELLBROOK NSW 2333

Dear Barry & Colleen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Lower Wonnarua Tribal Consultancy Pty Ltd  
Barry Anderson  
156 Inlet Road  
BULGA NSW 2330

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Yarrawalk Enterprises  
Barry McTaggart  
913 Wollombi Road  
BROKE NSW 2330

Dear Barry,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

BJC Cultural Management  
Ben Cameron  
11 Stanley Street  
GUNNEDAH NSW 2380

Dear Ben,

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Muswellbrook Culture Consultants  
Brian Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

Dear Brian,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Chantae Griffiths  
14 Westerweller Street  
GUNNEDAH NSW 2380

Dear Chantae,

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Mount Pleasant Operation

19 September 2017

Hunter Valley Cultural Consultants  
Christine Archbold  
13 Bimbadeen Drive  
MUSWELLBROOK NSW 2333

Dear Christine,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Clifford Johnson  
77 Tobruk Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford,

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19 September 2017

Mingga Consultants  
Clifford Matthews  
4 Calgaroo Avenue  
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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Upper Hunter Heritage Consultants  
Darrel Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Darrel,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Lower Hunter Aboriginal Incorporated  
David Ahoy  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear David,

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General Manager Resources Development  
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19 September 2017

Upper Hunter Natural and Cultural Resources Management  
David French  
Flat 3, 60 Tindale Street  
MUSWELLBROOK NSW 2333

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Divine Diggers Aboriginal Cultural Consultants  
Deidre Perkins  
6 Ashleigh Street  
HEDDON GRETA NSW 2321

Dear Deidre,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

DFTV Enterprises  
Derrick Vale Sr  
5 Mountbatten Close  
RUTHERFORD NSW 2320

Dear Derrick,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Wattaka Wonnarua Cultural Consultants Service  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Mount Pleasant Operation

19 September 2017

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Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Deslee Talbot Consultant  
Deslee Matthews  
2/19 South Street  
GUNNEDAH NSW 2380

Dear Deslee,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Waabi Gabinya Cultural Consultancy  
Elizabeth Howard  
19 Foley Street  
MUSWELLBROOK NSW 2333

Dear Elizabeth,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Mount Pleasant Operation

19 September 2017

Esther Tighe  
1/86 Edward Street  
GUNNEDAH NSW 2380

Dear Esther,

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**Chris Lauritzen**  
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19 September 2017

Fiona Draper  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Fiona,

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**Chris Lauritzen**  
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19 September 2017

Cacatua General Services  
George Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear George,

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**Chris Lauritzen**  
General Manager Resources Development  
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19 September 2017

Gina Field  
4 Meldrum Place  
GUNNEDAH NSW 2380

Dear Gina,

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19 September 2017

Wonnarua Culture Heritage  
Gordon Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Gordon,

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**Chris Lauritzen**

General Manager Resources Development

Mount Pleasant Operation

19 September 2017

Gomeri Murri Ganuurr Yuuray Wadi Palinka  
Greg Griffiths  
3 Jarmain Close  
GUNNEDAH NSW 2380

Dear Greg,

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**Chris Lauritzen**  
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19 September 2017

Hazel Collins  
3 Carroll Street  
GUNNEDAH NSW 2380

Dear Hazel,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

DRM Cultural Management  
Helen Faulkner  
81 Wansbeck Valley Road  
CARDIFF NSW 2285

Dear Helen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

I & E Aboriginal Culture and Heritage  
Ivy Jaeger  
1/162 Myall Road  
CARDIFF NSW 2285

Dear Ivy,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Crimson-Rosie  
Jeff Matthews  
6 Eucalypt Avenue  
MUSWELLBROOK NSW 2333

Dear Jeff,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

JLC Cultural Services  
Jenny-Lee Chambers  
39 Goulburn Drive  
SANDY HOLLOW NSW 2333

Dear Jenny-Lee,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Lower Hunter Aboriginal Corporation  
Jill Green  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear Jill,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Aboriginal Native Title Consultants  
John & Margaret Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear John & Margaret,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Carrawonga  
Justin Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Justin,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Galamaay Consultant  
Karen Matthews  
21 Bando Street  
GUNNEDAH NSW 2380

Dear Karen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
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19 September 2017

Yinarr Cultural Services  
Kathleen Steward-Kinchela  
111 Westwood Rd  
GUNGAL NSW 2333

Dear Kathie,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

HECMO Consultants  
Kerren Boyd  
Lot 136 Main Street  
BREEZA NSW 2381

Dear Kerren,

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General Manager Resources Development  
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19 September 2017

Bawurra Consultants  
Kevin Sampson  
1 Martin Street  
BREEZA NSW 2381

Dear Kevin,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen,

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A handwritten signature in black ink, appearing to be 'CL', with a large, sweeping flourish at the end.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

KL.KG Saunders Trading Services  
Krystal Saunders  
20 Ruderford Road  
MUSWELLBROOK NSW 2333

Dear Krystal,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Valley Culture  
Larry van Vliet  
140 Sydney Street  
MUSWELLBROOK NSW 2333

Dear Larry,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Wonnarua Nation Aboriginal Corporation  
Laurie Perry  
PO Box 3066  
SINGLETON NSW 2330

Dear Laurie,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Jarban & Mugrebea  
Les Atkinson  
11 Nelson Street  
CESSNOCK NSW 2325

Dear Les,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

L.J Culture Management  
Les Field  
4 Hinton Drive  
GUNNEDAH NSW 2380

Dear Les,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Luke Cameron Cultural Management  
Luke Cameron  
28 Herbert Street  
GUNNEDAH NSW 2380

Dear Luke,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Hunter Valley Cultural Surveying  
Luke Hickey  
165 Susan Street  
SCONE NSW 2337

Dear Luke,

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**Chris Lauritzen**  
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Mount Pleasant Operation

19 September 2017

Wallangan Cultural Services  
Maree Waugh  
29 Anzac Avenue  
CESSNOCK NSW 2325

Dear Maree,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Wanaruah Aboriginal Custodians Corporation  
Maria Stocks  
10 Tulloch Close  
SINGLETON NSW 2330

Dear Maria,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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19 September 2017

ME Griffiths Cultural Management  
Marie-Ellen Griffiths  
10 Herbert Street  
GUNNDAH NSW 2380

Dear Marie-Ellen,

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General Manager Resources Development  
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19 September 2017

Kayaway Eco-Cultural and Heritage Services  
Mark Hickey  
6/22 Government Street  
THORNTON NSW 2322

Dear Mark,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Marvonja Welsh  
1 Yabsley Avenue  
MARRICKVILLE NSW 2204

Dear Marvonja,

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General Manager Resources Development  
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19 September 2017

Michele Stair  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Michele,

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
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If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Jumbunna Traffic Management Group Pty Ltd  
Norm Archibald  
17 Flowburn Avenue  
WAUCHOPE NSW 2446

Dear Norm,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

HTO Environmental Management Services  
Paulette Ryan  
165 Susan Street  
SCONE NSW 2337

Dear Paulette,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Wonnarua Culture and Heritage  
Rebecca Lester  
20 Regent Street  
CESSNOCK NSW 2325

Dear Rebecca,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Upper Hunter Wonnarua Council Incorporated  
Rhoda Perry  
PO Box 184  
SINGLETON NSW 2330

Dear Rhoda,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Hunter Valley Aboriginal Corporation  
Rhonda Griffiths  
PO Box 579  
MUSWELLBROOK NSW 2333

Dear Rhonda,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Ungooroo Cultural & Community Services Inc  
Rhonda Ward  
8 Blaxland Avenue  
SINGLETON NSW 2330

Dear Rhonda,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Hunter Valley Traditional Owner Environmental Management Services  
Rick Coles  
PO Box 1042  
SINGLETON NSW 2330

Dear Rick,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Murrawan Cultural Consultants  
Robert Smith  
33 Clift Street  
HEDDON GRETA NSW 2321

Dear Robert,

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**Chris Lauritzen**  
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Mount Pleasant Operation

19 September 2017

Kawul Cultural Services  
Rod Hickey  
33 Gardner Circuit  
SINGLETON NSW 2330

Dear Rodney,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Giwiirr Consultants  
Rodney Matthews  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Rodney,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Roger Noel Matthews  
3 Nowland Street  
MUSWELLBROOK NSW 2333

Dear Roger,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Tocomwall Pty Ltd  
Scott Franks  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott,

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**Chris Lauritzen**

General Manager Resources Development

Mount Pleasant Operation

19 September 2017

Plains Clans of the Wonnarua People Registered Native Title Claim  
Scott Franks & Robert Lester  
C/- Tocomwall Pty Ltd  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott & Robert

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Gomeroi Namoi Traditional Owners  
Stephen Talbott  
73 Kiah Road  
GILLIESTON HEIGHTS NSW 2321

Dear Stephen,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Widescope Indigenous Group Pty Ltd  
Steven Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Steven,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Moreeites  
Susan Cutmore  
11/97 Brook Street  
MUSWELLBROOK NSW 2333

Dear Susan,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



19 September 2017

Wanaruah Local Aboriginal Lands Council  
Noel Downs  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Noel

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Bunda Counsultants  
Tammy Knox  
23 Cunningham Street  
TAMWORTH NSW 2340

Dear Tammy,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Breeza Plains Culture and Heritage Consultants  
Terry Matthews  
396 Armidale Road  
TAMWORTH NSW 2340

Dear Terry,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**

General Manager Resources Development

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19 September 2017

Smith Dhagaans Cultural Group  
Timothy Smith  
46 Springvale Circuit  
CAMERON PARK NSW 2285

Dear Timothy,

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**Chris Lauritzen**  
General Manager Resources Development  
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19 September 2017

Lower Hunter Wonnarua Council Inc.  
Tom Miller  
51 Bowden Street  
HEDDON GRETA NSW 2321

Dear Tom,

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**Chris Lauritzen**  
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19 September 2017

T & G Culture Consultants  
Tony Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Tony,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Culturally Aware  
Tracey Skene  
7 Crawford Place  
MILLFIELD NSW 2325

Dear Tracey,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

My Land Cultural Heritage  
Warren Schillings  
4 Wattle Street  
GUNNEDAH NSW 2380

Dear Warren,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Warren Taggart  
78 Castlereagh Street  
SINGLETON NSW 2330

Dear Warren,

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Bigundi Biame Traditional People  
Wayne Griffiths  
16 South Street  
GUNNEDAH NSW 2380

Dear Wayne,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

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Can you please indicate whether you are interested in attending the information session by Friday 6 October 2017 via the contact details provided at the end of this letter.

**Proposed Test Excavation Methodology and Sampling Strategy**

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All relevant comments received will be taken into consideration as the methodology is finalised.

## Contact Details

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CL' or 'Chris Lauritzen', written in a cursive style.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Valley ELM Corp  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Mobile: 1800 886 889

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Yours sincerely,

A handwritten signature in black ink, appearing to read 'CL', is positioned above the printed name and title of Chris Lauritzen.

**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

Amanda Howard  
The Cottage, Corner Brentwood and Brecht Street  
MUSWELLBROOK NSW 2333

Dear Amanda,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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Yours sincerely,

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

19 September 2017

A1 Indigenous Services  
Carolyn Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Carolyn,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION FOR ABORIGINAL CULTURAL HERITAGE ASSESSMENT AND PROPOSED TEST EXCAVATION METHODOLOGY**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

**From:** Klay Marchant [klay.marchant@machenergyaustralia.com.au]  
**Sent:** Friday, 13 October 2017 9:55 PM  
**Subject:** Mount Pleasant Operation - Aboriginal Cultural Heritage Assessment  
**Attachments:** Mount Pleasant Operation - Proposed Archaeological Test Pit Areas.pdf

All,

As you would be aware, a draft Test Excavation Proposed Methodology and Sampling Strategy was provided to you for your review on 19 September 2017.

Further to this correspondence, please find attached an additional supporting figure showing the locations of the proposed test excavation activities.

If you require any further information, please contact us on 1800 886 889.

Regards,

**Klay Marchant**

**MACH Energy Australia Pty Ltd**  
GPO Box 94 | Brisbane QLD 4001  
ABN: 34 608 495 441  
[www.machenergyaustralia.com.au](http://www.machenergyaustralia.com.au)

**MACHEnergy**



**national safe work month**

**October | [safeworkmonth.swa.gov.au](http://safeworkmonth.swa.gov.au) | [#safeworkmonth](https://twitter.com/safeworkmonth)**

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From:  
[klay.marchant@machenergyaustralia.com.au](mailto:klay.marchant@machenergyaustralia.com.au)

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DRAFT FOR CONSULTATION

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6428000

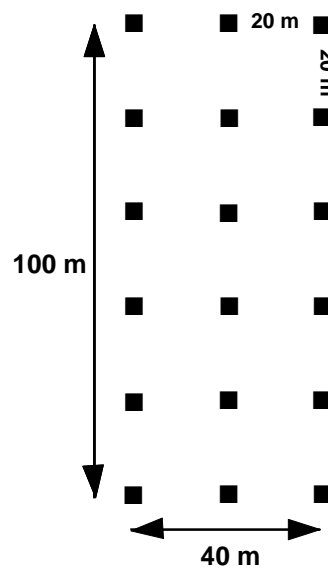
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Example Excavation Layout  
(20 m x 20 m grid)



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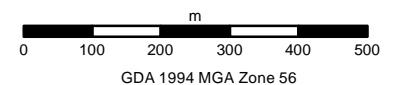
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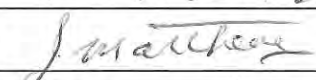
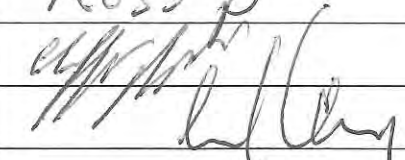
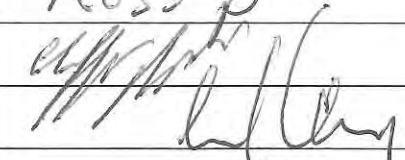



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Mount Pleasant Mod4  
Aboriginal Cultural Heritage  
Assessment

- Previously recorded open site
- New Site
- Indicative Test Pit Areas
- Conceptual Rail - Conveyor Alignment
- Study Area





Name	Registered Aboriginal Group	Signature
MARGARET MATTHEWS.	ANTC	
JOHN MATTHEWS.		
DARREL MATTHEWS	<del>UHHIC</del> UHHIC.	Darrel Matthews
ROSS phuvu	<del>HVAC</del> HVAC	ROSS P
Clifford Johnson	HVAC	
Luke Hickey	HVC S.	
Colleen Hain	Crimson Rosie	Colleen Hain
Jeff. Matthews	Crimson-Rosie	
Neel Downs	Wanaruah LALC	
KATHIE STENARD KINCHELA	GINARR CULTURAL SERVICES	

## **DRAFT ACHA CORRESPONDENCE**

10 November 2017

AGA Services  
Adam Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear Adam

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Phone: 1800 886 889

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Aliera French Trading  
Aliera French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Aliera

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Buda Mada Koori Womens Aboriginal Corporation  
Alison Howlett  
PO Box 3011  
SINGLETON NSW 2330

Dear Alison

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Ungooroo Aboriginal Corporation  
Allen Paget  
PO Box 3095  
SINGLETON NSW 2330

Dear Allen

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**Chris Lauritzen**  
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10 November 2017

Amanda Hickey Cultural Services  
Amanda Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Amanda

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Gidawaa Walang Cultural Heritage Consultancy  
Anne Hickey  
76 Lang Street  
KURRI KURRI NSW 2327

Dear Anne

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Wonnarua Elders Council Inc.  
Arthur Fletcher  
PO Box 844  
CESSNOCK NSW 2325

Dear Arthur

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Kauwul (Wonn 1)  
Arthur Fletcher  
619 Main Road  
GLENDALE NSW 2285

Dear Arthur

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Barry & Colleen Stair  
8 Acacia Drive  
MUSWELLBROOK NSW 2333

Dear Barry & Colleen

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Lower Wonnarua Tribal Consultancy Pty Ltd  
Barry Anderson  
156 Inlet Road  
BULGA NSW 2330

Dear Barry

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Yarrowalk Enterprises  
Barry McTaggart  
913 Wollombi Road  
BROKE NSW 2330

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General Manager, Resources Development  
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10 November 2017

BJC Cultural Management  
Ben Cameron  
11 Stanley Street  
GUNNEDAH NSW 2380

Dear Ben

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10 November 2017

Muswellbrook Culture Consultants  
Brian Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

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10 November 2017

Chantae Griffiths  
14 Westerweller Street  
GUNNEDAH NSW 2380

Dear Chantae

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Hunter Valley Cultural Consultants  
Christine Archbold  
13 Bimbadeen Drive  
MUSWELLBROOK NSW 2333

Dear Christine

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Clifford Johnson  
77 Tobruk Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Mingga Consultants  
Clifford Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

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Upper Hunter Heritage Consultants  
Darrel Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Darrel

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General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Lower Hunter Aboriginal Incorporated  
David Ahoy  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear David

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Upper Hunter Natural and Cultural Resources Management  
David French  
Flat 3, 60 Tindale Street  
MUSWELLBROOK NSW 2333

Dear David

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18 Carroona Reserve  
CAROONA NSW 2343

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Divine Diggers Aboriginal Cultural Consultants  
Deidre Perkins  
6 Ashleigh Street  
HEDDON GRETA NSW 2321

Dear Deidre

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10 November 2017

DFTV Enterprises  
Derrick Vale Sr  
5 Mountbatten Close  
RUTHERFORD NSW 2320

Dear Derrick

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Wattaka Wonnarua Cultural Consultants Service  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Deslee Talbot Consultant  
Deslee Matthews  
2/19 South Street  
GUNNEDAH NSW 2380

Dear Deslee

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Waabi Gabinya Cultural Consultancy  
Elizabeth Howard  
19 Foley Street  
MUSWELLBROOK NSW 2333

Dear Elizabeth

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Esther Tighe  
1/86 Edward Street  
GUNNEDAH NSW 2380

Dear Esther

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**Chris Lauritzen**  
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Mount Pleasant Operation

10 November 2017

Fiona Draper  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Fiona

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10 November 2017

Cacatua General Services  
George Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear George

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10 November 2017

Gina Field  
4 Meldrum Place  
GUNNEDAH NSW 2380

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Wonnarua Culture Heritage  
Gordon Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

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10 November 2017

Gomeroi Murri Ganuurr Yuuray Wadi Palinka  
Greg Griffiths  
3 Jarmain Close  
GUNNEDAH NSW 2380

Dear Greg

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Hazel Collins  
3 Carroll Street  
GUNNEDAH NSW 2380

Dear Hazel

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If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

DRM Cultural Management  
Helen Faulkner  
81 Wansbeck Valley Road  
CARDIFF NSW 2285

Dear Helen

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

I & E Aboriginal Culture and Heritage  
Ivy Jaeger  
1/162 Myall Road  
CARDIFF NSW 2285

Dear Ivy

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Crimson-Rosie  
Jeff Matthews  
6 Eucalypt Avenue  
MUSWELLBROOK NSW 2333

Dear Jeff

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

JLC Cultural Services  
Jenny-Lee Chambers  
39 Goulburn Drive  
SANDY HOLLOW NSW 2333

Dear Jenny-Lee

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
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10 November 2017

Lower Hunter Aboriginal Corporation  
Jill Green  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear Jill

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General Manager, Resources Development  
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10 November 2017

Aboriginal Native Title Consultants  
John & Margaret Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear John & Margaret

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Carrawonga  
Justin Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Justin

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Galamaay Consultant  
Karen Matthews  
21 Bando Street  
GUNNEDAH NSW 2380

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General Manager, Resources Development  
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10 November 2017

Yinarr Cultural Services  
Kathleen Steward-Kinchela  
111 Westwood Rd  
GUNGAL NSW 2333

Dear Kathie

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HECMO Consultants  
Kerren Boyd  
Lot 136 Main Street  
BREEZA NSW 2381

Dear Kerren

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Bawurra Consultants  
Kevin Sampson  
1 Martin Street  
BREEZA NSW 2381

Dear Kevin

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEES NSW 2850

Dear Kristen

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**Chris Lauritzen**  
General Manager, Resources Development  
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10 November 2017

KL.KG Saunders Trading Services  
Krystal Saunders  
20 Ruderford Road  
MUSWELLBROOK NSW 2333

Dear Krystal

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Valley Culture  
Larry van Vliet  
140 Sydney Street  
MUSWELLBROOK NSW 2333

Dear Larry

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**Chris Lauritzen**  
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10 November 2017

Wonnarua Nation Aboriginal Corporation  
Laurie Perry  
PO Box 3066  
SINGLETON NSW 2330

Dear Laurie

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10 November 2017

Jarban & Mugrebea  
Les Atkinson  
11 Nelson Street  
CESSNOCK NSW 2325

Dear Les

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10 November 2017

L.J Culture Management  
Les Field  
4 Hinton Drive  
GUNNEDAH NSW 2380

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10 November 2017

Luke Cameron Cultural Management  
Luke Cameron  
28 Herbert Street  
GUNNEDAH NSW 2380

Dear Luke

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General Manager, Resources Development  
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10 November 2017

Hunter Valley Cultural Surveying  
Luke Hickey  
165 Susan Street  
SCONE NSW 2337

Dear Luke

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**Chris Lauritzen**  
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10 November 2017

Wallangan Cultural Services  
Maree Waugh  
29 Anzac Avenue  
CESSNOCK NSW 2325

Dear Maree

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Phone: 1800 886 889

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Wanaruah Aboriginal Custodians Corporation  
Maria Stocks  
10 Tulloch Close  
SINGLETON NSW 2330

Dear Maria

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

ME Griffiths Cultural Management  
Marie-Ellen Griffiths  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Marie-Ellen

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General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Kayaway Eco-Cultural and Heritage Services  
Mark Hickey  
6/22 Government Street  
THORNTON NSW 2322

Dear Mark

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10 November 2017

Marvonía Welsh  
1 Yabsley Avenue  
MARRICKVILLE NSW 2204

Dear Marvonía

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10 November 2017

Michele Stair  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

Dear Michele

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10 November 2017

Jumbunna Traffic Management Group Pty Ltd  
Norm Archibald  
17 Flowburn Avenue  
WAUCHOPE NSW 2446

Dear Norm

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HTO Environmental Management Services  
Paulette Ryan  
165 Susan Street  
SCONE NSW 2337

Dear Paulette

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10 November 2017

Wonnarua Culture and Heritage  
Rebecca Lester  
20 Regent Street  
CESSNOCK NSW 2325

Dear Rebecca

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10 November 2017

Upper Hunter Wonnarua Council Incorporated  
Rhoda Perry  
PO Box 184  
SINGLETON NSW 2330

Dear Rhoda

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Phone: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Hunter Valley Aboriginal Corporation  
Rhonda Griffiths  
PO Box 579  
MUSWELLBROOK NSW 2333

Dear Rhonda

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Ungooroo Cultural & Community Services Inc  
Rhonda Ward  
8 Blaxland Avenue  
SINGLETON NSW 2330

Dear Rhonda

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General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Hunter Valley Traditional Owner Environmental Management Services  
Rick Coles  
PO Box 1042  
SINGLETON NSW 2330

Dear Rick

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Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Murrawan Cultural Consultants  
Robert Smith  
33 Clift Street  
HEDDON GRETA NSW 2321

Dear Robert

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**Chris Lauritzen**  
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10 November 2017

Kawul Cultural Services  
Rodney Hickey  
33 Gardner Circuit  
SINGLETON NSW 2330

Dear Rodney

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Giwiirr Consultants  
Rodney Matthews  
8 Fitzgerald Avenue  
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**Chris Lauritzen**  
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10 November 2017

Tocomwall Pty Ltd  
Scott Franks  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott

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Plains Clans of the Wonnarua People Registered Native Title Claim  
Scott Franks & Robert Lester  
C/- Tocomwall Pty Ltd  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott & Robert

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Gomeroi Namoi Traditional Owners  
Stephen Talbott  
73 Kiah Road  
GILLIESTON HEIGHTS NSW 2321

Dear Stephen

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C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Widescope Indigenous Group Pty Ltd  
Steven Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Steven

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Moreeites  
Susan Cutmore  
11/97 Brook Street  
MUSWELLBROOK NSW 2333

Dear Susan

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General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Wanaruah Local Aboriginal Lands Council  
Suzie Worth & Noel Downs  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Suzie & Noel

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General Manager, Resources Development  
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10 November 2017

Bunda Counsultants  
Tammy Knox  
23 Cunningham Street  
TAMWORTH NSW 2340

Dear Tammy

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Breeza Plains Culture and Heritage Consultants  
Terry Matthews  
396 Armidale Road  
TAMWORTH NSW 2340

Dear Terry

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10 November 2017

Smith Dhagaans Cultural Group  
Timothy Smith  
46 Springvale Circuit  
CAMERON PARK NSW 2285

Dear Timothy

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Lower Hunter Wonnarua Council Inc.  
Tom Miller  
51 Bowden Street  
HEDDON GRETA NSW 2321

Dear Tom

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10 November 2017

T & G Culture Consultants  
Tony Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Tony

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Culturally Aware  
Tracey Skene  
7 Crawford Place  
MILLFIELD NSW 2325

Dear Tracey

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Phone: 1800 886 889

If you require any further information regarding the Mount Pleasant Operation, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

My Land Cultural Heritage  
Warren Schillings  
4 Wattle Street  
GUNNEDAH NSW 2380

Dear Warren

**RE: MOUNT PLEASANT OPERATION – RAIL MODIFICATION – DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Ltd (MACH Energy) is seeking environmental approval under the New South Wales (NSW) *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for a modification to the approved Mount Pleasant Operation Development Consent (DA 92/97).

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**Chris Lauritzen**  
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10 November 2017

Warren Taggart  
78 Castlereagh Street  
SINGLETON NSW 2330

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Bigundi Biame Traditional People  
Wayne Griffiths  
16 South Street  
GUNNEDAH NSW 2380

Dear Wayne

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General Manager, Resources Development  
Mount Pleasant Operation

10 November 2017

Valley ELM Corp  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des

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**Chris Lauritzen**  
General Manager, Resources Development  
Mount Pleasant Operation



10 November 2017

Amanda Howard  
The Cottage, Corner Brentwood and Brecht Street  
MUSWELLBROOK NSW 2333

Dear Amanda

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10 November 2017

A1 Indigenous Services  
Carolyn Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Carolyn

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22 November 2017

AGA Services  
Adam Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear Adam

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**Chris Lauritzen**  
General Manager Resources Development  
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22 November 2017

Aliera French Trading  
Aliera French  
12 Haydon Street  
MUSWELLBROOK NSW 2333

Dear Aliera

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22 November 2017

Buda Mada Koori Womens Aboriginal Corporation  
Alison Howlett  
PO Box 3011  
SINGLETON NSW 2330

Dear Alison

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Ungooroo Aboriginal Corporation  
Allen Paget  
PO Box 3095  
SINGLETON NSW 2330

Dear Allen

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Mobile: 1800 886 889

If you require any further information regarding the MPO, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Amanda Hickey Cultural Services  
Amanda Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Amanda

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Gidawaa Walang Cultural Heritage Consultancy  
Anne Hickey  
76 Lang Street  
KURRI KURRI NSW 2327

Dear Anne

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Wonnarua Elders Council Inc.  
Arthur Fletcher  
PO Box 844  
ESSNOCK NSW 2325

Dear Arthur

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Kauwul (Wonn 1)  
Arthur Fletcher  
619 Main Road  
GLENDALE NSW 2285

Dear Arthur

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Barry & Colleen Stair  
8 Acacia Drive  
MUSWELLBROOK NSW 2333

Dear Barry & Colleen

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General Manager Resources Development  
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22 November 2017

Lower Wonnarua Tribal Consultancy Pty Ltd  
Barry Anderson  
156 Inlet Road  
BULGA NSW 2330

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**Chris Lauritzen**  
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22 November 2017

Yarrowalk Enterprises  
Barry McTaggart  
913 Wollombi Road  
BROKE NSW 2330

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**Chris Lauritzen**  
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BJC Cultural Management  
Ben Cameron  
11 Stanley Street  
GUNNEDAH NSW 2380

Dear Ben

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Muswellbrook Culture Consultants  
Brian Horton  
10 Scott Street  
MUSWELLBROOK NSW 2333

Dear Brian

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Chantae Griffiths  
14 Westerweller Street  
GUNNEDAH NSW 2380

Dear Chantae

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
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22 November 2017

Hunter Valley Cultural Consultants  
Christine Archbold  
13 Bimbadeen Drive  
MUSWELLBROOK NSW 2333

Dear Christine

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Clifford Johnson  
77 Tobruk Avenue  
MUSWELLBROOK NSW 2333

Dear Clifford

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Darrel Matthews  
4 Calgaroo Avenue  
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Lower Hunter Aboriginal Incorporated  
David Ahoy  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

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Upper Hunter Natural and Cultural Resources Management  
David French  
Flat 3, 60 Tindale Street  
MUSWELLBROOK NSW 2333

Dear David

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Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the MPO, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Gomery Cultural Consultants  
David Horton  
18 Caroon Reserve  
CAROONA NSW 2343

Dear David

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Divine Diggers Aboriginal Cultural Consultants  
Deidre Perkins  
6 Ashleigh Street  
HEDDON GRETA NSW 2321

Dear Deidre

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

DFTV Enterprises  
Derrick Vale Sr  
5 Mountbatten Close  
RUTHERFORD NSW 2320

Dear Derrick

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Wattaka Wonnarua Cultural Consultants Service  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des

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Yours sincerely,



**Chris Lauritzen**  
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22 November 2017

Wonnarua Traditional Custodians  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

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Deslee Talbot Consultant  
Deslee Matthews  
2/19 South Street  
GUNNEDAH NSW 2380

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22 November 2017

Waabi Gabinya Cultural Consultancy  
Elizabeth Howard  
19 Foley Street  
MUSWELLBROOK NSW 2333

Dear Elizabeth

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**Chris Lauritzen**  
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Esther Tighe  
1/86 Edward Street  
GUNNEDAH NSW 2380

Dear Esther

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**Chris Lauritzen**

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Fiona Draper  
10 Herbert Street  
GUNNEDAH NSW 2380

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Cacatua General Services  
George Sampson  
260 Hidden Valley ROW  
WYBONG NSW 2333

Dear George

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Gina Field  
4 Meldrum Place  
GUNNEDAH NSW 2380

Dear Gina

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Wonnarua Culture Heritage  
Gordon Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Gordon

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Gomerioi Murri Ganuurr Yuuray Wadi Palinka  
Greg Griffiths  
3 Jarmain Close  
GUNNEDAH NSW 2380

Dear Greg

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Hazel Collins  
3 Carroll Street  
GUNNEDAH NSW 2380

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General Manager Resources Development  
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22 November 2017

DRM Cultural Management  
Helen Faulkner  
81 Wansbeck Valley Road  
CARDIFF NSW 2285

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**Chris Lauritzen**  
General Manager Resources Development  
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22 November 2017

I & E Aboriginal Culture and Heritage  
Ivy Jaeger  
1/162 Myall Road  
CARDIFF NSW 2285

Dear Ivy

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**Chris Lauritzen**  
General Manager Resources Development  
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22 November 2017

Crimson-Rosie  
Jeff Matthews  
6 Eucalypt Avenue  
MUSWELLBROOK NSW 2333

Dear Jeff

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

JLC Cultural Services  
Jenny-Lee Chambers  
39 Goulburn Drive  
SANDY HOLLOW NSW 2333

Dear Jenny-Lee

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Lower Hunter Aboriginal Corporation  
Jill Green  
5 Killara Drive  
CARDIFF SOUTH NSW 2285

Dear Jill

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Aboriginal Native Title Consultants  
John & Margaret Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear John & Margaret

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Carrawonga  
Justin Matthews  
4 Calgaroo Avenue  
MUSWELLBROOK NSW 2333

Dear Justin

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Galamaay Consultant  
Karen Matthews  
21 Bando Street  
GUNNEDAH NSW 2380

Dear Karen

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22 November 2017

Yinarr Cultural Services  
Kathleen Steward-Kinchela  
111 Westwood Rd  
GUNGAL NSW 2333

Dear Kathie

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**Chris Lauritzen**  
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22 November 2017

HECMO Consultants  
Kerren Boyd  
Lot 136 Main Street  
BREEZA NSW 2381

Dear Kerren

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Yours sincerely,



**Chris Lauritzen**  
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Bawurra Consultants  
Kevin Sampson  
1 Martin Street  
BREEZA NSW 2381

Dear Kevin

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**Chris Lauritzen**  
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22 November 2017

Warrabinga Native Title Claimants Aboriginal Corporation  
Kristen Kerr  
PO Box 282  
MUDGEE NSW 2850

Dear Kristen

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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C/- Julie Fletcher  
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Mobile: 1800 886 889

If you require any further information regarding the MPO, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

KL.KG Saunders Trading Services  
Krystal Saunders  
20 Ruderford Road  
MUSWELLBROOK NSW 2333

Dear Krystal

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Valley Culture  
Larry van Vliet  
140 Sydney Street  
MUSWELLBROOK NSW 2333

Dear Larry

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Wonnarua Nation Aboriginal Corporation  
Laurie Perry  
PO Box 3066  
SINGLETON NSW 2330

Dear Laurie

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Jarban & Mugrebea  
Les Atkinson  
11 Nelson Street  
CESSNOCK NSW 2325

Dear Les

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22 November 2017

L.J Culture Management  
Les Field  
4 Hinton Drive  
GUNNEDAH NSW 2380

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22 November 2017

Luke Cameron Cultural Management  
Luke Cameron  
28 Herbert Street  
GUNNEDAH NSW 2380

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Hunter Valley Cultural Surveying  
Luke Hickey  
165 Susan Street  
SCONE NSW 2337

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**Chris Lauritzen**  
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22 November 2017

Wallangan Cultural Services  
Maree Waugh  
29 Anzac Avenue  
CESSNOCK NSW 2325

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Wanaruah Aboriginal Custodians Corporation  
Maria Stocks  
10 Tulloch Close  
SINGLETON NSW 2330

Dear Maria

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

ME Griffiths Cultural Management  
Marie-Ellen Griffiths  
10 Herbert Street  
GUNNEDAH NSW 2380

Dear Marie-Ellen

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Kayaway Eco-Cultural and Heritage Services  
Mark Hickey  
6/22 Government Street  
THORNTON NSW 2322

Dear Mark

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Marvonía Welsh  
1 Yabsley Avenue  
MARRICKVILLE NSW 2204

Dear Marvonía

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Yours sincerely,



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22 November 2017

Michele Stair  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

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General Manager Resources Development  
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22 November 2017

Jumbunna Traffic Management Group Pty Ltd  
Norm Archibald  
17 Flowburn Avenue  
WAUCHOPE NSW 2446

Dear Norm

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**Chris Lauritzen**  
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22 November 2017

HTO Environmental Management Services  
Paulette Ryan  
165 Susan Street  
SCONE NSW 2337

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**Chris Lauritzen**  
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Wonnarua Culture and Heritage  
Rebecca Lester  
20 Regent Street  
CESSNOCK NSW 2325

Dear Rebecca

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MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the MPO, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Upper Hunter Wonnarua Council Incorporated  
Rhoda Perry  
PO Box 184  
SINGLETON NSW 2330

Dear Rhoda

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Hunter Valley Aboriginal Corporation  
Rhonda Griffiths  
PO Box 579  
MUSWELLBROOK NSW 2333

Dear Rhonda

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**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Ungooroo Cultural & Community Services Inc  
Rhonda Ward  
8 Blaxland Avenue  
SINGLETON NSW 2330

Dear Rhonda

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Hunter Valley Traditional Owner Environmental Management Services  
Rick Coles  
PO Box 1042  
SINGLETON NSW 2330

Dear Rick

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Murrawan Cultural Consultants  
Robert Smith  
33 Clift Street  
HEDDON GRETA NSW 2321

Dear Robert

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Kawul Cultural Services  
Rod Hickey  
33 Gardner Circuit  
SINGLETON NSW 2330

Dear Rodney

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Giwiirr Consultants  
Rodney Matthews  
8 Fitzgerald Avenue  
MUSWELLBROOK NSW 2333

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**Chris Lauritzen**  
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Roger Noel Matthews  
3 Nowland Street  
MUSWELLBROOK NSW 2333

Dear Roger

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**Chris Lauritzen**

General Manager Resources Development  
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22 November 2017

Tocomwall Pty Ltd  
Scott Franks  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Plains Clans of the Wonnarua People Registered Native Title Claim  
Scott Franks & Robert Lester  
C/- Tocomwall Pty Ltd  
PO Box 76  
CARINGBAH NSW 1495

Dear Scott & Robert,

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Gomeroi Namoi Traditional Owners  
Stephen Talbott  
73 Kiah Road  
GILLIESTON HEIGHTS NSW 2321

Dear Stephen

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Widescope Indigenous Group Pty Ltd  
Steven Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Steven

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

Moreeites  
Susan Cutmore  
11/97 Brook Street  
MUSWELLBROOK NSW 2333

Dear Susan

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22 November 2017

Wanaruah Local Aboriginal Lands Council  
Suzie Worth & Noel Downs  
PO Box 127  
MUSWELLBROOK NSW 2333

Dear Suzie & Noel,

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22 November 2017

Bunda Counsultants  
Tammy Knox  
23 Cunningham Street  
TAMWORTH NSW 2340

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22 November 2017

Breeza Plains Culture and Heritage Consultants  
Terry Matthews  
396 Armidale Road  
TAMWORTH NSW 2340

Dear Terry

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**Chris Lauritzen**  
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22 November 2017

Smith Dhagaans Cultural Group  
Timothy Smith  
46 Springvale Circuit  
CAMERON PARK NSW 2285

Dear Timothy

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Lower Hunter Wonnarua Council Inc.  
Tom Miller  
51 Bowden Street  
HEDDON GRETA NSW 2321

Dear Tom

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

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Yours sincerely,



**Chris Lauritzen**  
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22 November 2017

T & G Culture Consultants  
Tony Griffiths  
19 O'Donnell Crescent  
METFORD NSW 2333

Dear Tony

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Culturally Aware  
Tracey Skene  
7 Crawford Place  
MILLFIELD NSW 2325

Dear Tracey

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Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation



22 November 2017

My Land Cultural Heritage  
Warren Schillings  
4 Wattle Street  
GUNNEDAH NSW 2380

Dear Warren

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Yours sincerely,



**Chris Lauritzen**  
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Mount Pleasant Operation

22 November 2017

Warren Taggart  
78 Castlereagh Street  
SINGLETON NSW 2330

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Yours sincerely,



**Chris Lauritzen**

General Manager Resources Development  
Mount Pleasant Operation

22 November 2017

Bigundi Biame Traditional People  
Wayne Griffiths  
16 South Street  
GUNNEDAH NSW 2380

Dear Wayne

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**Chris Lauritzen**  
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Valley ELM Corp  
Des Hickey  
4 Kennedy Street  
SINGLETON NSW 2330

Dear Des

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Yours sincerely,



**Chris Lauritzen**  
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22 November 2017

Amanda Howard  
The Cottage, Corner Brentwood and Brecht Street  
MUSWELLBROOK NSW 2333

Dear Amanda

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Mount Pleasant Operation

22 November 2017

A1 Indigenous Services  
Carolyn Hickey  
73 Russell Street  
EMU PLAINS NSW 2750

Dear Carolyn

**RE: MOUNT PLEASANT OPERATION – INFORMATION SESSION AND SITE INSPECTION FOR DRAFT ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

As you would be aware, MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

### **Information Session and Site Inspection**

A copy of the draft Aboriginal Cultural Heritage Assessment (ACHA) for the proposed Rail Modification at the MPO (the Modification) was provided for your review and comment on 10 November 2017. As part of the review process for the draft ACHA, MACH Energy would like to offer all Registered Aboriginal Parties the opportunity to attend an information session regarding the draft ACHA as well as an associated site inspection.

The purpose of the information session is to discuss the key findings of the draft ACHA report and to provide an opportunity for RAPs to discuss, ask questions and/or provide comment on the draft ACHA, particularly the cultural significance and proposed management measures. Note that issues can be raised at any point during the consultation process. Representatives from the consulting archaeologists and MACH Energy will be in attendance at the information session.

In addition to the information session, MACH Energy would also like to offer all RAPs the opportunity to attend a site inspection to view portions of the Study Area.

**The information session and site inspection will be held on Thursday 7 December 2017 and will be held at the MPO Administration Offices (Wybong Road, Muswellbrook) and will commence at 1.00pm (and will conclude by approximately 4.00 pm).**

Light refreshments and drinks will be provided. However, please note that MACH Energy will not be paying for travel expenses or attendance at the information session or site inspection.

All participants attending the site inspection will need to bring appropriate enclosed footwear, long pants, high visibility long sleeve shirt (or vest) and a hat.

Should you wish to inspect any specific sites and/or areas during the site inspection, please advise MACH Energy (via the contact details provided below) prior to the site inspection and the request will be taken into consideration.

Transport from the MPO Administration Offices to the Study Area and around the Study Area (to the sites to be inspected) will be provided by MACH Energy. Should anyone require assistance (or know of someone requiring assistance) in relation to boarding buses, mobility or have any specific dietary requirements, please advise MACH Energy via the contact details below prior to attendance at the information sessions and/or site inspections.

**Aboriginal Community Elders**

MACH Energy welcomes and requests community Elders to attend the information session and/or site inspection. Should anyone know of an Elder who may not be a RAP or who may not be aware of the information session/site inspection, could you please let MACH Energy know (via the contact details below) so that they can be invited/involved.

**Cultural Values**

The draft ACHA reports for the Modification, which have separately been provided for your review, include a consideration of known cultural values associated with the Study Area and surrounds. Any additional cultural values input provided during the draft ACHA review period will be incorporated and considered as the ACHA reports are finalised.

Should you have any queries regarding the Modification, or to indicate whether you are interested in attending the information session and site inspection please advise MACH Energy via the contact details provided below by 4 December 2017:

MACH Energy Australia Pty Ltd  
C/- Julie Fletcher  
Email: [julie.fletcher@machenergyaustralia.com.au](mailto:julie.fletcher@machenergyaustralia.com.au)  
Mobile: 1800 886 889

If you require any further information regarding the MPO, please contact us on 1800 886 889.

Yours sincerely,



**Chris Lauritzen**  
General Manager Resources Development  
Mount Pleasant Operation

Name	Registered Aboriginal Group	Signature
Arthur C. Fletcher	KAYWUKTA WONGI	A.C. Fletcher
RICHARD EDWARDS	W.E.C	R. Edwards
Ross Pahrny	HVAC	R. Pahrny
Rhonda Griffiths	HVAC	R. Griffiths
Noel Downs	WLALC	

## Appendix 3 - Surface and Subsurface Test Excavation Methodologies

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MOUNT PLEASANT OPERATION TRANSPORT MODIFICATION

PROPOSED METHODOLOGY  
ABORIGINAL CULTURAL HERITAGE ASSESSMENT



SEPTEMBER 2017  
Project No. MAC-16-01  
Document No. 00872317

## 1 INTRODUCTION

The Mount Pleasant Operation (MPO) is an approved open cut coal mining operation located in the Upper Hunter Valley of New South Wales (NSW), approximately 4 kilometres north-west of Muswellbrook (Figure 1).

MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the NSW *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved MPO Development Consent (DA 92/97).

In this regard, MACH Energy proposes to commence preparation of an Aboriginal Cultural Heritage Assessment(s) (ACHA) for a modification to the approved MPO Development Consent (DA 92/97) to include various additional infrastructure components, and/or an application to the Muswellbrook Shire Council for the new public road linking Bengalla Road and Wybong Road (Eastern Link Road) (collectively referred to as the Modification).

The additional infrastructure may include conveyors, rail lines, public and internal roads, water supply pipelines and other minor infrastructure. The field surveys described in Section 5 will be undertaken to conservatively allow for all potential additional infrastructure (i.e. the surveys will cover a larger area than will be required to be disturbed for the Modification). This will also allow for infrastructure design to consider the results of field surveys and any Aboriginal heritage sites identified.

Key components of the Modification would include the construction of a new rail loop and associated loadout infrastructure (including a conveyor), as well as the Eastern Link Road. The Modification would also involve the decommissioning of the approved rail loop and associated infrastructure, as well as an alternative water supply pipeline (the currently approved water supply pipeline shares the same alignment as the currently approved rail loop and spur). Final positioning of the alignments for the rail (and associated loadout infrastructure, e.g. conveyor), Eastern Link Road and water supply pipeline will be subject to detailed design as well as further consultation with the NSW Department of Planning and Environment and the Muswellbrook Shire Council. The areas of land that the ACHA(s) for the Modification relates to are shown on Figure 2 (refer to 'indicative study area').

Approved disturbance areas at the MPO, areas subject to previous systematic survey and those areas within the extent of the existing MPO Aboriginal Heritage Impact Permit (AHIP) boundaries, would not be subject to survey as part of the Modification (although potential impacts would be considered as part of the impact assessment).

As part of the modification request, MACH Energy will be preparing an ACHA(s) to identify ways to avoid or minimise potential harm to Aboriginal objects (including appropriate management and mitigation measures). Following both this assessment(s) and the community consultation process described in the following sections, a new AHIP(s) will likely be sought under section 90 of the NSW *National Parks and Wildlife Act, 1974* to move and/or destroy Aboriginal objects (or a variation to the existing permits).

This document presents a Proposed Methodology for the ACHA(s) for the Modification. The Proposed Methodology has been designed to conform to the relevant requirements of various regulatory and advisory documents and guidelines. These guidelines and documents include (but are not limited to):

- *Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation* (NSW Department of Environment and Conservation [DEC], 2005), for assessing potential impacts on Aboriginal cultural heritage for development applications assessed under Part 3A of the NSW *Environmental Planning and Assessment Act, 1979*.



- *Aboriginal cultural heritage consultation requirements for proponents 2010 (Part 6 National Parks and Wildlife Act, 1974)* (NSW Department of Environment, Climate Change and Water [DECCW], 2010a).
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).
- *The Australia ICOMOS Burra Charter* (Australia ICOMOS, 2013).
- *Aboriginal Cultural Heritage: Standards and Guidelines Kit* (NSW National Parks and Wildlife Service, 1997).
- *Ask First: A guide to Respecting Indigenous Heritage Places and Values* (Australian Heritage Commission, 2002).
- *Clause 80C of the NSW National Parks and Wildlife Regulation, 2009* (New South Wales Government, 2009).
- *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW, 2010c).
- *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (NSW Office of Environment and Heritage [OEH], 2011).
- *NSW National Parks and Wildlife Act, 1974: Part 6 Approvals – Interim Community Consultation Requirements for Applicants* (DEC, 2004).
- *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects* (NSW Minerals Council, 2010).
- *Engage Early – Guidance for proponents on best practice Indigenous engagement for environmental assessments under the Environment Protection and Biodiversity Conservation Act* (Department of the Environment, 2016).

## 2 MANAGEMENT OF ABORIGINAL HERITAGE AT THE MPO

MACH Energy holds two separate AHIPs relevant to the MPO area for the management of Aboriginal heritage, including:

- AHIP #C0002053 – approved by the OEH on 25 August 2016 for a period of 10 years.
- AHIP #C0002092 – approved by the OEH on 23 December 2011 for a period of 5 years. Transferred to MACH Energy on 8 September 2016.

The extents of AHIP #C000205 and AHIP #0002092 are presented on Figure 2.

In addition to the requirements of the above-described AHIPs, the management of Aboriginal heritage at the MPO is also undertaken in accordance with the approved Mount Pleasant Operation – Aboriginal Heritage Management Plan (MACH Energy, 2017).

### 3 PREVIOUS ARCHAEOLOGICAL INVESTIGATIONS

The Hunter Valley region has been subject to an increasing number of Aboriginal cultural heritage surveys, assessments and investigations. Previous investigations undertaken at the MPO and immediate surrounds include (but are not limited to):

- Aboriginal cultural heritage assessments and archaeological surveys for the MPO:
  - *Mt Pleasant Coal Lease, New Muswellbrook, NSW: Archaeological survey for Aboriginal sites* (Rich, 1995).
  - *Mt Pleasant Mine EIS North-West Emplacement Area Archaeological Investigations* (ERM Mitchell McCotter, 1996).
  - *Mt Pleasant Mine EIS Fine Rejects Emplacement Area Archaeological Investigations* (ERM Mitchell McCotter, 1997b).
  - *Aboriginal Heritage Assessment: Mount Pleasant Block 1* (HLA-Envirosciences, 2007).
  - *Mount Pleasant Indigenous Archaeological Assessment Stage 2* (McCardle Cultural Heritage Management, 2007).
  - *Aboriginal Cultural Survey Stage 3 Mount Pleasant, NSW* (Roberts, 2007).
  - *Coal & Allied Stage 4 Mount Pleasant Aboriginal Cultural and Heritage Report* (Nur-Run-Gee, 2007).
  - *Technical Advisor Report: Cultural Heritage Investigations Stage 5 Mount Pleasant Mine, Hunter Valley* (Scarp Archaeology, 2009).
  - *Technical Advisor Report: Cultural Heritage Investigations, Conveyor Easement Survey, Mount Pleasant Mine, Hunter Valley* (Scarp Archaeology, 2010a).
  - *Technical Advisor Report: Cultural Heritage Investigations of the Proposed Broomfield Aboriginal Cultural Heritage Conservation Area for the Mount Pleasant Coal Mine, Hunter Valley, Muswellbrook LGA* (Scarp Archaeology, 2010b).
  - *Technical Advisor Preliminary Advice: Cultural Heritage Investigations - Mount Pleasant Mine, Hunter Valley Stage 6* (Scarp Archaeology, 2011).
- Various archaeological assessments and surveys undertaken for the Bengalla Coal Mine (Rich, 1993; Environmental Resources Management Australia, 2007a).
- Various salvage reports (Environmental Resources Management Australia, 2007b; ENSR Australia, 2008).
- On-going salvage, investigations and Aboriginal heritage management activities at the MPO.

An Aboriginal Heritage Site Database has been developed for the MPO and is maintained by MACH Energy. The Aboriginal Heritage Site Database is based on numerous archaeological surveys and assessments undertaken at the MPO.

The previously identified Aboriginal cultural heritage sites located at the MPO are presented on Figure 3, with the exception of those sites that have already been subject to salvage and/or management.

## **4 PRELIMINARY PREDICTIVE MODEL**

Consideration of the results of previous archaeological investigations indicates that previously unidentified Aboriginal cultural heritage sites may occur in and around the Study Area (Figure 2):

- Aboriginal cultural heritage sites are known to exist within and around the Study Area.
- Other site types, such as scarred trees or grinding grooves, have also been reported to occur within the region, but to a much lesser degree.
- The Study Area has been subjected to intensive agricultural practices over the past century which have variously impacted upon the survival of Aboriginal heritage sites. Agricultural activities have included vegetation clearance, crop production, animal pasture, road construction, exploration and localised mining activity.
- On the basis of the nature of the known archaeological record in the wider region and the landforms present in the Study Area, it has been determined that the area retains potential to contain some Aboriginal heritage sites (e.g. artefact scatters).

## **5 PROPOSED METHODOLOGY**

The Proposed Methodology for the cultural and archaeological assessment for the ACHA(s) is as follows:

- Conduct a search of the Aboriginal Heritage Information Management System database and existing Aboriginal Heritage Sites Databases.
- Conduct a search of the National Heritage List, Commonwealth Heritage List and the Register of the National Estate.
- Conduct a desktop assessment to delineate areas of known and predicted Aboriginal objects, places and/or Aboriginal heritage values, including a detailed review of previous assessments.
- Provision of existing information on Aboriginal heritage sites within the Study Area and immediate surrounds to the Registered Aboriginal Parties (RAPs).
- Identify the Aboriginal cultural heritage values associated with the relevant area through consulting with Aboriginal people with cultural knowledge or responsibilities for Country in which the Modification will occur.
- Representative archaeological survey of the Study Area, which will likely be undertaken using a combined approach of vehicular and pedestrian transects, and informed by the results of previous archaeological investigations.
- Conduct an archaeological assessment (including an archaeological significance assessment) of any known or potential Aboriginal heritage sites identified within the Study Area (which may include the use of existing information).
- Document any comments regarding the cultural significance of Aboriginal heritage sites and/or areas within the Study Area.
- Document the Aboriginal cultural heritage impact assessment and the recommendations to minimise potential impacts on Aboriginal cultural heritage.
- In consultation with the RAPs, develop recommended management and mitigation measures for Aboriginal objects, places and/or Aboriginal cultural heritage values within the Study Area.
- A request by MACH Energy to RAPs for comments regarding the cultural significance of Aboriginal heritage sites and/or areas within the Study Area.

- In consultation with the RAPs, identification of recommended management and mitigation measures for Aboriginal heritage sites/areas within the Study Area.
- Provide a copy of the draft ACHA(s) to the RAPs for their review and feedback.
- Documentation of feedback received as part of the cultural assessment from RAPs for presentation in the final ACHA report(s) (subject to the sensitivity of the information provided).

In accordance with the OEH policy *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW, 2010a), MACH Energy will request that RAPs provide, where relevant, during the conduct of the ACHA(s), cultural information regarding:

- whether there are any Aboriginal objects of cultural value to Aboriginal people in the area of the proposed Modification; and
- whether there are any places of cultural value to Aboriginal people in the area of the proposed Modification.

This will include places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance.

In addition, it is noted that the purpose of community consultation with Aboriginal people is to assist MACH Energy in the preparation of an application for an AHIP (and/or a variation application to an existing AHIP), and to assist the Director-General in his or her consideration and determination of the application.

## **6 SENSITIVE CULTURAL INFORMATION – MANAGEMENT PROTOCOL**

In the event that a RAP has sensitive or restricted public access information, it is proposed that MACH Energy would manage this information (if provided by the Aboriginal community) in accordance with a sensitive cultural information management protocol. It is anticipated that the protocol would include making note of and managing the material in accordance with the following key limitations/requirements as advised by the relevant RAP at the time of the information being provided:

- any restrictions on access to the material;
- any restrictions on communication of the material;
- any restrictions on the location/storage of the material;
- any cultural recommendations on handling the material;
- any contextual information;
- any names and contact details of persons authorised by the relevant RAP to make decisions concerning the Aboriginal material and the degree of authorisation;
- any details of any consent given in accordance with customary law;
- the level of confidentiality to be accorded to the material; and
- any access and use by the RAPs of the cultural information in the material.

All RAPs should be aware of the mandatory OEH requirement that all feedback provided must be documented in the final ACHA report(s), including copies of any submissions received and the proponents response to the issues raised.

## **7 ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT**

Following consultation on the Proposed Methodology and the undertaking of any required field components, a draft ACHA report(s) will be prepared. The draft ACHA(S) will be provided to all RAPs for review and comment and will include:

- details of the sites/objects and/or places and their precise locations within the Study Area and an assessment of potential impacts from the Modification;
- detailed records of the consultation conducted with RAPs and how any comments received throughout the assessment process were considered; and
- management and mitigation recommendations drawing on information provided by RAPs and the results of the ACHA(s).

Relevant management and mitigation measures outlined in the existing Aboriginal Heritage Management Plan (MACH Energy, 2017) will also be considered, where relevant to Aboriginal sites located in the Study Area.

## **8 CRITICAL TIMELINES**

Critical timelines for the Modification ACHA(s) are outlined below:

1. Collation of culturally significant information – ongoing throughout process until the end of the draft ACHA review period.
2. Information Session – September/October 2017.
3. Provision of comments on the Proposed Methodology to MACH Energy – September/October 2017.
4. Field survey – anticipated to occur in September/October 2017.
5. Provision of a draft ACHA (including proposed management and mitigation measures) to RAPs for review and comment – anticipated to occur in October/November 2017.
6. Provision of comments from RAPs on draft ACHA to MACH Energy – anticipated to occur in October/November 2017.
7. Finalise ACHA report taking into consideration comments received – anticipated to occur in December 2017.
8. As part of the process, an AHIP(s) (or a variation to an existing AHIP) under section 90 of the NSW *National Parks & Wildlife Act, 1974* will likely be sought. This would occur following finalisation of the ACHA(s).

## REFERENCES

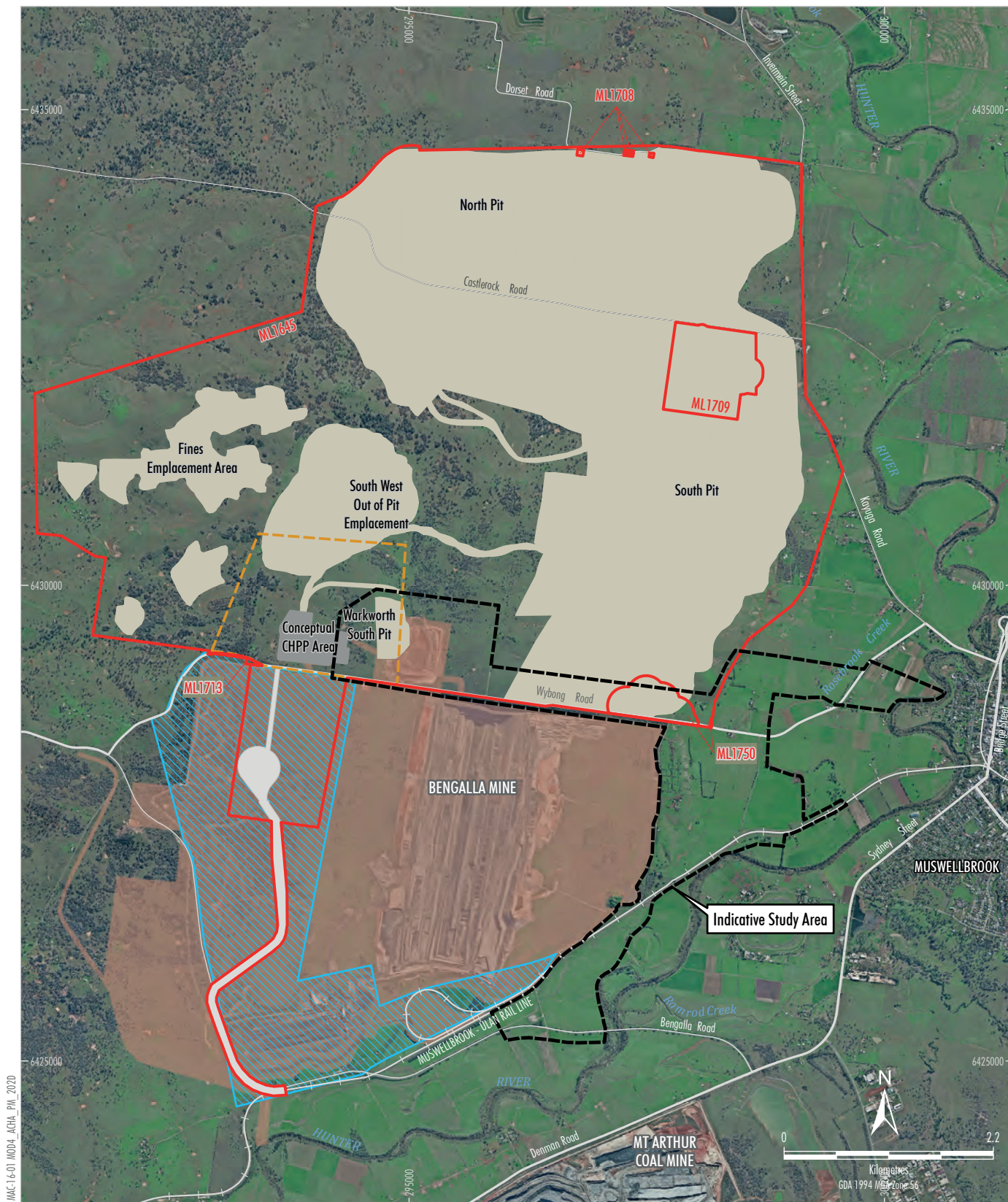
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## FIGURES







- LEGEND**
- Mining Lease Boundary
  - Infrastructure Area Envelope
  - Indicative Offsite Coal Transport Infrastructure
  - Approximate Extent of Approved Surface Development (1997 EIS Year 20)\*
  - Conveyor/Services Corridor Envelope
  - Bengalla Mine Approved Disturbance Boundary (SSD-5170)
  - Indicative Study Area

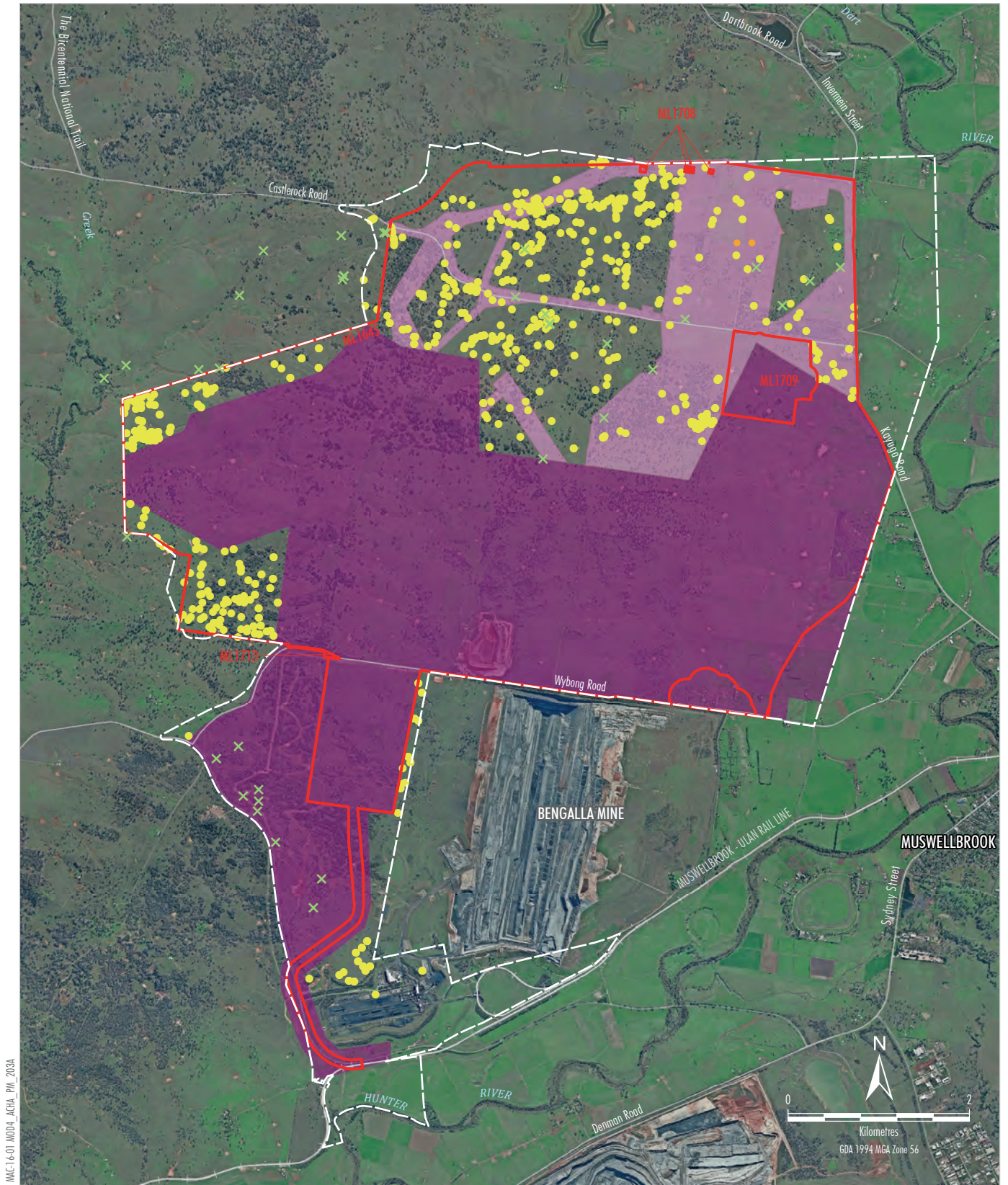
Notes: \* Excludes some project components such as water management infrastructure, infrastructure within the Infrastructure Area Envelope, offsite coal transport infrastructure, road diversions, access tracks, topsoil stockpiles, power supply, temporary offices, other ancillary works and construction disturbance.

Source: NSW Land & Property Information (2017); NSW Division of Resources & Energy (2017); Department of Planning and Environment (2016); MACH Energy (2017)  
Orthophoto: MACH Energy (Aug 2016)









**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Indicative Study Area

**Figure 2**





#### LEGEND

-  Modified Development Consent Boundary<sup>1</sup>
-  Mining Lease Boundary
-  AHIP # C0002053
-  AHIP # C0002092
-  Aboriginal Heritage Sites<sup>2</sup>
-  Knapping Floor
-  Open Artefact Site
-  Stone Source
-  Scarred Tree

<sup>1</sup> Approximate graphical representation of the Schedule of Land presented as Appendix 1 of Development Consent (DA 92/97)

<sup>2</sup> Excluding sites already subject to salvage and/or management.

Source: NSW Land & Property Information (2015); NSW Department Resources & Energy (2016); MACH Energy (2016); Rio Tinto (2016)

**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Known Aboriginal Heritage Sites  
at the Mount Pleasant Operation

Figure 3

# Mount Pleasant Operation

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## Test Excavation Methodology and Sampling Strategy

Prepared for MACH Energy

19 September 2017

## Introduction

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MACH Energy Australia Pty Limited (MACH Energy) is seeking environmental approvals under the New South Wales (NSW) *Environmental Planning and Assessment Act, 1979* and/or Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* for potential future development associated with the approved Mount Pleasant Operation (MPO) Development Consent (DA 92/97).

In this regard, MACH Energy has engaged Niche Environment and Heritage (Niche) to prepare an Aboriginal Cultural Heritage Assessment(s) (ACHA) for a modification to the approved MPO Development Consent (DA 92/97) (to include various additional infrastructure components) and/or to inform the design of local public roads/intersections.

A Proposed Methodology for the ACHAs was provided to all Registered Aboriginal Parties (RAPs) for their review and comment (dated 8 September 2017).

Although the field surveys are yet to be undertaken and/or completed, on the basis of the potentially sensitive landforms identified within the indicative study area (e.g. alluvial terraces and floodplains associated with the Hunter River), Niche anticipates undertaking a preliminary test excavation program to assess the nature of potential sub-surface archaeological deposits which may occur.

This document outlines the proposed test excavation methodology and sampling strategy within the indicative study area. The methodology was prepared in line with the following instruments:

- Requirements outlined in the approved Mount Pleasant Operation Aboriginal Heritage Management Plan.
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW 2010* (Department of Environment, Climate Change and Water [DECCW], 2010) (Code of Practice).
- *NSW National Parks and Wildlife Regulation, 2009*.



## Test excavation methodology

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### Sampling Strategy

The test excavation program is proposed to be sufficiently comprehensive to allow characterisation of the Aboriginal objects present without having a significant impact on the archaeological value of the study area. This includes test excavation pits located specifically to test those areas of potential archaeological deposit (PAD) that have no archaeological exposure or visibility, test the boundaries of known sites (where appropriate) and/or confirm areas of low potential (where relevant).

As stated above, the field surveys have not yet been completed. In this regard, Niche anticipates finalising and revising this methodology as needed, following the completion of the field survey and receipt of feedback and comments from the RAPs. Niche will consolidate and analyse all data collected during the field survey of the indicative study area and based on this will identify final locations for the archaeological excavation campaign. Potential test excavation locations will be selected on the basis of predicted archaeological sensitivity, landscape context, disturbance level and in consultation with the RAPs. Notwithstanding, indicative zones of interest are presented on Figure 1 noting that Zone 1 represents those areas considered to have a lower potential for retaining archaeological subsurface deposits, while Zone 2 represents those areas of likely higher research potential.

The selection of the locations for the test excavations will aim to target representative landform units, any PADs recorded during the survey that warrant investigation and also will consider further investigation of the subsurface potential of recorded surface artefact scatters. Test excavation will be carried out in line with Requirements 16 and 17 of the Code of Practice (DECCW, 2010); combining 0.5 m by 0.5 m test units into open area test trenches to investigate areas no greater than 3 m<sup>2</sup> at each location. Initial excavation units will be extended according to the findings and on the basis of the day to day analysis of recovered artefacts and samples. Further details regarding test excavation techniques are provided below.

### Test Excavation Techniques

It is proposed that the test excavation units would be excavated according to Requirements 16 and 17 of the Code of Practice (DECCW, 2010) including (but not limited to) the following criteria:

- The test excavation pits will be placed in systematic manner appropriate to the scale and locations being investigated, with each investigation point being separated by at least 5 metres (m).
- Test excavation pits would measure 50 centimetres (cm) x 50 cm.
- The test excavation pits will be hand excavated using hand tools only.
- The test excavation program will utilise 5 cm spits for the first test pit for each location, and 10 cm spits for each test pit thereafter (or appropriate sediment profile/stratigraphic excavation (whichever is smaller).
- Spits will be re-adjusted to 5 cm should cultural layers, features or high density of artefacts located. Should well defined cultural layers be found, spits would follow the actual horizons of those layers until all cultural materials are excavated.
- All excavated soil will be dry sieved through 5 mm aperture wire mesh. It is anticipated that dry sieving would be conducted next to each pit, on a tarpaulin and the pits would be immediately backfilled upon completion of the excavation of each sample location.
- Any artefacts and samples will be provided with unique identification numbers, tagged, bagged and prepared for further analysis on site/at excavation base.

- Excavation units will be recorded using standard archaeological practices including written information of the test unit, and photographic and scale-drawn records of the stratigraphy/soil profile, features and informative Aboriginal objects will be made for each single excavation point.
- Excavation units will be excavated to:
  - at least the base of the identified Aboriginal object-bearing units, and will continue to confirm that the soils below are culturally sterile; or
  - to the base of artefact bearing layers, which is expected to the B horizon; or
  - to refusal at rock should this occur in the absence of B horizon or base of artefact layer; or
  - to groundwater, where present.
- Following test excavation, an Aboriginal Site Impact Recording form would be completed and submitted to the AHIMS Registrar as soon as practicable, for each AHIMS site that has been the subject of test excavation.

It is noted that the methodology may be adjusted based on observations made during the surface archaeological survey, advice from a suitably qualified geomorphologist (should further advice be required) and advice from the RAPs. It is further noted that as a result of feedback obtained during the excavations, or in the event of unexpected finds, further modifications to the above-described methodology may be required.

Results of the test excavation will be incorporated into an Archaeological Report (AR) which may form part of an ACHA.

## Storage of Aboriginal Objects

The Code of Practice requirements that any Aboriginal objects that are moved during test excavation must be reburied as soon as practicable in a secure temporary storage location in accordance with Requirement 26 pending any agreement reached as to the long-term management of the salvaged Aboriginal objects.

The person carrying out the test excavation is responsible for ensuring that procedures are put in place so that Aboriginal objects that are reburied are not harmed. The location of the secure temporary storage location must be submitted to AHIMS with a site update record card for the site(s) in question.

In this regard, it is proposed that all recovered archaeological and cultural material will be the subject of preliminary analysis to inform decision making at each location. Recovered archaeological and cultural material will be tagged, labelled and stored in line with the Code of Practice and returned for safe keeping to MACH Energy as per the requirements of the AHMP.

## Proposed Timeframes

The approximate timeframes for this assessment are outlined below. These timeframes are indicative only and are subject to change, however the timing of the below steps will be conveyed to all RAPs as soon as practicable:

- Provision of comments on proposed test excavation methodology and sampling strategy, requested by 20 October 2017.
- Finalisation of proposed test excavation methodology and sampling strategy, 21 October 2017.
- Test excavation fieldwork, proposed week commencing 23 October 2017.

- Provision of a draft ACHA (including proposed management and mitigation measures) to RAPs for review and comment – anticipated to occur in October/November 2017.
- Provision of comments from RAPs on draft ACHA to MACH Energy – anticipated to occur in October/November 2017.
- Finalise ACHA report taking into consideration comments received – anticipated to occur in December 2017.
- As part of the process, an AHIP(s) (or a variation to an existing AHIP) under section 90 of the NSW National Parks & Wildlife Act, 1974 will likely be sought. This would occur following finalisation of the ACHA(s).



## References

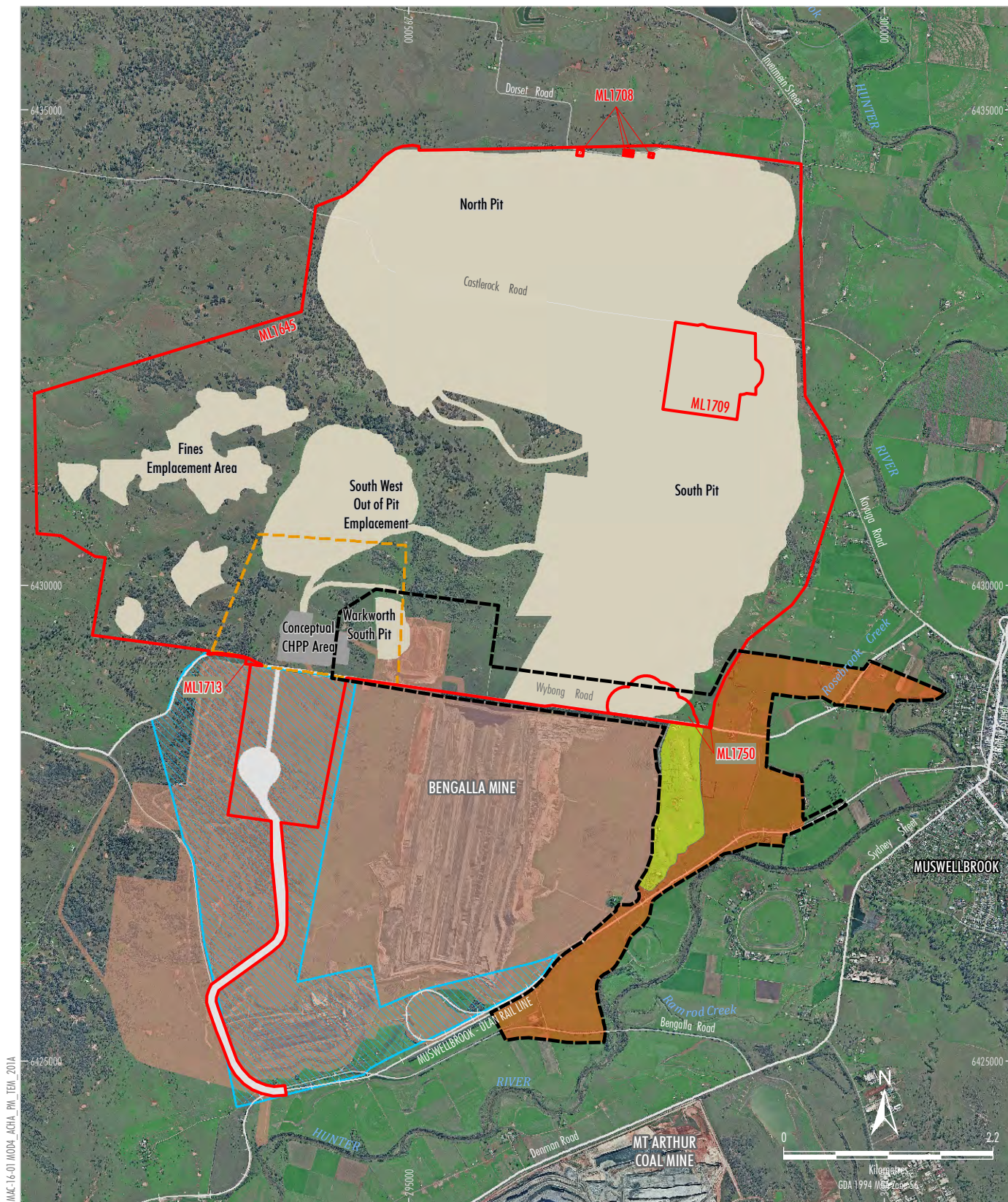
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*Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW 2010* (Department of Environment, Climate Change and Water [DECCW], 2010)

*NSW National Parks and Wildlife Act 1974*

*NSW National Parks and Wildlife Regulation, 2009*

*Mount Pleasant Operation Aboriginal Heritage Management Plan (2017)*



- LEGEND**
- Mining Lease Boundary
  - Infrastructure Area Envelope
  - Indicative Offsite Coal Transport Infrastructure
  - Approximate Extent of Approved Surface Development (1997 EIS Year 20)\*
  - Conveyor/Services Corridor Envelope
  - Bengalla Mine Approved Disturbance Boundary (SSD-5170)
  - Indicative Study Area

Notes: \* Excludes some project components such as water management infrastructure, infrastructure within the Infrastructure Area Envelope, offsite coal transport infrastructure, road diversions, access tracks, topsoil stockpiles, power supply, temporary offices, other ancillary works and construction disturbance.

- Indicative Investigation Area**
- Zone 1
  - Zone 2

Source: NSW Land & Property Information (2017); NSW Division of Resources & Energy (2017); Department of Planning and Environment (2016); MACH Energy (2017)  
Orthophoto: MACH Energy (Aug 2016)

**MACHEnergy**  
MOUNT PLEASANT OPERATION  
Archaeological Test Excavations –  
Zones of Interest

**Figure 1**



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## **Niche Environment and Heritage**

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## Appendix 4 - Test Excavation Results

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A sample of section drawings and photographs have been provided throughout the appendix for the test pits subject to excavation. Due to the repetitive nature of the test pits sections, drawings have not been included for each individual test pit.

## 4.1 Area 1

### Transect 1 Test Pit 1

Spit	Depth	Unit description	Finds
1	0-5cm	<b>Sediment Description</b> Friable red silty loam containing grass, roots, bioturbation and evidence of past agricultural uses. Munsell: 2.5YR 5/6 pH: 5.5	None
2	5-10cm	<b>Sediment Description</b> Friable red silty loam containing grass, roots, bioturbation. Munsell: 2.5YR 5/6 pH: 5.5	None
3	10-15cm	<b>Sediment Description</b> Firm red silty loam containing occasional sandstone rocks. Munsell: 2.5YR 2.5/2 pH: 6	None
4	15-20cm	<b>Sediment Description</b> Compact red silty loam containing occasional sandstone rocks <30cm. Munsell: 5YR 2.5/2 pH: 5.5	None
5	20-25cm	<b>Sediment Description</b> Firm- compact red silty loam containing large sandstone rocks <30cm. Base of spit containing dark red compact silty clay. Munsell: 5YR 2.5/2 pH: 5.5; clay: 2.5 YR 3/6 pH: 6.5	None

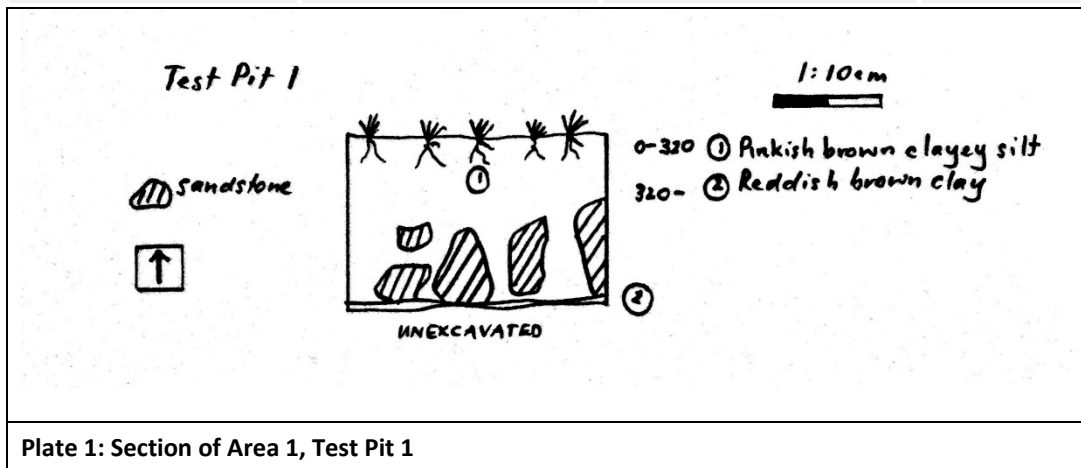


Plate 1: Section of Area 1, Test Pit 1



**Plate 2 Photograph of Area 1, Test Pit 1**

## Transect 1 Test Pit 2

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable red silty loam containing grass, roots, bioturbation and occasional charcoal flecks. Munsell: 2.5YR 4/6 pH: 5.5	None
2	10-19cm	<b>Sediment Description</b> Friable to firm red clayey silt coming down onto compact reddish brown silty clay. Inclusions included charcoal flecks and small pebbles. Munsell: 2.5YR 4/4 pH: 6	None

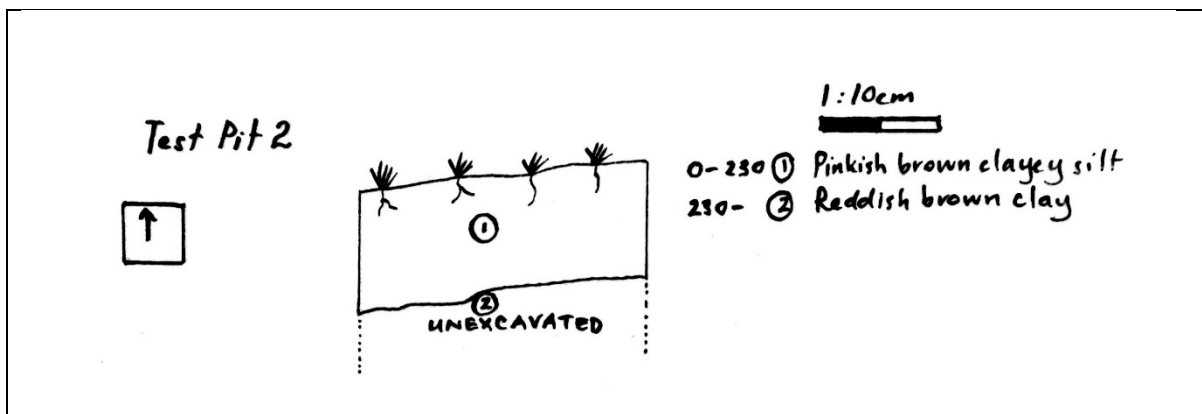


Plate 3: Section of Area 1, Test Pit 2



Plate 4: Photograph of Area 1, Test Pit 2

## Transect 1 Test Pit 3

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact dark reddish brown silty clay mix with patches of red clay. Plough mixing and insect burrows present. Munsell: 2.5YR 3/4 pH: 6.5	None
2	10-20cm	<b>Sediment Description</b> Compact reddish brown silty clay mix with clay increasing with depth and patches of red clay. Evidence of plough mixing and insect burrows. Munsell: 2.5YR 5/4 pH: 5.5	None
3	20-25cm	<b>Sediment Description</b> Compact dark brown clay with light brown silt patches and clay at base. Evidence of insect burrows. Munsell: 2.5YR 5/4 pH: 5.5	None

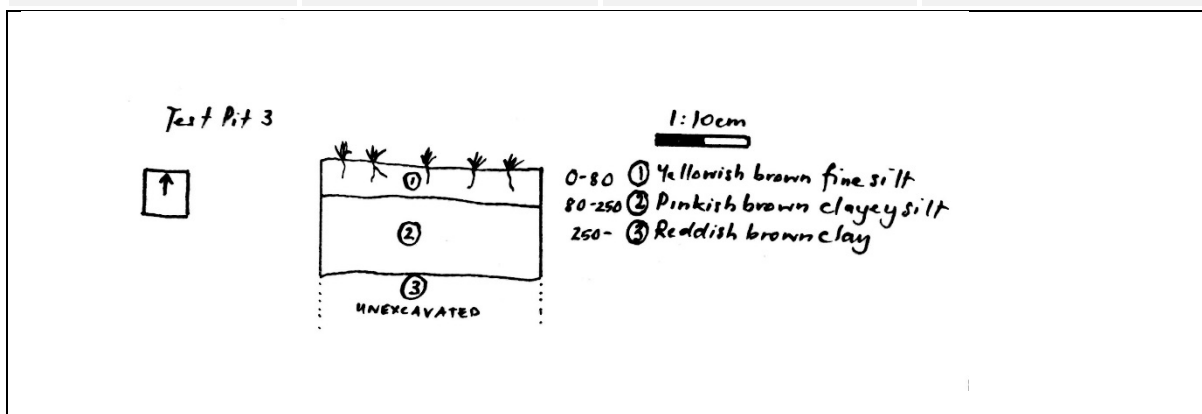


Plate 5: Section of Area 1, Test Pit 3

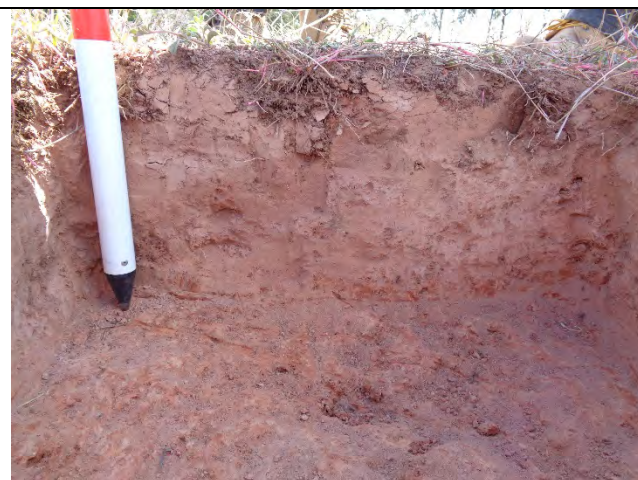


Plate 6: Photograph of Area 1, Test Pit 3 - Northern Section



## Transect 1 Test Pit 4

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact reddish brown clayey silt mix. Insect burrows present. Munsell: 2.5YR 4/3 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Compact reddish brown clayey silt. Sandstone cobbles (10% 6-8cm) and insect burrowing present. Munsell: 2.5YR 4/6 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Compact reddish brown clayey silt transitioning to yellowish red clay at ~27cm. Sandstone cobbles (10% 6-8cm) and insect burrowing present. Munsell: clay 5YR 4/6 pH: 6.5	None

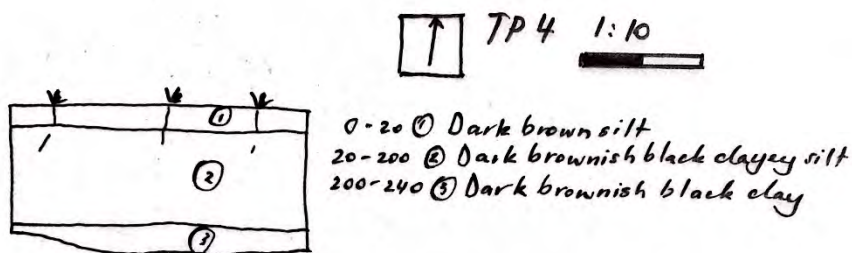


Plate 7: Section of Area 1, Test Pit 4



Plate 8: Photograph of Area 1, Test Pit 4 - Northern Section

## Transect 1 Test Pit 5

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact dark reddish brown clayey silt mix. Insect burrows and grass roots present. Munsell: 2.5YR 3/3 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Compact reddish brown clayey silt with a clear and undulating lower horizon onto dark reddish brown sterile clay. Plant roots and thin (5cm) root channel through base of pit and insect burrowing present. Munsell: 2.5YR 5/3 pH: 6; clay 2.5YR 7/4 pH6.5	None

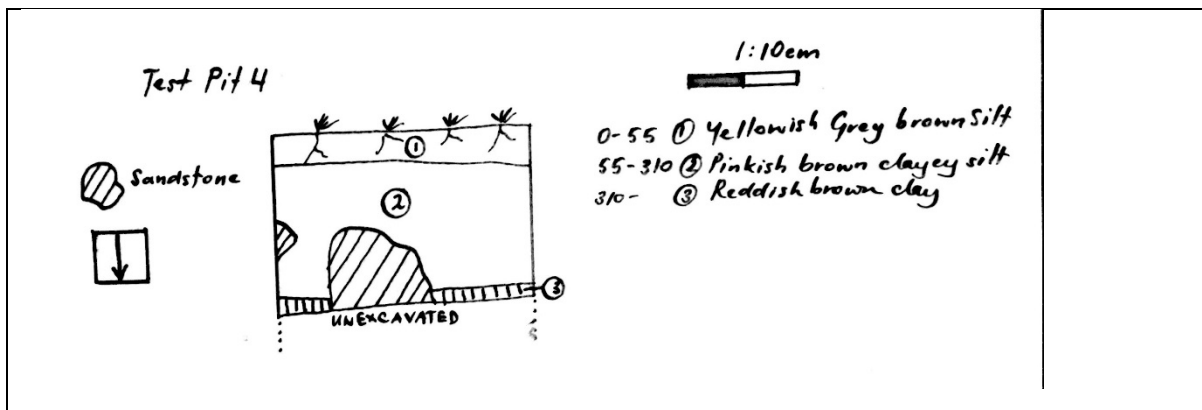


Plate 9: Section of Area 1, Test Pit 5



Plate 10: Photograph of Area 1, Test Pit 5 - Northern Section

## Transect 2 Test Pit 6

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dusky red silty loam (~5cm thickness) overlaying friable reddish brown clayey silt. Small fragments of sandstone (<10cm) grass, occasional charcoal flecks. Munsell: 2.5YR 3/2 pH: 5.5; 2.5YR 5/3 pH:5.5	None
2	10-20cm	<b>Sediment Description</b> Firm reddish brown silty clay with occasional charcoal flecks. Munsell: 2.5YR 5/3 pH:5.5	None
3	20-30cm	<b>Sediment Description</b> Firm reddish brown clay with increasing compaction relative to depth. Munsell: clay 2.5YR 4/6 pH: 7.5	None

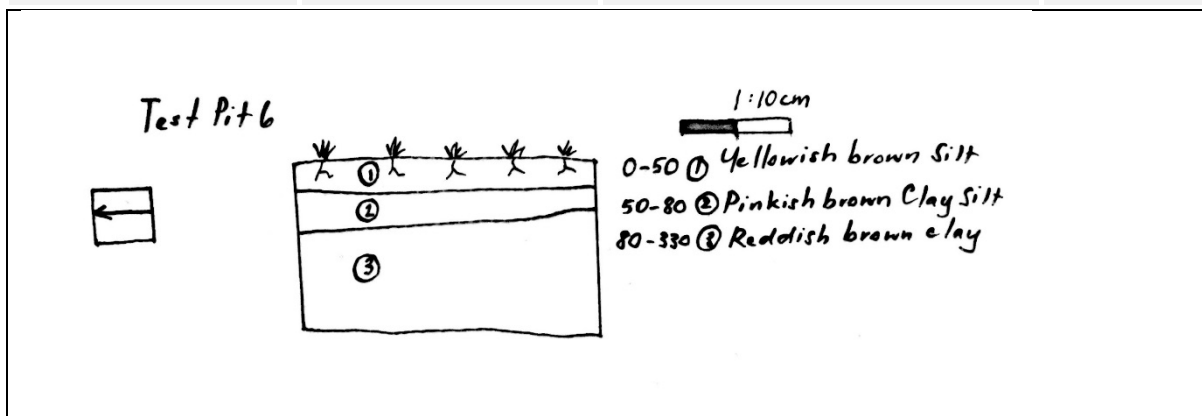


Plate 11: Section of Area 1, Test Pit 6

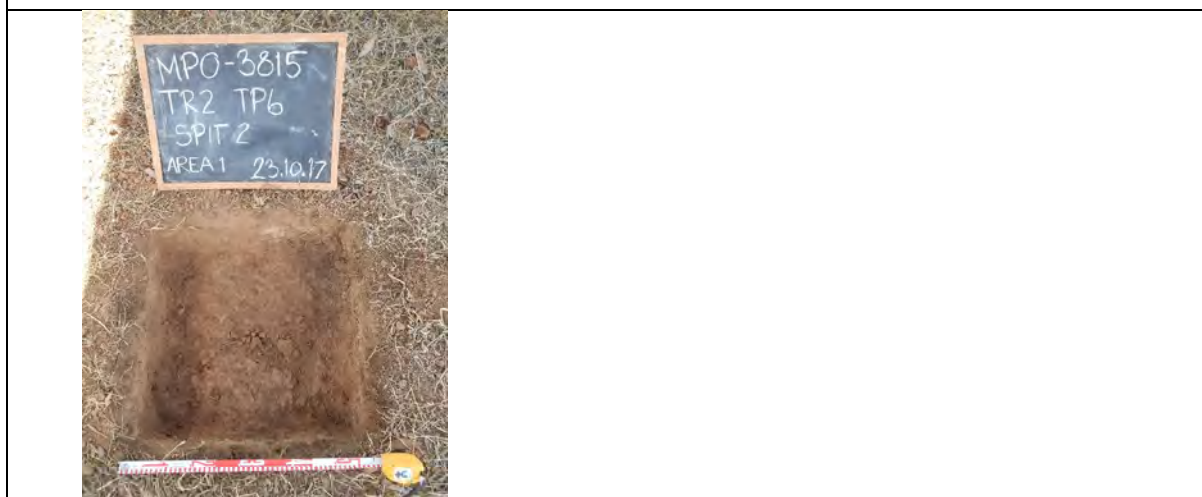


Plate 12: Photograph of Area 1, Test Pit 6

## Transect 2 Test Pit 7

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Firm dusky red fine silt (~5cm thickness) overlaying friable reddish brown clayey silt. Grass roots included within. Munsell: 2.5YR 3/2 pH: 5.5; 2.5YR 4/3 pH:5.5	None
2	10-20cm	<b>Sediment Description</b> Friable reddish brown clayey silt. Occasional tree root and moderate fine roots, area with charcoal in SE corner appears to be natural burnt root channel. Munsell: 2.5YR 4/3 pH:6	None
3	20-30cm	<b>Sediment Description</b> Firm reddish brown clayey silt coming onto compact dark reddish brown silty clay. Tree roots, some small charcoal inclusions. Munsell: clay 2.5YR 4/6 pH: 7.5	None

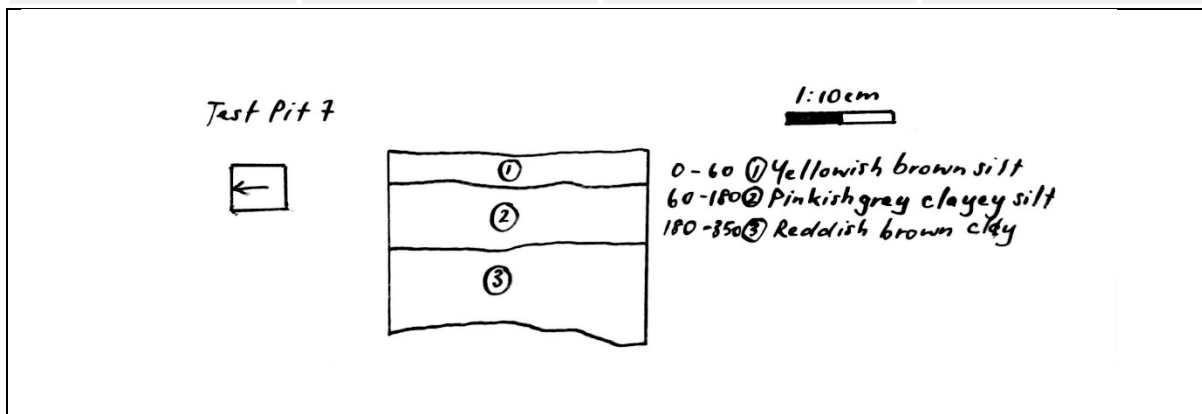


Plate 13: Section of Area 1, Test Pit 7



Plate 14: Photograph of Area 1, Test Pit 7

## Transect 2 Test Pit 8

Spit	Depth	Unit description	Finds
1	0-13cm	<b>Sediment Description</b> Friable dark reddish brown fine silt (~4cm thickness) overlaying firm weak red clayey silt. Grass roots included within. Munsell: 2.5YR 4/2 pH: 6; 2.5YR 3/4 pH:7	None
2	13-20cm	<b>Sediment Description</b> Firm weak red clayey silt overlying dark reddish brown compact clay. Occasional tree root and moderate fine roots. Munsell: 2.5YR 3/4 pH: 7	None

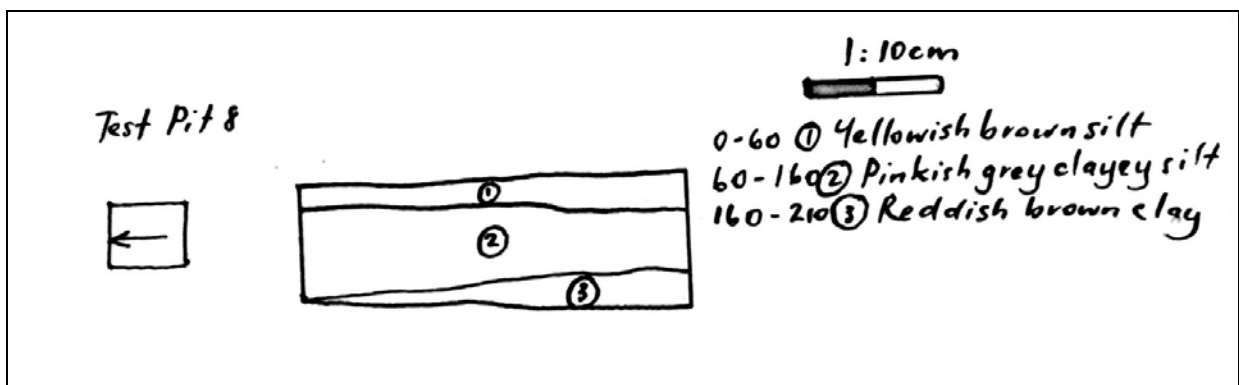


Plate 15: Section of Area 1, Test Pit 8



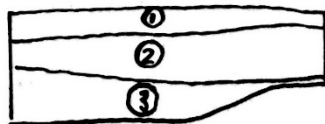
Plate 16: Photograph of Area 1, Test Pit 8



## Transect 2 Test Pit 9

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact reddish black clayey silt. Red compact clay visible in NW corner. Frequent roots and insect burrows present throughout.  Munsell: 2.5YR 2.5/1 pH: 5.5; 2.5 YR 4/2 weak red	None
2	10-15cm	<b>Sediment Description</b> Compact weak red clayey silt with diffuse and undulating lower horizon to red compact red clay.  Munsell: 2.5YR 4/6 pH: 6	None

Test Pit 9



1:10cm

0-40 ① Yellowish brown silt  
 40-90 ② Pinkish grey clayey silt  
 90-180 ③ Reddish brown clay

Plate 17: Section of Area 1, Test Pit 9



Plate 18: Photograph of Area 1, Test Pit 9 - Northern Section

## Transect 2 Test Pit 10

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact dark brown clayey silt. Frequent roots and insect burrows present throughout. Munsell: 7.5YR 3/2 pH: 5.5	None
2	10-15cm	<b>Sediment Description</b> Compact reddish brown with clear undulating horizon to red clay. Munsell: 5YR 4/3 pH: 5.5; 2.5YR 4/6 pH: 6	None

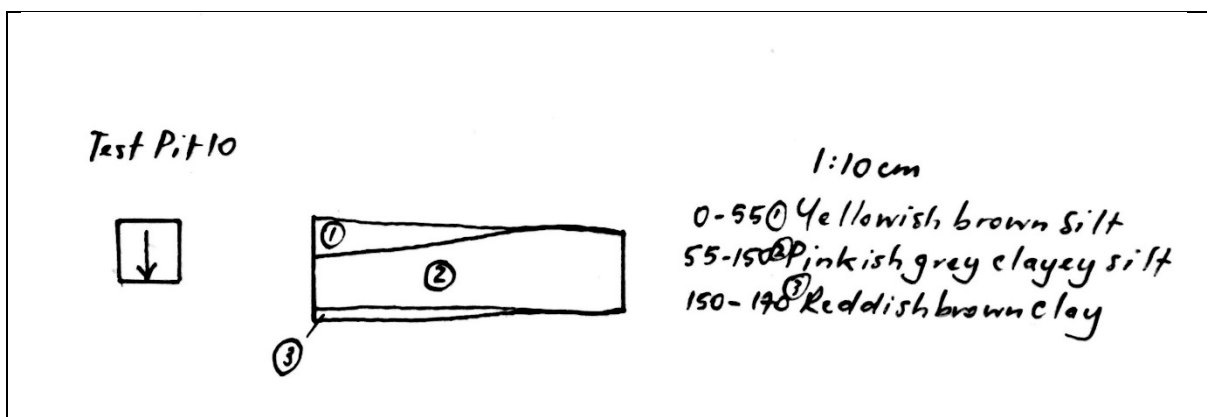


Plate 19: Section of Area 1, Test Pit 10



Plate 20: Photograph of Area 1, Test Pit 10 - Northern Section

### Transect 3 Test Pit 11

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dusky red fine silt over friable weak red clayey silt. Fine plant roots and bioturbation present. Munsell: 2.5YR 3/2 pH: 5.5; 5YR 5/2 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Firm weak red clayey silt over compact red silty clay. Fine roots and bioturbation present. Munsell: 2.5YR 5/2 pH: 6; 2.5YR 4/6 pH: 6	None

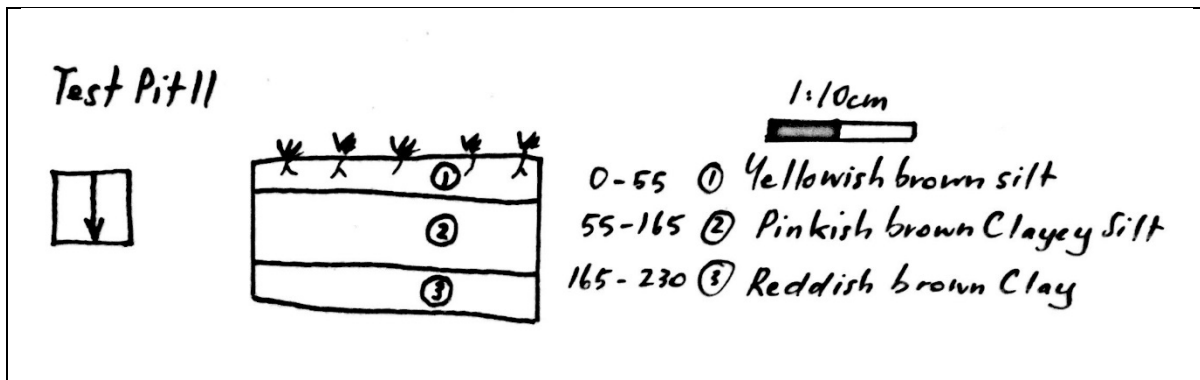


Plate 21: Section of Area 1, Test Pit 11



Plate 22: Photograph of Area 1, Test Pit 11 - Southern Section



## Transect 3 Test Pit 12

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Compact very dusky red clayey silt with clear sloping horizon to red clay. Frequent grass roots contained within. Munsell: 2.5YR 2.5/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm weak red clayey silt over compact red silty clay. Insect burrows and large root channel present in north area of the square. Munsell: 2.5YR 5/2 pH: 5.5; 2.5YR 3/4 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Excavation of root channel in north area of square – reddish brown silty loam with black decomposed organic material within the root channel. Munsell: 5YR 2.5/1 pH: 5.5	None
4	30-40cm	<b>Sediment Description</b> Excavation of root channel base consisting of black silty loam with infrequent charcoal inclusions and small gravels. Munsell: 5YR 2.5/1 pH: 5.5	None

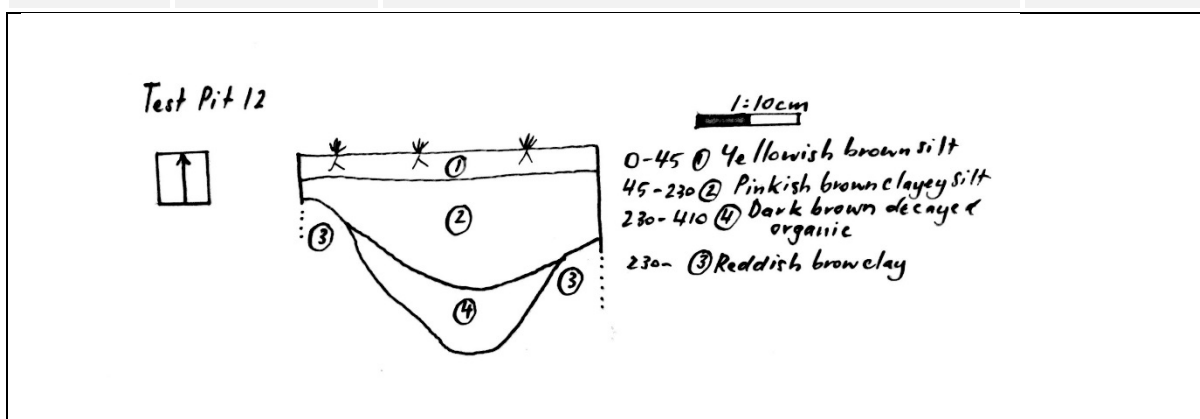


Plate 23: Section of Area 1, Test Pit 12



Plate 24: Photograph of Area 1, Test Pit 12

### Transect 3 Test Pit 13

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose very dusky red fine. Fine plant roots and bioturbation present. Munsell: 2.5YR 2.5/2 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Firm weak red silty clay with irregular channel filled with friable weak red, like the remains of a tree root. Munsell: 2.5YR 4/2 pH: 6; 2.5YR 3/3 pH: 6	None



Plate 25: Photograph of Area 1, Test Pit 13 - Western Section

## Transect 3 Test Pit 15

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose very dusky red fine. Fine plant roots and bioturbation present. Munsell: 2.5YR 2.5/2 pH: 5	None
2	10-20cm	<b>Sediment Description</b> Friable weak red clayey silt over and infilling compact reddish brown silty clay. Root channel infilled with dark clayey silt contained within. Munsell: 2.5YR 4/3 pH: 5.5; 2.5YR 3/4 pH: 6	None

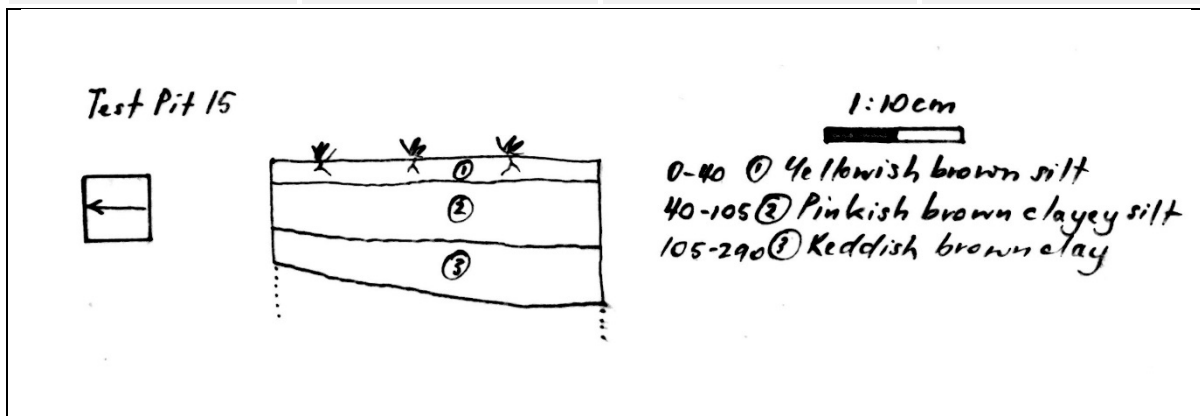


Plate 26: Section of Area 1, Test Pit 15



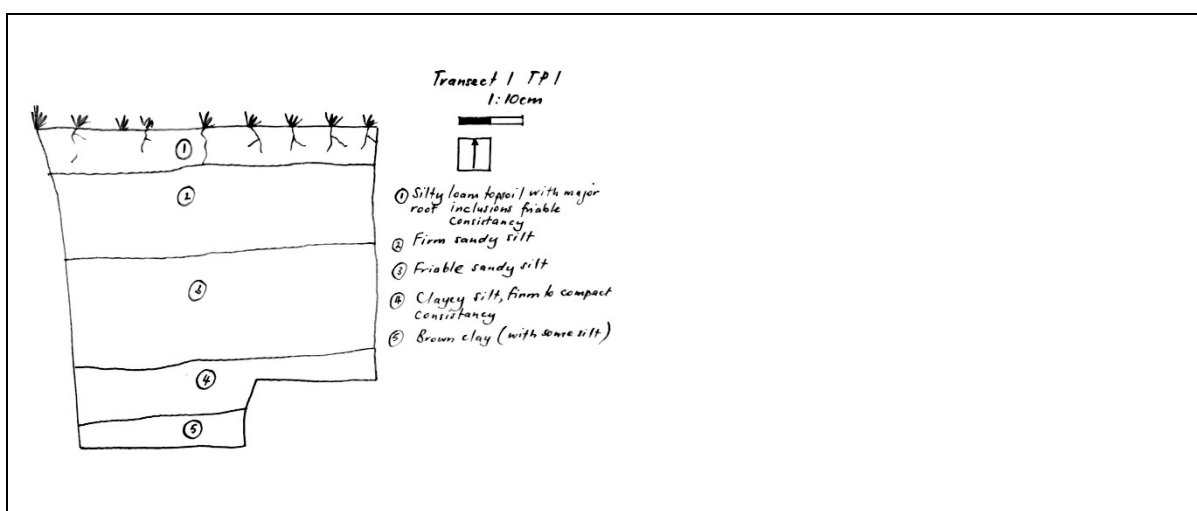
Plate 27: Photograph of Area 1, Test Pit 15

## 4.2 Area 2

### Transect 1 Test Pit 1

Spit	Depth	Unit description	Finds
1	0-5cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
2	5-10cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
3	10-15cm	<b>Sediment Description</b> Moderately soft very dusky loam with fine grained silt present. Loose consistency with grass and root inclusions, insect burrows and small river pebbles <1%. Munsell: 2.5YR 2.5/2 pH: 6	None
4	15-20cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose changing to friable with depth consistency and grass and root inclusions, and insect burrows. Munsell: 5YR 2.5/2 pH: 5.5	None
5	20-25cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Friable consistency and grass and root inclusions, and small pebbles <5mm. Munsell: 5YR 2.5/2 pH: 5.5	None
6	25-30cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Friable consistency and grass and root inclusions, and insect burrows. Munsell: 5YR 2.5/2 pH: 6.5	None
7	30-47cm	<b>Sediment Description</b> Change in consistency from friable to loose with same dark reddish brown silty loam. No inclusions. Munsell: 5YR 2.5/2 pH: 7	None
8	47-50cm	<b>Sediment Description</b> Dark reddish brown sandy silt with charcoal flecking visible in base of spit. Friable to firm consistency, changing to looser, loamier silt alluvium towards 50cm. Small rootlets throughout. Munsell: 5YR 2.5/2 pH: 7.5	None
9	50-60cm	<b>Sediment Description</b> Decrease in compaction, same loamy silt as above. Small rootlets throughout. Munsell: 5YR 2.5/2 pH: 7.5	None

10	60-70cm	<b>Sediment Description</b> Change from loose loamy silt to clayey silt, increase in compaction towards base of spit. Munsell: 5YR 2.5/2 pH: 7.5	None
11	70-80cm	<b>Sediment Description</b> Firm to compact dark reddish brown clayey silt with fine grains. Rootlets throughout. Munsell: 5YR 3/3 pH: 8	None
12	80-90cm	<b>Sediment Description</b> Firm to compact dark reddish brown clayey silt with fine grains. Rootlets throughout. Munsell: 5YR 2.5/2 pH: 7.5	None
13	90-100cm	<b>Sediment Description</b> Firm to compact dark reddish brown clayey silt with fine grains. Rootlets throughout. Munsell: 5YR 2.5/2 pH: 7.5	None



**Plate 28: Section of Area 2, Test Pit 1**



**Plate 29: Photograph of Area 2, Test Pit 1 - Northern Section**

## Transect 1 Test Pit 2

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency increasing slightly with depth and containing grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
3	20-30cm	<b>Sediment Description</b> Moderately soft very dusky loam with fine grained silt present. Loose consistency with grass and root inclusions, insect burrows and small river pebbles <1%. Munsell: 2.5YR 2.5/2 pH: 6	None
4	30-34cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose changing to friable with depth consistency and grass and root inclusions, and insect burrows. Munsell: 5YR 2.5/2 pH: 5.5	None



Plate 30: Photograph of Area 2, Test Pit 2 - Western Section



### Transect 1 Test Pit 3

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None

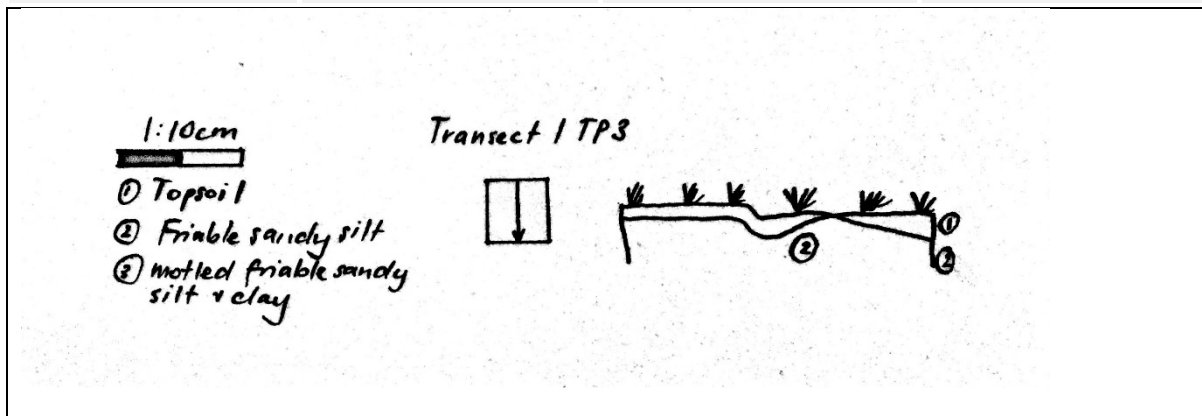


Plate 31: Section of Area 2, Test Pit 3



Plate 32: Photograph of Area 2, Test Pit 3

## Transect 2 Test Pit 9

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency increasing slightly with depth and containing grass and root inclusions. Munsell: 5YR 2.5/2 pH: 5.5	None
3	20-30cm	<b>Sediment Description</b> Moderately soft very dusky loam with fine grained silt present. Loose consistency with grass and root inclusions, insect burrows and small river pebbles <1%. Munsell: 2.5YR 2.5/2 pH: 6	None
4	30-40cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose changing to friable with depth consistency and grass and root inclusions, and insect burrows. Munsell: 5YR 2.5/2 pH: 5.5	None

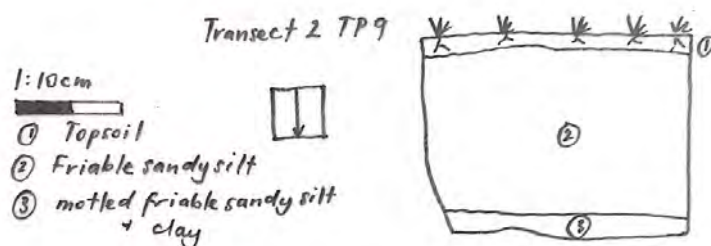


Plate 33: Section of Area 2, Test Pit 9



Plate 34: Photograph of Area 2, Test Pit 9



## Transect 2 Test Pit 10

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency with grass and root inclusions. Evidence of ploughlines. Munsell: 5YR 2.5/2 pH: 5.5	None
2	10-20cm	<b>Sediment Description</b> Moderately soft dark reddish brown loam with fine grained silt present. Loose consistency increasing slightly with depth and containing grass and root inclusions. Evidence of ploughing. Munsell: 5YR 2.5/2 pH: 5.5	None
3	20-30cm	<b>Sediment Description</b> Very dusky loam with fine grained silt clay present. Loose to friable consistency with grass and root inclusions, insect burrows and small river pebbles <1%. Munsell: 2.5YR 2.5/2 pH: 6	None
4	30-40cm	<b>Sediment Description</b> Dark reddish brown loam with fine grained silt present. Friable changing to firm with depth consistency and grass and root inclusions, and insect burrows. Munsell: 5YR 2.5/2 pH: 5.5	None
5	40-50cm	<b>Sediment Description</b> Dark reddish brown loam with fine grained silt present. Firm compaction. Munsell: 5YR 2.5/2 pH: 5.5	None
6	50-60cm	<b>Sediment Description</b> Dark reddish brown firm loam and silt with small rootlets throughout. Firm compaction. Munsell: 5YR 3/3 pH 8	None
7	60-70cm	<b>Sediment Description</b> Firm dark reddish brown loam with higher silt content. Munsell: 5YR 3/3 pH 8	None
8	70-80cm	<b>Sediment Description</b> Firm dark reddish brown loam with higher silt and fluctuating sand content. Munsell: 5YR 2.5/2 pH: 7.5	None
9	80-90cm	<b>Sediment Description</b> Compact dark reddish brown silt with roots and rootlets throughout. Munsell: 5YR 3/3 pH 8	None
10	90-100cm	<b>Sediment Description</b> Compact dark reddish brown silt with roots and rootlets throughout. Munsell: 5YR 3/3 pH 8	None
11	100-110cm	<b>Sediment Description</b> Compact very dusky red silty loam with increasing clay and silt content. Roots and rootlets throughout. Munsell: 2.5YR 2.5/2 pH 7.5	None

12	110-120cm	<b>Sediment Description</b> Compact very dusky red silty loam with increasing clay and silt content. Roots and rootlets throughout. Munsell: 2.5YR 2.5/2 pH 7.5	None
13	120-124cm	<b>Sediment Description</b> Compact very dusky red silty clay. No inclusions. Munsell: 2.5YR 2.5/2 pH 7.5	None

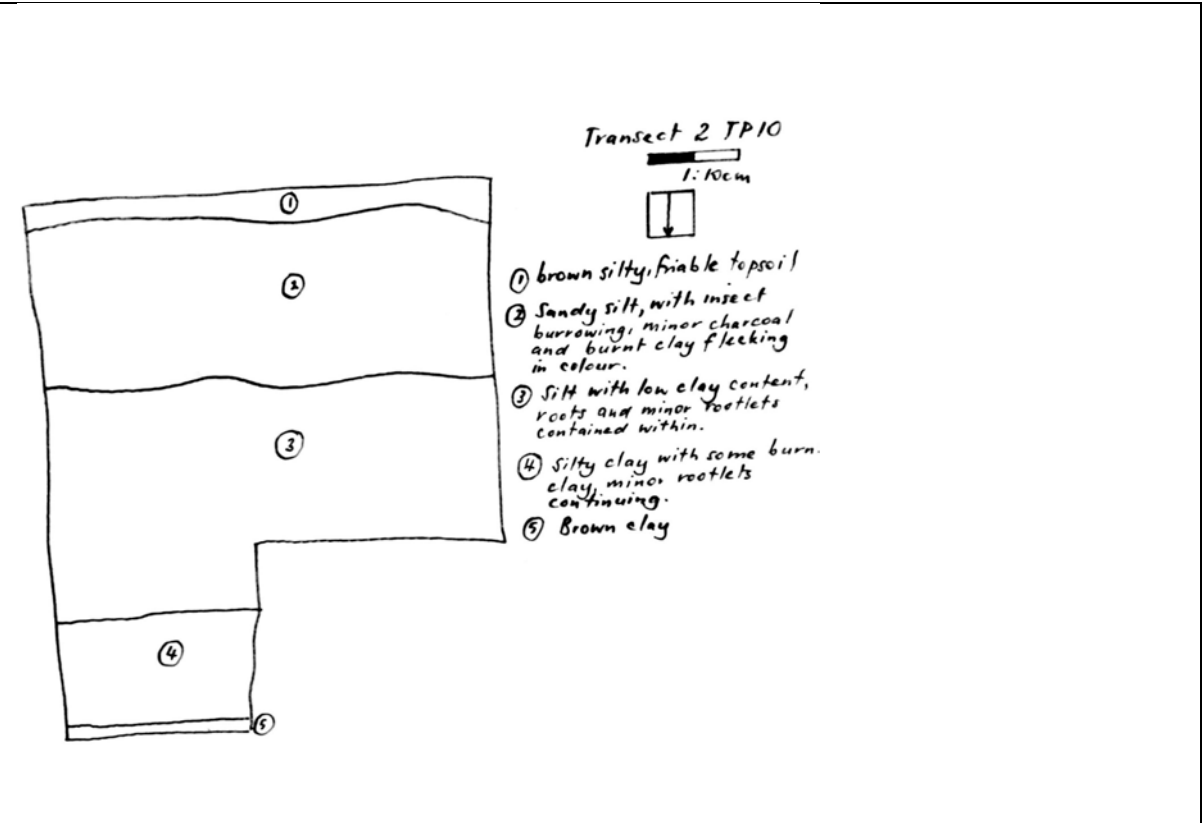


Plate 35: Section of Area 2, Test Pit 10

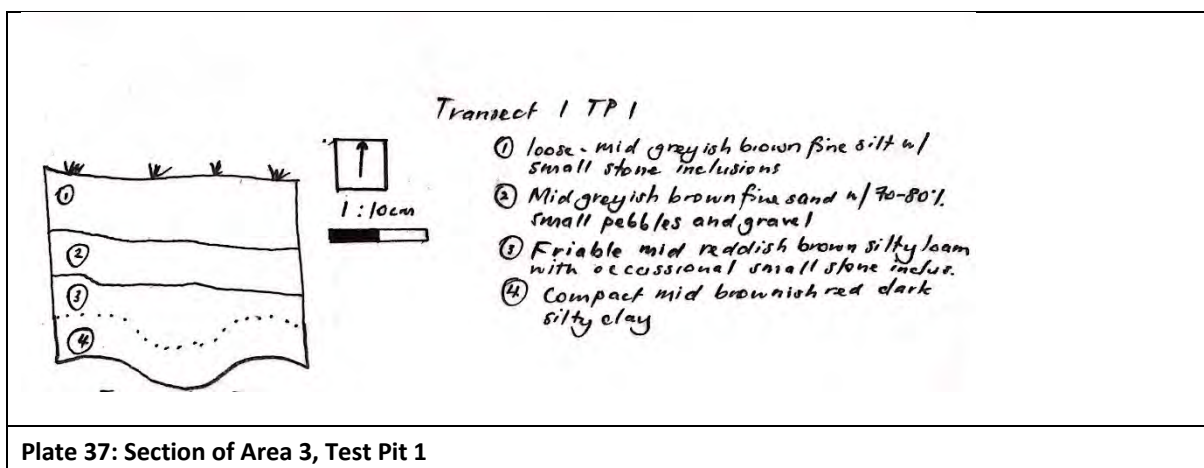


Plate 36: Photograph of Area 2, Test Pit 10 - Eastern Section

### 4.3 Area 3

#### Transect 1 Test Pit 1

Spit	Depth	Unit description	Finds
1	0-5cm	<b>Sediment Description</b> Loose dark brown fine silt with fine grass roots and frequent/ high stone inclusions (<10cm). Munsell: 7.5YR 3/3 pH: 5.5	None
2	5-10cm	<b>Sediment Description</b> Loose dark brown fine silt with fine grass roots and frequent/ high stone inclusions (1-3cm in diameter). Munsell: 7.5YR 3/4 pH: 5.5	Quartzite proximal flake with crushed platform
3	10-15cm	<b>Sediment Description</b> Loose dark brown fine silt with fine grass roots and frequent (80%) stone inclusions (<5cm in diameter). Munsell: 2.5YR 3/4 pH: 6	None
4	15-20cm	<b>Sediment Description</b> Compact layer of dark reddish brown fine silt with ~70% small pebbles and gravel. Fine plant roots included within. Munsell: 5YR 3/4 pH:6	None
5	20-25cm	<b>Sediment Description</b> Friable yellowish red silty loam over compact yellowish red silty clay. Munsell: 5YR 4/6 pH:6.5	None
6	25-30cm	<b>Sediment Description</b> Friable yellowish red silty loam over compact yellowish red silty clay. Munsell: 5YR 4/6 pH: 7	None
7	30-35cm	<b>Sediment Description</b> Friable yellowish red silty loam over compact yellowish red silty clay. Small depression determined to be tree root. Munsell: 5YR 4/6 pH: 7	None





**Plate 38: Photograph of Area 3, Test Pit 1 - Northern Section**

## Transect 1 Test Pit 2

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silty loam with fine grass roots. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots overlaying a thick layer of small rocks (<15cm) and gravel (1-10cm). Munsell: 7.5YR 3/2 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots overlaying firm yellowish red silty clay. Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	None

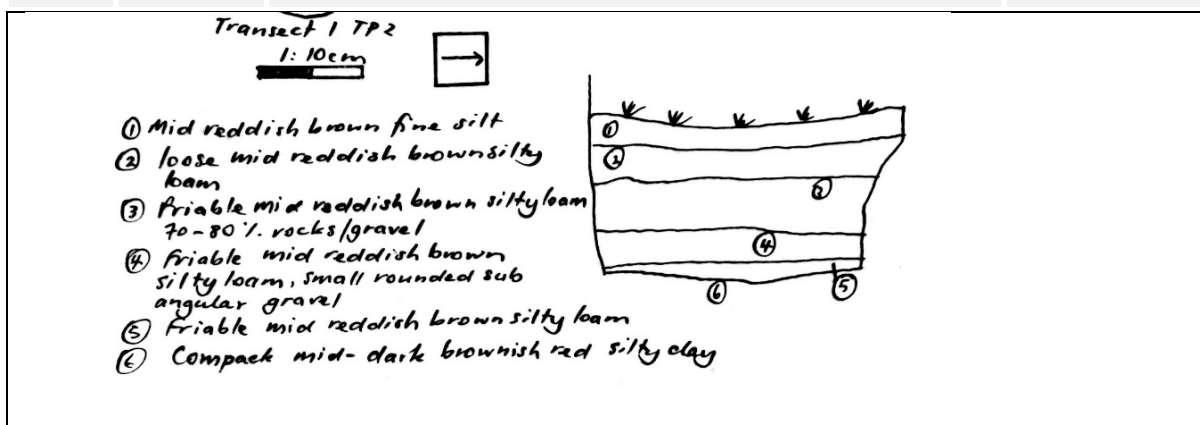


Plate 39: Section of Area 3, Test Pit 2



Plate 40: Photograph of Area 3, Test Pit 2 – Northern Section

## Transect 1 Test Pit 3

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots and 60% gravel (1-10cm). Munsell: 7.5YR 3/2 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Compact dark brown fine silty loam with fine grass roots overlaying compact/cemented yellowish red silty clay with 80%-95% subangular gravels. Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	None

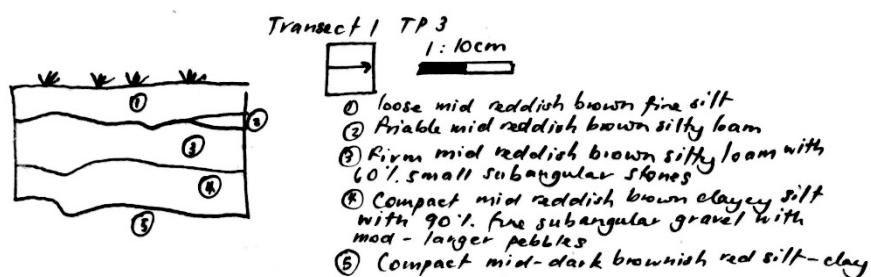


Plate 41: Section of Area 3. Test Pit 3



Plate 42: Photograph of Area 3, Test Pit 3 - Northern Section



## Transect 1 Test Pit 4

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silty loam with fine grass roots. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots and 60-70% small rocks (<15cm). Munsell: 7.5YR 3/2 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots overlaying compact/cemented yellowish red silty clay with 50% subangular gravels. Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	None

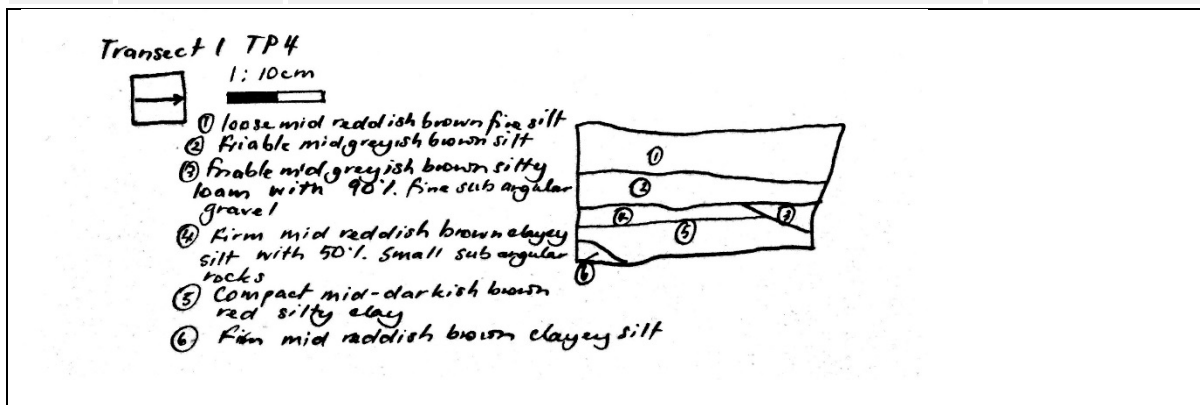


Plate 43: Section of Area 3, Test Pit 4

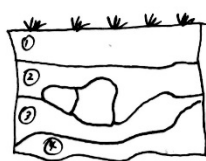
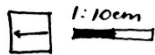


Plate 44: Photograph of Area 3, Test Pit 4 - Northern Section

## Transect 1 Test Pit 5

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silt with fine grass roots over friable dark brown silty loam. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots and 40% subangular gravel with occasional medium stones. Munsell: 7.5YR 3/2 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots compaction increasing with depth. 30% fine gravel included within. Munsell: 7.5YR 3/2 pH: 6;	None
4	30-35cm	<b>Sediment Description</b> Friable dark brown silt filling a root channel cutting into yellowish red compact silty clay. Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	None

Transect 1 TP5



- ① Loose mid reddish brown fine silt
- ② Friable dark greyish brown silty loam with gravel (40-50%)
- ③ Firm mid greyish brown silty loam - clayey silt with moderate small gravel (4cm 30%)
- ④ Compact mid reddish brown clayey silt

Plate 45: Section of Area 3. Test Pit 5



Plate 46: Photograph of Area 3, Test Pit 5 - Northern Section



## Transect 2 Test Pit 7

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silt with fine grass roots over friable dark brown silty loam with 30% fine subangular gravel (<1cm) with small pebbles (<5cm). Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable to firm dark brown fine silty loam with fine grass roots and 40% subangular gravel with occasional medium stones. Munsell: 7.5YR 3/2 pH: 6	None
3	20-30cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots compaction increasing with depth. 90-95% fine gravel, small pebbled and small-medium cobbled included within. Munsell: 7.5YR 3/2 pH: 6	None



**Plate 47: Photograph of Area 3, Test Pit 7 - Northern Section**

## Transect 2 Test Pit 8

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silty loam with fine grass roots over dark brown silty loam . Subangular gravel (<1cm) with small pebbles (<5cm) contained within. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable to firm dark brown fine silty loam with fine grass roots and 40% subangular gravel with occasional medium stones over yellowish red silty clay at bottom of spit. Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	None

Transect 3 TP 8 1:10cm



- ① Loose mid grayish brown fine silt
- ② Friable mid grayish brown silty loam
- ③ Friable mid reddish brown silty loam with 70-80% fine subangular gravel and moderate small angular pebbles. Occasional medium cobbles

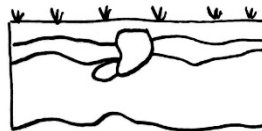


Plate 48: Section of Area 3, Test Pit 8



Plate 49: Photograph of Area 3, Test Pit 8 - Northern Section

## Transect 2 Test Pit 9

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable dark brown silty loam. Subangular gravel (<1cm) with small pebbles (<5cm) contained within. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots and 40% subangular gravel with occasional medium stones. Munsell: 7.5YR 3/2 pH: 6;	None

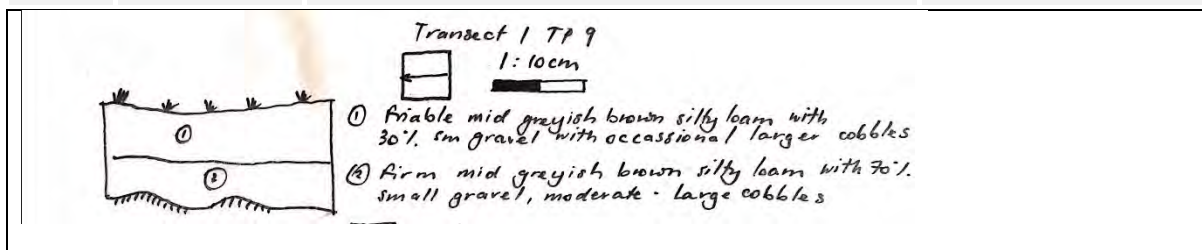


Plate 50: Section of Area 3, Test Pit 9



Plate 51: Photograph of Area 3, Test Pit 9

## Transect 3 Test Pit 12

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown silty loam. Subangular gravel (<1cm) with small pebbles (<5cm) contained within. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots and 70-80% subangular gravel with occasional medium stones. Munsell: 7.5YR 3/2 pH: 6	None

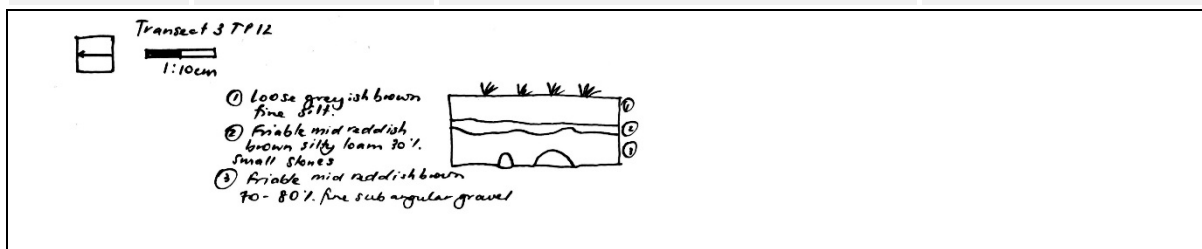


Plate 52: Section of Area 3, Test Pit 12



Plate 53: Photograph of Area 3, Test Pit 12 - Northern Section



## Transect 2 Test Pit 13

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Loose dark brown fine silty loam with fine grass roots over dark brown silty loam. Subangular gravel (<1cm) with small pebbles (<5cm) contained within. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable dark brown fine silty loam with fine grass roots and 70-80% subangular gravel with occasional medium stones. Munsell: 7.5YR 3/2 pH: 6	None
3	20-27cm	<b>Sediment Description</b> Friable dark reddish brown over firm yellowish red clay. 60% fine small subangular gravel collected in depression in the surface of the clay Munsell: 7.5YR 3/2 pH: 6; 5YR 4/6 pH: 7	

*Transect 3 TP13*  
*1:10cm*

① loose mid reddish brown fine silt  
 ② friable mid grayish brown silty loam  
 ③ friable mid gravel 60%. Fine-small subangular gravel  
 ④ firm and red brownish red clay silty clay

Plate 54: Section of Area 3, Test Pit 13



Plate 55: Photograph of Area 3, Test Pit 13 - Northern Section

## Transect 2 Test Pit 14

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable dark brown silty loam. Subangular gravel (<1cm) with small pebbles (<5cm) contained within. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown fine silty loam with fine grass roots and 60% subangular gravel with occasional medium and large stones (<20cm). Munsell: 7.5YR 3/2 pH: 6;	None

Transect 3 TP 14

① Friable mid greyish brown silt loam with 30% small subangular gravel

② Friable mid greyish brown silty loam with 60% small gravel with moderate large cobbles

1:10cm

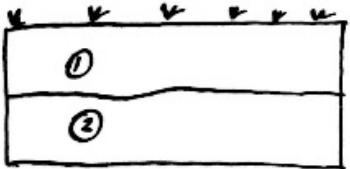


Plate 56: Section of Area 3, Test Pit 14



Plate 57: Photograph of Area 3, Test Pit 14 - Northern Section

## 4.4 Area 4

### Transect 1 Test Pit 1

Spit	Depth	Unit description	Finds
1	0-5cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter) Munsell: 7.5YR 3/2 pH: 6	Q-A: Silcrete backed blade with plane platform; Silcrete proximal flake/indeterminate with faceted platform. QB: Silcrete medial flake Silcrete medial flake
2	5-10cm	<b>Sediment Description</b> Friable very dark grey silty loam with gravel (>5% 2-10mm diameter) and modern glass fragments. Munsell: 7.5YR 3/1, pH:7	QA: Silcrete proximal flake/blade with faceted platform and feather termination. QB: Mudstone proximal flake with flaked platform QC: Silcrete medial flake Mudstone distal flake with plunge termination.
3	10-15cm	<b>Sediment Description</b> Firm very dark grey silty loam with clay fragments from ploughing (20% 5-40mm), gravel inclusions (>5% 2-10mm). Munsell: 7.5YR 3/1 pH:7	QA: Mudstone complete flake with crushed platform and feather termination QD: Silcrete complete flake with flaked platform and feathered termination
4	15-20cm	<b>Sediment Description</b> Firm very dark grey silty loam with clay fragments from ploughing (20% 5-40mm), gravel inclusions (>5% 2-10mm). Munsell: 7.5YR 3/1 pH:7	QA: Quartz medial flake
5	20-25cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth gravel inclusions (>5% 2-10mm). Munsell: 7.5YR 3/1 pH:7	None
6	25-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

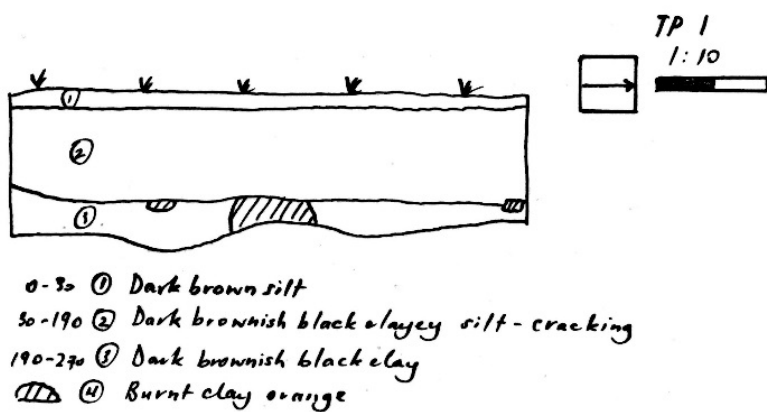


Plate 58: Section of Area 4, Test Pit 1



Plate 59: Photograph of Area 4, Test Pit 1 - Northern Section



## Transect 1 Test Pit 2

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter) Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Friable very dark grey silty loam with gravel (>5% 2-10mm diameter) and modern glass fragments. Munsell: 7.5YR 3/1, pH:7	None
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

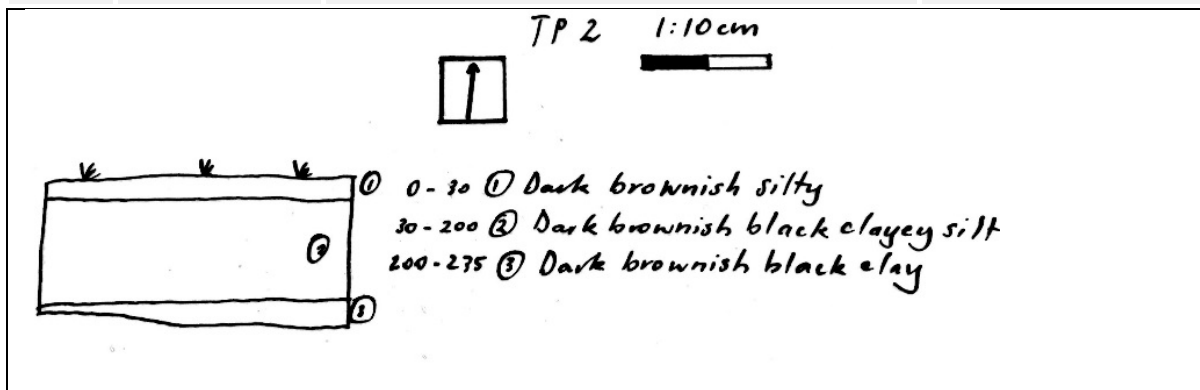


Plate 60: Section of Area 4, Test Pit 2



Plate 61: Photograph of Area 4, Test Pit 2 - Northern Section

## Transect 1 Test Pit 3

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable very dusty red silt topsoil with abundant grass roots overlaying black clayey silt which was firm and dry with a blocky fracture. Minor rootlets contained within. Munsell: 2.5YR 2.5/2 pH: 5.5	Silcrete medial flake
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Munsell: 5YR 2.5/1, pH:6.5	None
3	20-27cm	<b>Sediment Description</b> Firm black clayey silt with undulating lower horizon onto yellowish red compact clay. Munsell: 7.5YR 2.5/1 pH:7; 5YR 5/8 pH:7.5	None

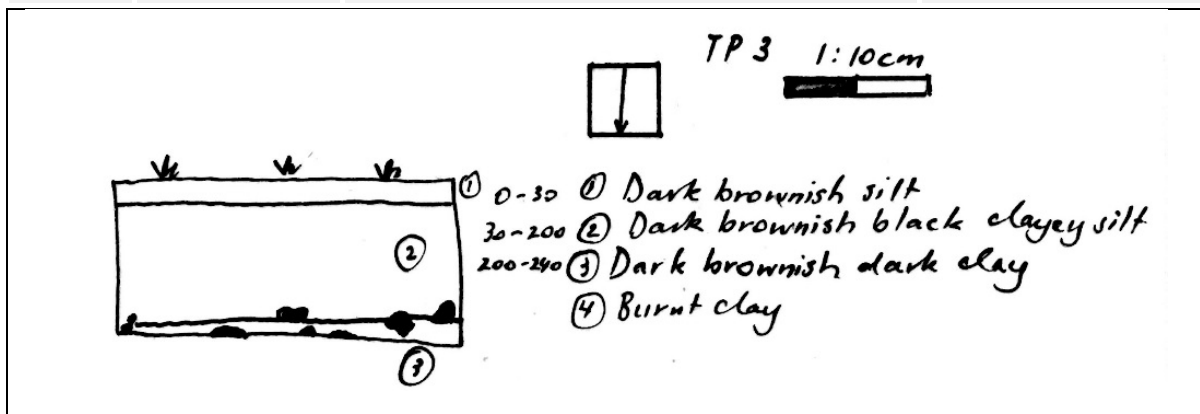


Plate 62: Section of Area 4, Test Pit 3



Plate 63: Photograph of Area 4, Test Pit 3 - Northern Section

## Transect 1 Test Pit 4

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and ant burrows. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Munsell: 5YR 2.5/1, pH:6.5	None

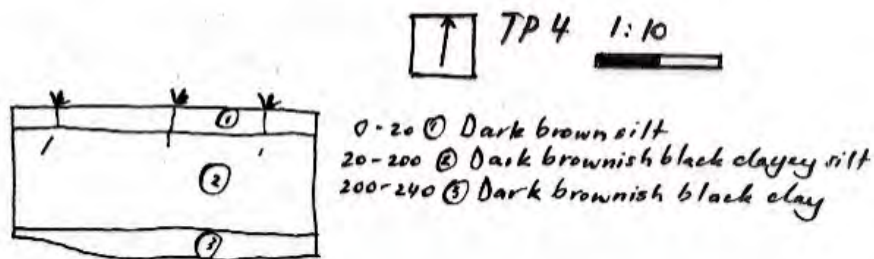


Plate 64: Section of Area 4, Test Pit 4



Plate 65: Photograph of Area 4, Test Pit 4 - Northern Section

## Transect 1 Test Pit 5

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and ant burrows. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Munsell: 5YR 2.5/1, pH:6.5	None
3	20-25cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

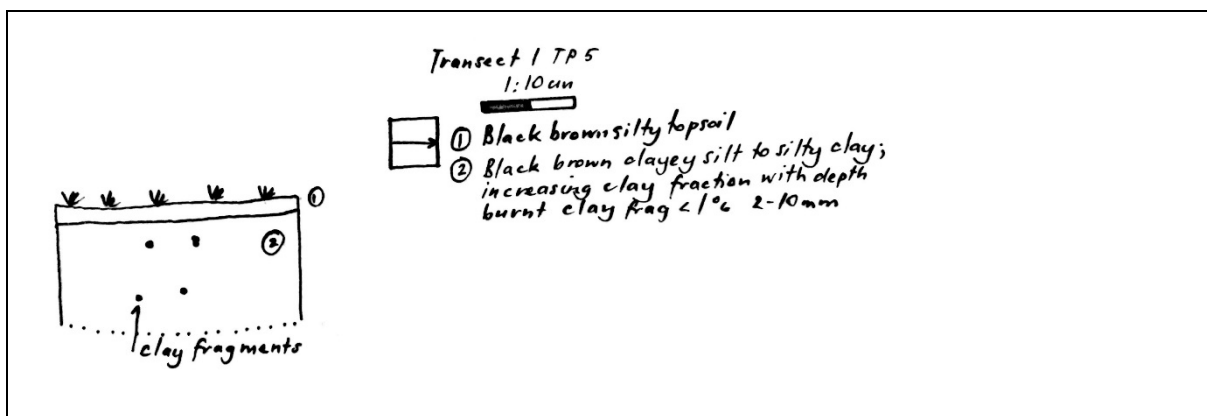


Plate 66: Section of Area 4, Test Pit 5



Plate 67: Photograph of Area 4, Test Pit 5

## Transect 2 Test Pit 6

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Coke, slag, charcoal and small pebbles included in abundance. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm reddish black silty clay with high coal slag, charcoal and gravel inclusions. Munsell: 2.5YR 2.5/1, pH:5.5	None

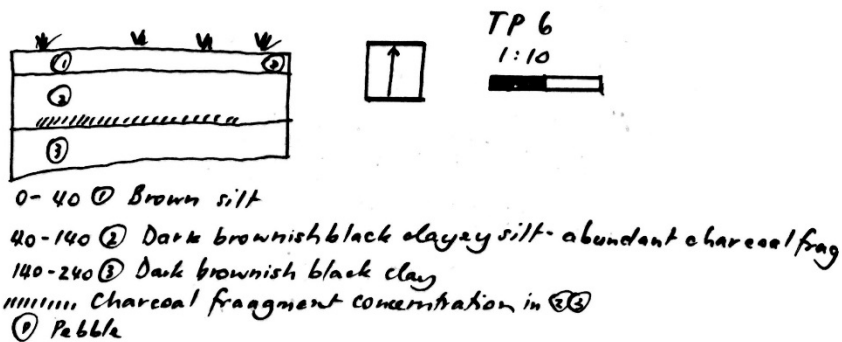


Plate 68: Section of Area 4, Test Pit 6



Plate 69: Photograph of Area 4, Test Pit 6



## Transect 1 Test Pit 7

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and small clay nodules. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Compaction increasing with depth. Munsell: 5YR 2.5/1, pH:6.5	None
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

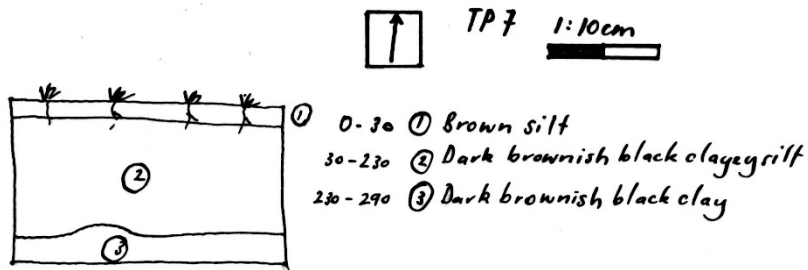


Plate 70: Section of Area 4, Test Pit 7



Plate 71: Photograph of Area 4, Test Pit 7

## Transect 1 Test Pit 8

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and small clay nodules. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Compaction increasing with depth. Munsell: 5YR 2.5/1, pH:6.5	None
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

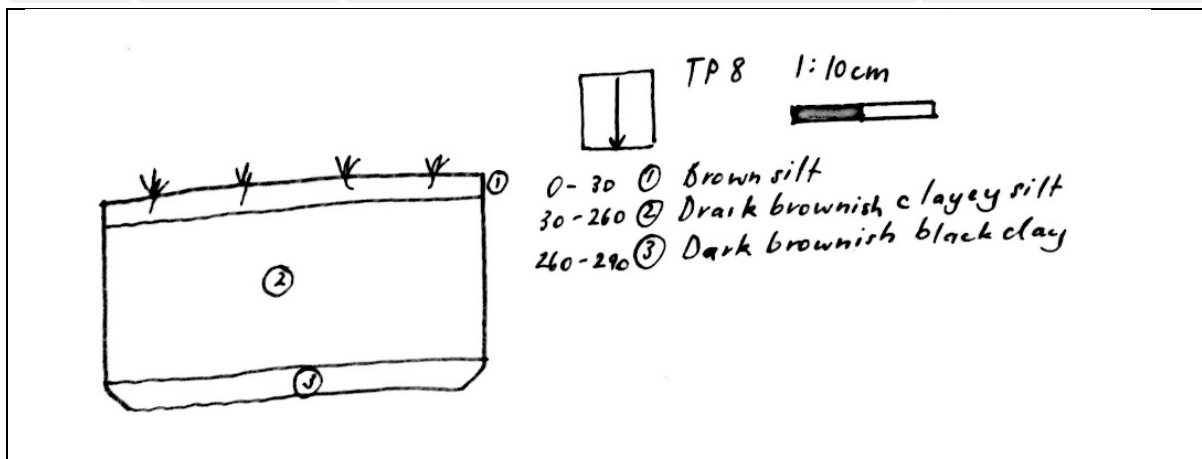


Plate 72: Section of Area 4, Test Pit 8



Plate 73: Photograph of Area 4, Test Pit 8 - Northern Section

## Transect 3 Test Pit 9

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable black silty loam topsoil with gravel (>5% 2-10mm diameter). Overlaying dusky red clayey silt. Munsell: 5YR 2.5/1 pH: 6; 2.5YR 3/2 pH:5.5	Silcrete distal flake with feather termination
2	10-20cm	<b>Sediment Description</b> Firm dusky red clayey silt with blocky fracture Munsell: 5YR 2.5/1, pH:6.5	Mudstone tool with scalar retouch Slate distal flake with hinge termination Silcrete complete flake with crushed platform and feather termination
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:6	Silcrete medial flake

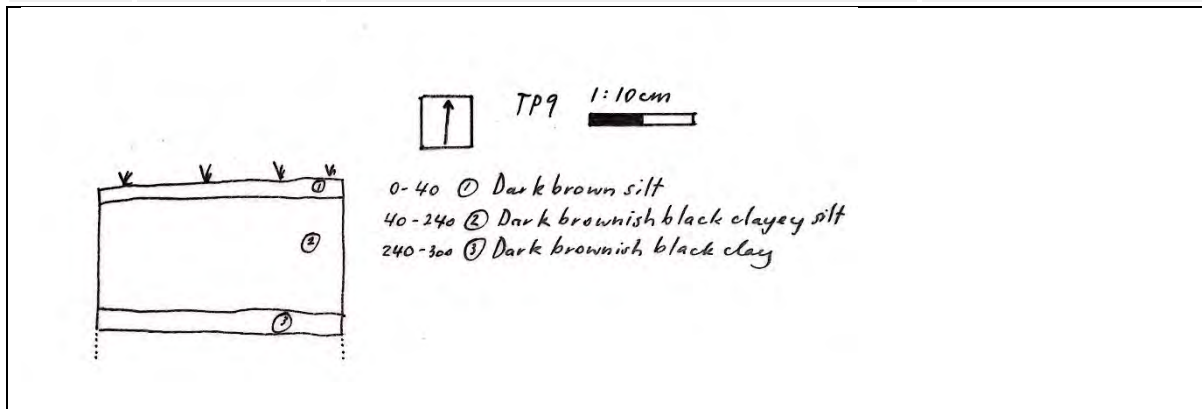


Plate 74: Section of Area 4, Test Pit 9



Plate 75: Photograph of Area 4, Test Pit 9



## Transect 3 Test Pit 10

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable black silty loam topsoil with gravel (>5% 2-10mm diameter). Overlaying dusky red clayey silt. Munsell: 5YR 2.5/1 pH: 6; 2.5YR 3/2 pH:5.5	None
2	10-20cm	<b>Sediment Description</b> Firm dark brown clayey silt with blocky fracture Munsell: 2.5YR 3/2, pH:6	None
3	20-30cm	<b>Sediment Description</b> Firm black loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 2.5YR 3/2, pH:6; 5YR 2.5/1 pH:7.5	None

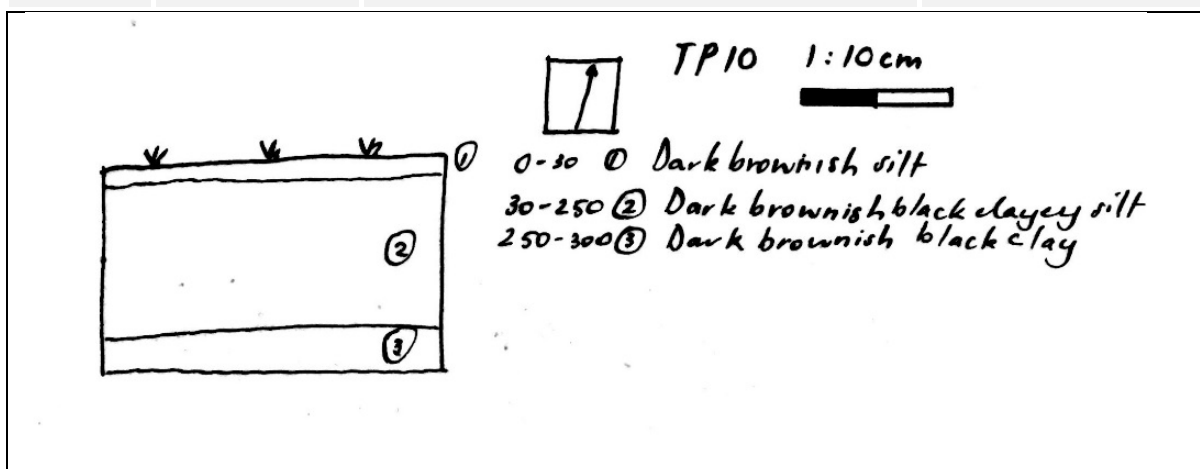


Plate 76: Section of Area 4, Test Pit 10



Plate 77: Photograph of Area 4, Test Pit 10 - Northern Section

## Transect 2 Test Pit 11

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and small clay nodules. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Compaction increasing with depth. Munsell: 5YR 2.5/1, pH:6.5	None
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None

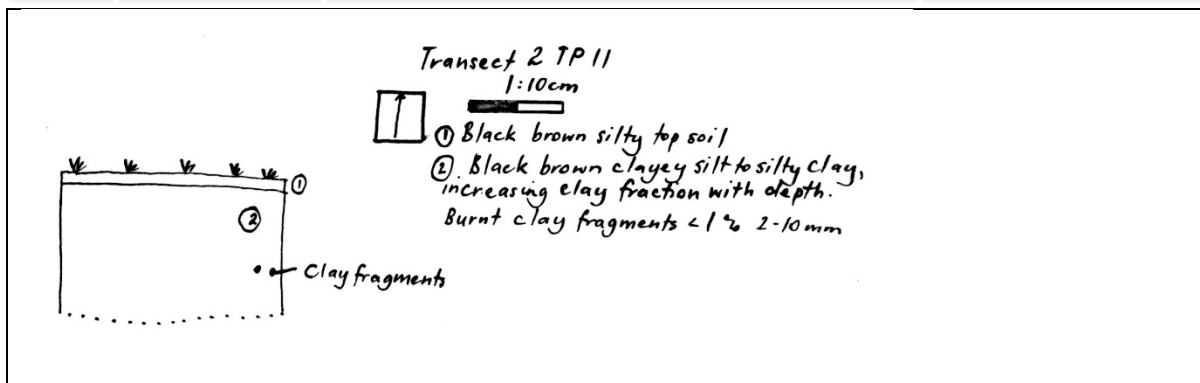


Plate 78: Section of Area 4, Test Pit 11



Plate 79: Photograph of Area 4, Test Pit 11

## Transect 2 Test Pit 12

Spit	Depth	Unit description	Finds
1	0-10cm	<b>Sediment Description</b> Friable Dark brown silty loam topsoil with gravel (>5% 2-10mm diameter). Grass roots, gravels and small clay nodules. Munsell: 7.5YR 3/2 pH: 6	None
2	10-20cm	<b>Sediment Description</b> Firm black silty clay with same firm fry blocky fracture, minor rootlets and burnt clay fragments contained within. Compaction increasing with depth. Evidence of ploughing Munsell: 5YR 2.5/1, pH:6.5	None
3	20-30cm	<b>Sediment Description</b> Firm very dark grey loam increasing compaction with depth onto a diffuse horizon of black clay. Munsell: 7.5YR 3/1 pH:7; 7.5YR 2.5/1 pH:7.5	None



**Plate 80: Photograph of Area 4, Test Pit 12**

## Appendix 5 - Artefact Catalogue – Subsurface Deposits

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AHIMS ID	ID	Artefact Material	Artefact Type	Platform Surface	Termination	Length (mm)	Width (mm)	Thickness (mm)	Comment
33-2-0029	Area 3 TR 1 TP 1 Spit 2	Quartzite	Proximal flake	Crushed	N/A	16	N/A	N/A	76-99% cortex-cobble
33-2-0028	Area 4 TR 1 TP1 Q-A Spit 1	Silcrete	Complete tool/Backed blade	Plane	N/A	18	11	4	Backed blade
33-2-0028	Area 4 TR 1 TP1 Q-A Spit 1	Silcrete	Proximal flake/indeterminate	Faceted	N/A	10	-	-	N/A
33-2-0028	Area 4 TR 1 TP1 Q-A Spit 2	Silcrete	Proximal flake/blade	Faceted	Feather	20	-	-	N/A
33-2-0028	Area 4 TR 1 TP1 Q-A Spit 3	Mudstone	Complete flake	Crushed	Feather	9	11	2	N/A
33-2-0028	Area 4 TR 1 TP1 Q-A Spit 4	Quartz	Medial flake	N/A	N/A	8	N/A	N/A	N/A

AHIMS ID	ID	Artefact Material	Artefact Type	Platform Surface	Termination	Length (mm)	Width (mm)	Thickness (mm)	Comment
33-2-0028	Area 4 TR 1 TP1 Q-B Spit 1	Silcrete	Medial flake	N/A	N/A	15	N/A	N/A	N/A
33-2-0028	Area 4 TR 1 TP1 Q-B Spit 1	Silcrete	Medial flake	N/A	N/A	10	N/A	N/A	N/A
33-2-0028	Area 4 TR 1 TP1 Q-B Spit 2	Mudstone	Proximal flake	Flaked	N/A	19	N/A	N/A	
33-2-0028	Area 4 TR 1 TP1 Q-C Spit 2	Silcrete	Medial flake	N/A	N/A	18	N/A	N/A	Possible distal (?)
33-2-0028	Area 4 TR 1 TP1 Q-C Spit 2	Mudstone	Distal flake	N/A	Plunge	19	N/A	N/A	N/A
33-2-0028	Area 4 TR 1 TP1 Q-D Spit 3	Silcrete	Complete flake	Flaked	Feather	17	8	2	N/A

AHIMS ID	ID	Artefact Material	Artefact Type	Platform Surface	Termination	Length (mm)	Width (mm)	Thickness (mm)	Comment
33-2-0028	Area 4 TR 1 TP3 Spit 1	Silcrete	Medial flake	N/A	N/A	17	N/A	N/A	N/A
33-2-0028	Area 4 TR 3 TP 9 Spit 1	Silcrete	Distal flake	N/A	Feather	26	N/A	N/A	N/A
33-2-0028	Area 4 TR 3 TP 9 Spit 2	Mudstone	Broken tool with scalar retouch	N/A	N/A	9	8	3	Five concave retouch
33-2-0028	Area 4 TR 3 TP 9 Spit 3	Silcrete	Medial flake	N/A	N/A	10	N/A	N/A	N/A
33-2-0028	Area 4 TR 3 TP 9 Spit 2	Slate	Distal flake	N/A	Hinge	27	N/A	N/A	May not be Aboriginal artefact
33-2-0028	Area 4 TR 3 TP 9 Spit 2	Silcrete	Complete flake	Crushed	Feather	8	6	1	N/A

Note: Certain information and characteristics can only be measured or assessed on complete artefacts (e.g. width and thickness are not measured on median, distal or proximal flakes, these dimensions can only be recorded on complete flakes). The recording of attributes and features are in line with the industry standards.

## Appendix 6 – AHIMS Search Results

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Niche Environment and Heritage

PO Box 3104

Umina Beach New South Wales 2257

Attention: Clare Leever

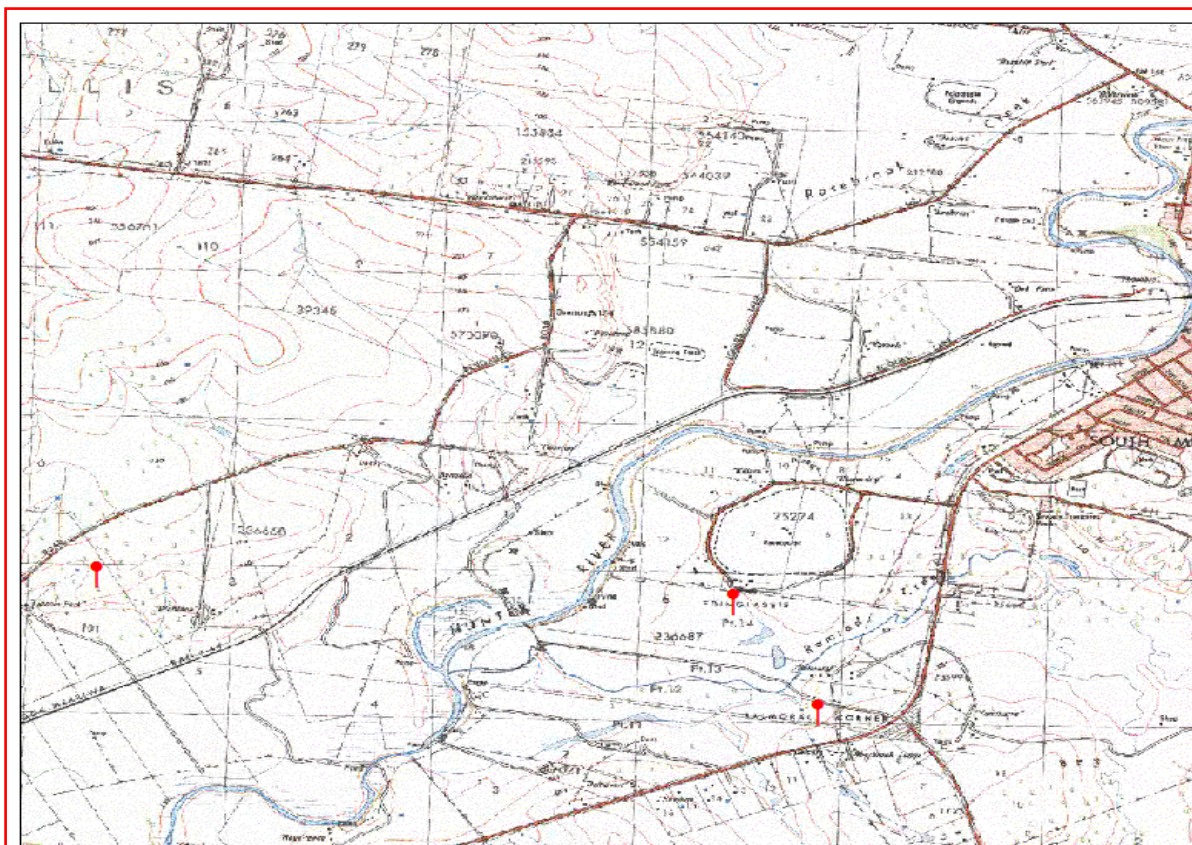
Email: cleever@niche-eh.com

Dear Sir or Madam:

Date: 22 September 2017

**AHIMS Web Service search for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters, conducted by Clare Leever on 22 September 2017.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

67	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(http://www.nsw.gov.au/gazette\)](http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date .Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 3815-3

Client Service ID : 303300

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
37-2-0570	B1 ;	AGD	56	296405	6428189	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765,102567
	<u>Contact</u>									
37-2-0571	B2 ;	AGD	56	297105	6427689	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0572	B3 ;	AGD	56	296605	6427789	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0573	B4 ;	AGD	56	296005	6427839	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0574	B5 ;	AGD	56	295955	6427139	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0575	B6 ;	AGD	56	296245	6426889	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0576	B7 ;	AGD	56	296845	6426709	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0577	B8 ;	AGD	56	294985	6426069	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0601	B32 ;	AGD	56	295605	6428589	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0603	B34 ;	AGD	56	294955	6428739	Open site	Destroyed	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0605	B36;	AGD	56	295010	6425200	Open site	Valid	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0606	B37;	AGD	56	295400	6425000	Open site	Valid	Artefact : -	Open Camp Site	2687,100681,1 00765
	<u>Contact</u>									
37-2-0607	B38;	AGD	56	298250	6424950	Open site	Valid	Artefact : -	Open Camp Site	2687,100681
	<u>Contact</u>									
37-2-0608	B39;	AGD	56	298500	6425000	Open site	Valid	Artefact : -	Open Camp Site	2687,100681

Report generated by AHIMS Web Service on 22/09/2017 for Clare Leever for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters. Additional Info : Heritage Report. Number of Aboriginal sites and Aboriginal objects found is 67

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 3815-3

Client Service ID : 303300

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Bobbie Oakley					<a href="#">Permits</a>	828	
37-2-1466	C20;	AGD	56	296480	6428930	Open site	Valid	Artefact : -	Open Camp Site	4105
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Barry French,Ms,Jill Ruig					<a href="#">Permits</a>	4005	
37-2-0129	Yammanie;Ramrod Creek;2;	AGD	56	300000	6425500	Open site	Valid	Artefact : -	Open Camp Site	316
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Len Dyll					<a href="#">Permits</a>		
37-2-1920	AD4	AGD	56	297800	6424800	Open site	Valid	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Peter Kuskie					<a href="#">Permits</a>		
37-2-2870	MTP-66	GDA	56	296168	6429242	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3033	MTP-452	GDA	56	298338	6429178	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3034	MTP-453	GDA	56	297686	6429274	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3035	MTP-454	GDA	56	298230	6429116	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3036	MTP-455	GDA	56	298208	6429075	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3037	MTP-456	GDA	56	297744	6429040	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3038	MTP-458	GDA	56	297796	6428926	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3039	MTP-459	GDA	56	297809	6428939	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3040	MTP-460	GDA	56	297725	6428964	Open site	Destroyed	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>	4005	
37-2-3466	MTP-888	GDA	56	296754	6429043	Open site	Valid	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>		
37-2-3467	MTP-889	GDA	56	296710	6429072	Open site	Valid	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>		
37-2-3468	MTP-890	GDA	56	296691	6429109	Open site	Valid	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>		
37-2-3469	MTP-891	GDA	56	296663	6429106	Open site	Valid	Artefact : -		
	<a href="#">Contact</a>	<a href="#">Recorders</a>	Mr.Lennard Roberts					<a href="#">Permits</a>		
37-2-3470	MTP-892	GDA	56	296670	6429067	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 22/09/2017 for Clare Leever for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters. Additional Info : Heritage Report. Number of Aboriginal sites and Aboriginal objects found is 67

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 3815-3

Client Service ID : 303300

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3471	MTP-893	GDA	56	296637	6429073	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3472	MTP-894	GDA	56	296620	6429121	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3473	MTP-895	GDA	56	296596	6429115	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3474	MTP-896	GDA	56	296548	6429089	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3284	MTP-705	GDA	56	295732	6429159	Open site	Destroyed	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3285	MTP-706	GDA	56	295571	6429155	Open site	Destroyed	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3286	MTP-707	GDA	56	295549	6429171	Open site	Destroyed	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3475	MTP-897	GDA	56	296491	6429086	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3476	MTP-898	GDA	56	296469	6428986	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3477	MTP-899	GDA	56	296552	6428945	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3478	MTP-900	GDA	56	296615	6428982	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3479	MTP-901	GDA	56	296764	6428926	Open site	Not a Site	Modified Tree (Carved or Scarred) : -		103689,103690
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3480	MTP-902	GDA	56	296709	6429128	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3481	MTP-903	GDA	56	296890	6429268	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3484	MTP-906	GDA	56	297447	6429247	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		
37-2-3485	MTP-907	GDA	56	297573	6429096	Open site	Valid	Artefact : -	4005	
	<a href="#">Contact</a>	<a href="#">Recorders</a>						<a href="#">Permits</a>		

Report generated by AHIMS Web Service on 22/09/2017 for Clare Leever for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters. Additional Info : Heritage Report. Number of Aboriginal sites and Aboriginal objects found is 67

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 3815-3

Client Service ID : 303300

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
37-2-3486	MTP-908	GDA	56	297471	6429115	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3487	MTP-909	GDA	56	297430	6429014	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3488	MTP-910	GDA	56	297432	6429028	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3489	MTP-911	GDA	56	297488	6429030	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3490	MTP-912	GDA	56	297351	6428946	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3288	MTP-709	GDA	56	295032	6429145	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Geordie Oakes,Mr.Lennard Roberts							
							<u>Permits</u>			
37-2-3491	MTP-913	GDA	56	297394	6428808	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3492	MTP-914	GDA	56	297358	6428682	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3493	MTP-915	GDA	56	297742	6428751	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3494	MTP-916	GDA	56	297728	6428825	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2850	MTP-46	GDA	56	297418	6429033	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2851	MTP-47	GDA	56	297428	6429018	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2852	MTP-48	GDA	56	297291	6429202	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2854	MTP-50	GDA	56	297272	6429211	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2855	MTP-51	GDA	56	296942	6428777	Open site	Not a Site	Modified Tree (Carved or Scarred) :		103653
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-3370	MTP-791	GDA	56	296690	6428750	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Lennard Roberts							
							<u>Permits</u>	4005		
37-2-2853	MTP-49	GDA	56	297235	6429248	Open site	Destroyed	Artefact : -		

Report generated by AHIMS Web Service on 22/09/2017 for Clare Leever for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters. Additional Info : Heritage Report. Number of Aboriginal sites and Aboriginal objects found is 67

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 3815-3

Client Service ID : 303300

SitID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<a href="#">Contact</a>	<a href="#">Recorders</a>								
37-2-4416	MWB SEW 001	GDA	56	300131	6425577	Open site	Partially Destroyed	Artefact : 1	4005	<a href="#">Permits</a>
	<a href="#">Contact</a>	<a href="#">Recorders</a>								
37-2-4418	MWB	GDA	56	300131	6425577	Open site	Deleted	Artefact : 1	3612	<a href="#">Permits</a>
	<a href="#">Contact</a>	<a href="#">Recorders</a>								
37-2-4574	MWB Pipeline 009	GDA	56	300552	6424951	Open site	Destroyed	Artefact : -		<a href="#">Permits</a>
	<a href="#">Contact</a>	<a href="#">Recorders</a>								
		Mr.Ryan Desic,Mr.Ryan Desic								<a href="#">Permits</a>

Report generated by AHIMS Web Service on 22/09/2017 for Clare Leever for the following area at Lat, Long From : -32.2926, 150.826 - Lat, Long To : -32.2566, 150.8831 with a Buffer of 200 meters. Additional Info : Heritage Report. Number of Aboriginal sites and Aboriginal objects found is 67

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## Appendix 7 – Site Cards for Newly Recorded Sites

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AHIMS site ID:

Date recorded:

## Site Location Information

Site name:

Easting:  Northing:  Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

Zone:  Location method:

## Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name

Organisation:

Address:

Phone:  E-mail:

## Site Context Information

Land Form Pattern:  Land Use:

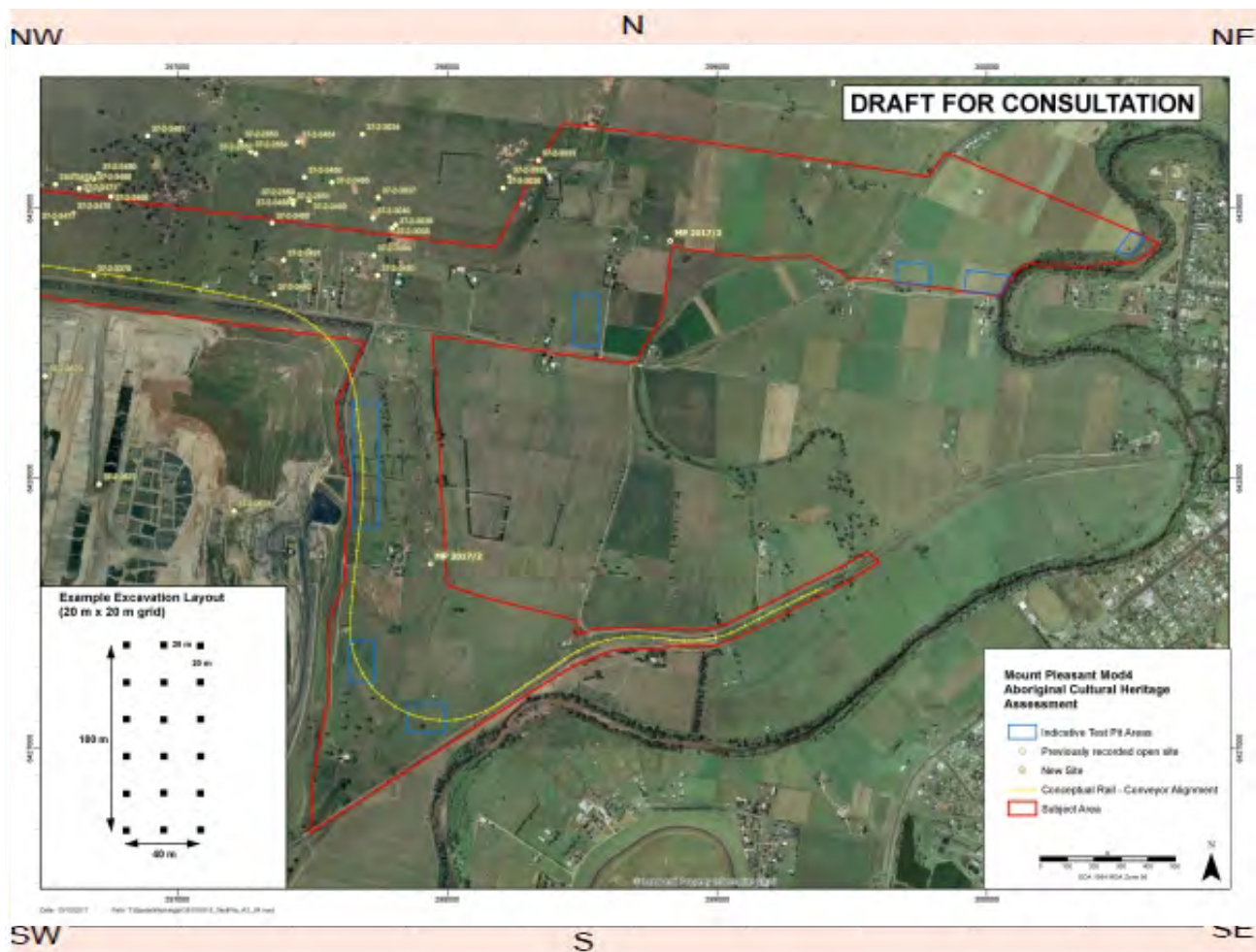
Land Form Unit:  Vegetation:

Distance to Water (m):  Primary Report:

How to get to the site:

Other site information:

## Site location map



## Site contents information

open/closed site:

<b>Site condition:</b>	Disturbed
------------------------	-----------

### Features:

1. Artefact

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
--------------------	---------------------------------	---------------------------------

1

5

5

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
0.5	0.5	1	1
0.5	0.5	1	2
0.5	0.5	1	3
0.5	0.5	1	4
0.5	0.5	1	5
0.5	0.5	1	6
0.5	0.5	1	7
0.5	0.5	1	8
0.5	0.5	1	9
0.5	0.5	1	10
0.5	0.5	1	11
0.5	0.5	1	12
0.5	0.5	1	13
0.5	0.5	1	14
0.5	0.5	1	15
0.5	0.5	1	16
0.5	0.5	1	17
0.5	0.5	1	18
0.5	0.5	1	19
0.5	0.5	1	20
0.5	0.5	1	21
0.5	0.5	1	22
0.5	0.5	1	23
0.5	0.5	1	24
0.5	0.5	1	25
0.5	0.5	1	26
0.5	0.5	1	27
0.5	0.5	1	28
0.5	0.5	1	29
0.5	0.5	1	30
0.5	0.5	1	31
0.5	0.5	1	32
0.5	0.5	1	33
0.5	0.5	1	34
0.5	0.5	1	35
0.5	0.5	1	36
0.5	0.5	1	37
0.5	0.5	1	38
0.5	0.5	1	39
0.5	0.5	1	40
0.5	0.5	1	41
0.5	0.5	1	42
0.5	0.5	1	43
0.5	0.5	1	44
0.5	0.5	1	45
0.5	0.5	1	46
0.5	0.5	1	47
0.5	0.5	1	48
0.5	0.5	1	49
0.5	0.5	1	50
0.5	0.5	1	51
0.5	0.5	1	52
0.5	0.5	1	53
0.5	0.5	1	54
0.5	0.5	1	55
0.5	0.5	1	56
0.5	0.5	1	57
0.5	0.5	1	58
0.5	0.5	1	59
0.5	0.5	1	60
0.5	0.5	1	61
0.5	0.5	1	62
0.5	0.5	1	63
0.5	0.5	1	64
0.5	0.5	1	65
0.5	0.5	1	66
0.5	0.5	1	67
0.5	0.5	1	68
0.5	0.5	1	69
0.5	0.5	1	70
0.5	0.5	1	71
0.5	0.5	1	72
0.5	0.5	1	73
0.5	0.5	1	74
0.5	0.5	1	75
0.5	0.5	1	76
0.5	0.5	1	77
0.5	0.5	1	78
0.5	0.5	1	79
0.5	0.5	1	80
0.5	0.5	1	81
0.5	0.5	1	82
0.5	0.5	1	83
0.5	0.5	1	84
0.5	0.5	1	85
0.5	0.5	1	86
0.5	0.5	1	87
0.5	0.5	1	88
0.5	0.5	1	89
0.5	0.5	1	90
0.5	0.5	1	91
0.5	0.5	1	92
0.5	0.5	1	93
0.5	0.5	1	94
0.5	0.5	1	95
0.5	0.5	1	96
0.5	0.5	1	97
0.5	0.5	1	98
0.5	0.5	1	99
0.5	0.5	1	100

5

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Description:

Isolated Find located on the flood plains of the Hunter River and Rosebrook Creek . Environment is cleared, heavily used agricultural land with high level of erosion.

### Features:

2.

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
--------------------	---------------------------------	---------------------------------

7



7

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
0.5	0.5	1	1
0.5	0.5	1	2
0.5	0.5	1	3
0.5	0.5	1	4
0.5	0.5	1	5
0.5	0.5	1	6
0.5	0.5	1	7
0.5	0.5	1	8
0.5	0.5	1	9
0.5	0.5	1	10
0.5	0.5	1	11
0.5	0.5	1	12
0.5	0.5	1	13
0.5	0.5	1	14
0.5	0.5	1	15
0.5	0.5	1	16
0.5	0.5	1	17
0.5	0.5	1	18
0.5	0.5	1	19
0.5	0.5	1	20
0.5	0.5	1	21
0.5	0.5	1	22
0.5	0.5	1	23
0.5	0.5	1	24
0.5	0.5	1	25
0.5	0.5	1	26
0.5	0.5	1	27
0.5	0.5	1	28
0.5	0.5	1	29
0.5	0.5	1	30
0.5	0.5	1	31
0.5	0.5	1	32
0.5	0.5	1	33
0.5	0.5	1	34
0.5	0.5	1	35
0.5	0.5	1	36
0.5	0.5	1	37
0.5	0.5	1	38
0.5	0.5	1	39
0.5	0.5	1	40
0.5	0.5	1	41
0.5	0.5	1	42
0.5	0.5	1	43
0.5	0.5	1	44
0.5	0.5	1	45
0.5	0.5	1	46
0.5	0.5	1	47
0.5	0.5	1	48
0.5	0.5	1	49
0.5	0.5	1	50
0.5	0.5	1	51
0.5	0.5	1	52
0.5	0.5	1	53
0.5	0.5	1	54
0.5	0.5	1	55
0.5	0.5	1	56
0.5	0.5	1	57
0.5	0.5	1	58
0.5	0.5	1	59
0.5	0.5	1	60
0.5	0.5	1	61
0.5	0.5	1	62
0.5	0.5	1	63
0.5	0.5	1	64
0.5	0.5	1	65
0.5	0.5	1	66
0.5	0.5	1	67
0.5	0.5	1	68
0.5	0.5	1	69
0.5	0.5	1	70
0.5	0.5	1	71
0.5	0.5	1	72
0.5	0.5	1	73
0.5	0.5	1	74
0.5	0.5	1	75
0.5	0.5	1	76
0.5	0.5	1	77
0.5	0.5	1	78
0.5	0.5	1	79
0.5	0.5	1	80
0.5	0.5	1	81
0.5	0.5	1	82
0.5	0.5	1	83
0.5	0.5	1	84
0.5	0.5	1	85
0.5	0.5	1	86
0.5	0.5	1	87
0.5	0.5	1	88
0.5	0.5	1	89
0.5	0.5	1	90
0.5	0.5	1	91
0.5	0.5	1	92
0.5	0.5	1	93
0.5	0.5	1	94
0.5	0.5	1	95
0.5	0.5	1	96
0.5	0.5	1	97
0.5	0.5	1	98
0.5	0.5	1	99
0.5	0.5	1	100

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10/10/2019

**Description:**

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

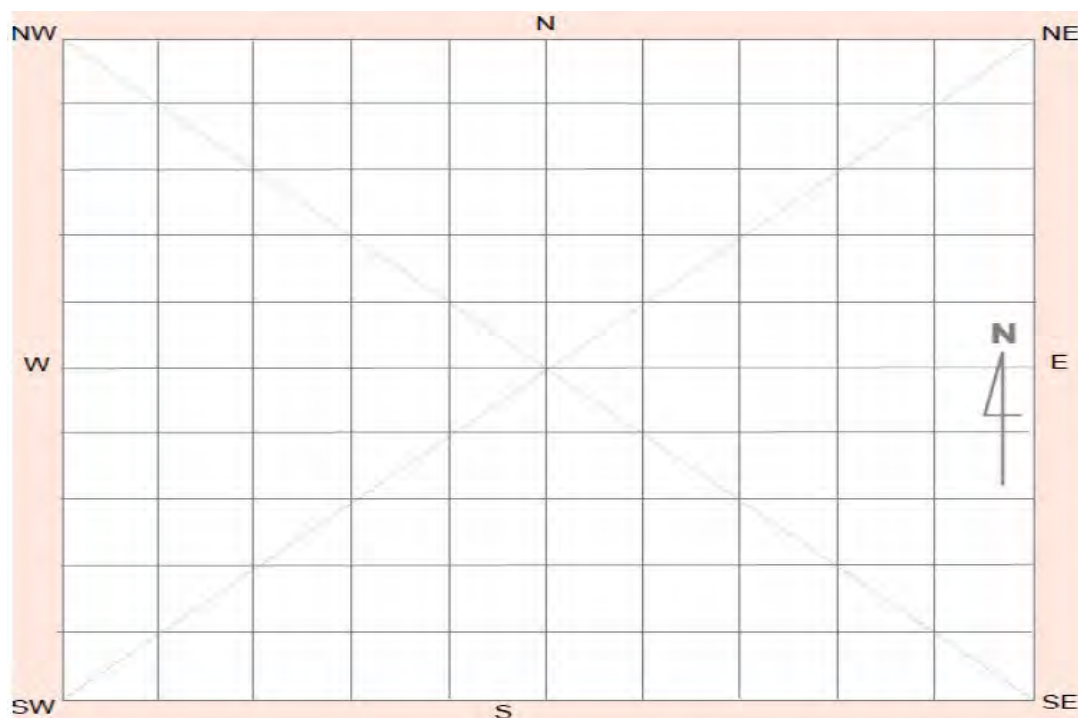
## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

Other Site Info:

Soils in the vicinity of the site are fairly stable apart from the erosion caused by the vehicle track

**Site plan**

## Site photographs



Description:

Artefact of MPO 2017/3



Description:

Artefact of MPO 2017/3



Description:

Location of site MPO 2017/3 photo facing S



Description:

Location of MPO 2017/3 photo facing E

## Site restrictions

Do you want to  
Restrict this site?: ☐

Restriction type:

Gender ☐ General ☐ Location ☐

Why is this site restricted?:

## Further information contact

Title  Surname  First name

Organisation:

Address:

Phone:  E-mail:



# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 33-2-0026

Date recorded: 31-10-2017

## Site Location Information

Site name: MPO 2017/2

Easting: 297938 Northing: 6427683 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

## Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name  
Mr. Hansel Balazs

Organisation: Niche Environment and Heritage

Address: 19 Sorrell Street, north Parramatta NSW 1750

Phone: 0488224300 E-mail: bhansel@niche-eh.com

## Site Context Information

Land Form Pattern: Rolling Hills Land Use: Farming Intensive

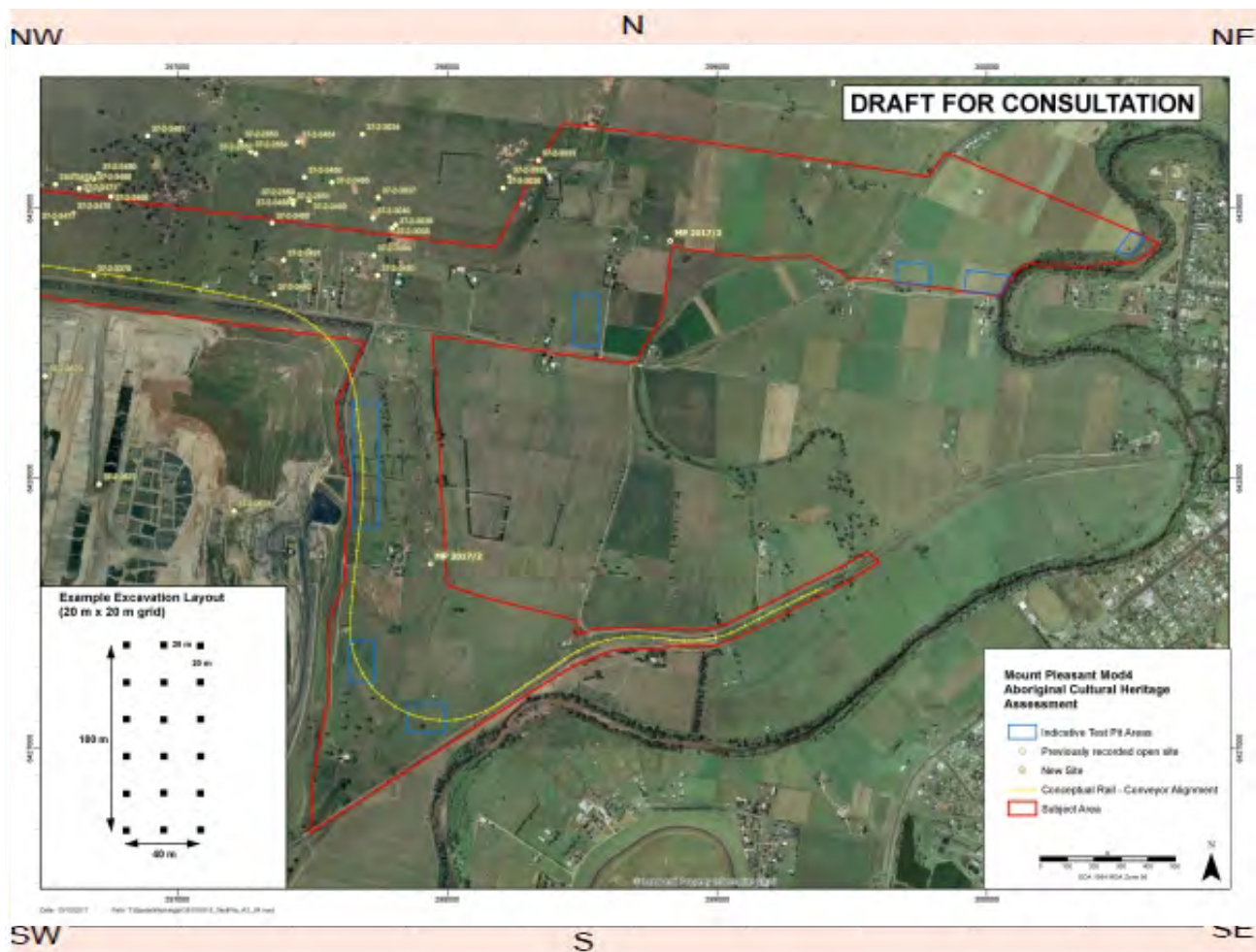
Land Form Unit: Slope Vegetation: Cleared

Distance to Water (m): 130 Primary Report: MT Pleasant Operations MOD4 ACHA

How to get to the site: Drive on Kayuga Rd to W from Muswellbrook. Turn on Wybong Rd and drive twds W. After approx 3km turn left on Overton Rd and drive 900m twds S. The site is located approx. 300 m twds E at the bottom of the hill.

Other site information: Soils in the vicinity of the site are fairly stable apart from the erosion caused by the vehicle track

## Site location map



## Site contents information

open/closed site:

<b>Site condition:</b>	Disturbed
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### Features:

1. Artefact

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
--------------------	---------------------------------	---------------------------------

1

5

5

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
0.5	0.5	1	1
0.5	0.5	1	2
0.5	0.5	1	3
0.5	0.5	1	4
0.5	0.5	1	5
0.5	0.5	1	6
0.5	0.5	1	7
0.5	0.5	1	8
0.5	0.5	1	9
0.5	0.5	1	10
0.5	0.5	1	11
0.5	0.5	1	12
0.5	0.5	1	13
0.5	0.5	1	14
0.5	0.5	1	15
0.5	0.5	1	16
0.5	0.5	1	17
0.5	0.5	1	18
0.5	0.5	1	19
0.5	0.5	1	20
0.5	0.5	1	21
0.5	0.5	1	22
0.5	0.5	1	23
0.5	0.5	1	24
0.5	0.5	1	25
0.5	0.5	1	26
0.5	0.5	1	27
0.5	0.5	1	28
0.5	0.5	1	29
0.5	0.5	1	30
0.5	0.5	1	31
0.5	0.5	1	32
0.5	0.5	1	33
0.5	0.5	1	34
0.5	0.5	1	35
0.5	0.5	1	36
0.5	0.5	1	37
0.5	0.5	1	38
0.5	0.5	1	39
0.5	0.5	1	40
0.5	0.5	1	41
0.5	0.5	1	42
0.5	0.5	1	43
0.5	0.5	1	44
0.5	0.5	1	45
0.5	0.5	1	46
0.5	0.5	1	47
0.5	0.5	1	48
0.5	0.5	1	49
0.5	0.5	1	50
0.5	0.5	1	51
0.5	0.5	1	52
0.5	0.5	1	53
0.5	0.5	1	54
0.5	0.5	1	55
0.5	0.5	1	56
0.5	0.5	1	57
0.5	0.5	1	58
0.5	0.5	1	59
0.5	0.5	1	60
0.5	0.5	1	61
0.5	0.5	1	62
0.5	0.5	1	63
0.5	0.5	1	64
0.5	0.5	1	65
0.5	0.5	1	66
0.5	0.5	1	67
0.5	0.5	1	68
0.5	0.5	1	69
0.5	0.5	1	70
0.5	0.5	1	71
0.5	0.5	1	72
0.5	0.5	1	73
0.5	0.5	1	74
0.5	0.5	1	75
0.5	0.5	1	76
0.5	0.5	1	77
0.5	0.5	1	78
0.5	0.5	1	79
0.5	0.5	1	80
0.5	0.5	1	81
0.5	0.5	1	82
0.5	0.5	1	83
0.5	0.5	1	84
0.5	0.5	1	85
0.5	0.5	1	86
0.5	0.5	1	87
0.5	0.5	1	88
0.5	0.5	1	89
0.5	0.5	1	90
0.5	0.5	1	91
0.5	0.5	1	92
0.5	0.5	1	93
0.5	0.5	1	94
0.5	0.5	1	95
0.5	0.5	1	96
0.5	0.5	1	97
0.5	0.5	1	98
0.5	0.5	1	99
0.5	0.5	1	100

7

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**Description:**

Isolated Find located on the lower/steep slope of a south-north high ridge above the flood plains of the Hunter River. Environment is cleared, heavily used agricultural land with high level of erosion.

### Features:

2.

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
--------------------	---------------------------------	---------------------------------

7

7

7

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
0.5	0.5	1	1
0.5	0.5	1	2
0.5	0.5	1	3
0.5	0.5	1	4
0.5	0.5	1	5
0.5	0.5	1	6
0.5	0.5	1	7
0.5	0.5	1	8
0.5	0.5	1	9
0.5	0.5	1	10
0.5	0.5	1	11
0.5	0.5	1	12
0.5	0.5	1	13
0.5	0.5	1	14
0.5	0.5	1	15
0.5	0.5	1	16
0.5	0.5	1	17
0.5	0.5	1	18
0.5	0.5	1	19
0.5	0.5	1	20
0.5	0.5	1	21
0.5	0.5	1	22
0.5	0.5	1	23
0.5	0.5	1	24
0.5	0.5	1	25
0.5	0.5	1	26
0.5	0.5	1	27
0.5	0.5	1	28
0.5	0.5	1	29
0.5	0.5	1	30
0.5	0.5	1	31
0.5	0.5	1	32
0.5	0.5	1	33
0.5	0.5	1	34
0.5	0.5	1	35
0.5	0.5	1	36
0.5	0.5	1	37
0.5	0.5	1	38
0.5	0.5	1	39
0.5	0.5	1	40
0.5	0.5	1	41
0.5	0.5	1	42
0.5	0.5	1	43
0.5	0.5	1	44
0.5	0.5	1	45
0.5	0.5	1	46
0.5	0.5	1	47
0.5	0.5	1	48
0.5	0.5	1	49
0.5	0.5	1	50
0.5	0.5	1	51
0.5	0.5	1	52
0.5	0.5	1	53
0.5	0.5	1	54
0.5	0.5	1	55
0.5	0.5	1	56
0.5	0.5	1	57
0.5	0.5	1	58
0.5	0.5	1	59
0.5	0.5	1	60
0.5	0.5	1	61
0.5	0.5	1	62
0.5	0.5	1	63
0.5	0.5	1	64
0.5	0.5	1	65
0.5	0.5	1	66
0.5	0.5	1	67
0.5	0.5	1	68
0.5	0.5	1	69
0.5	0.5	1	70
0.5	0.5	1	71
0.5	0.5	1	72
0.5	0.5	1	73
0.5	0.5	1	74
0.5	0.5	1	75
0.5	0.5	1	76
0.5	0.5	1	77
0.5	0.5	1	78
0.5	0.5	1	79
0.5	0.5	1	80
0.5	0.5	1	81
0.5	0.5	1	82
0.5	0.5	1	83
0.5	0.5	1	84
0.5	0.5	1	85
0.5	0.5	1	86
0.5	0.5	1	87
0.5	0.5	1	88
0.5	0.5	1	89
0.5	0.5	1	90
0.5	0.5	1	91
0.5	0.5	1	92
0.5	0.5	1	93
0.5	0.5	1	94
0.5	0.5	1	95
0.5	0.5	1	96
0.5	0.5	1	97
0.5	0.5	1	98
0.5	0.5	1	99
0.5	0.5	1	100

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**Description:**

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

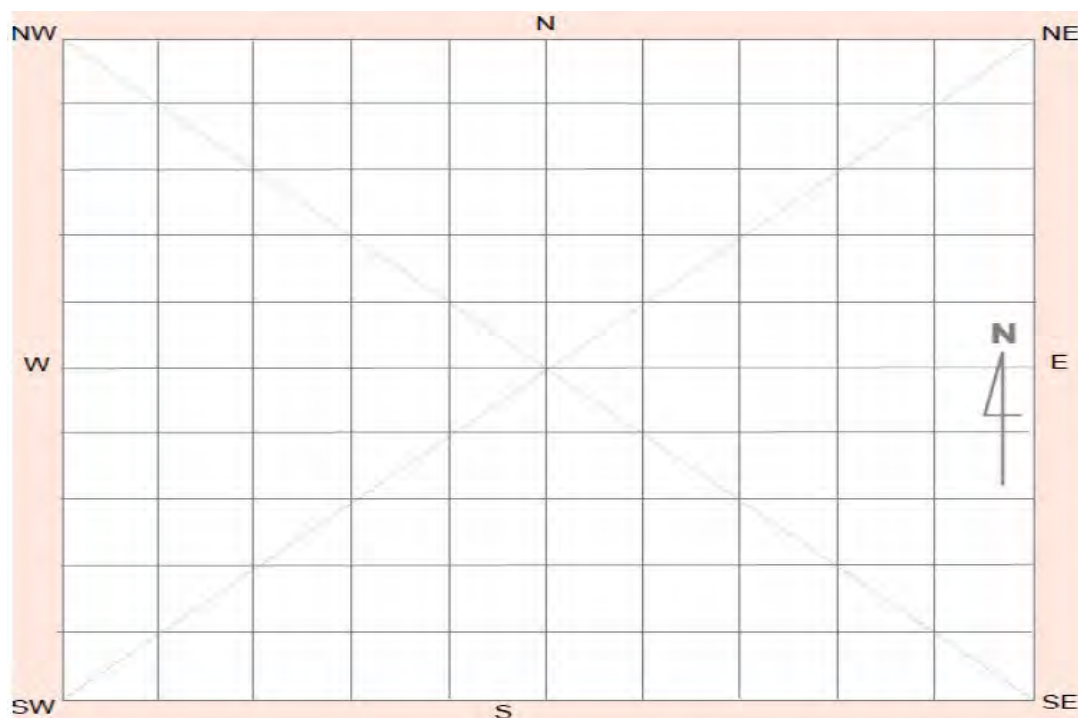
## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

Other Site Info:

Soils in the vicinity of the site are fairly stable apart from the erosion caused by the vehicle track

**Site plan**



Site photographs



Description:	Artefact of MPO 2017/2				



Description:	Artefact of MPO 2017/2				



Description:	Location of site MPO 2017/2 looking E				
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Description:	Location of site MPO 2017/2 looking S				
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Site restrictions

Do you want to Restrict this site?: ☐

Restriction type:      Gender ☐      General ☐      Location ☐

Why is this site restricted?:

Further information contact

Title	Surname	First name
<input type="text"/>	<input type="text"/>	<input type="text"/>
Organisation:	<input type="text"/>	
Address:	<input type="text"/>	
Phone:	<input type="text"/>	E-mail: <input type="text"/>



# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 33-2-0027

Date recorded: 31-10-2017

## Site Location Information

Site name: MPO 2017/1

Easting: 296973 Northing: 6425781 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

## Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name  
Mr. Hansel Balazs

Organisation: Niche Environment and Heritage

Address: 19 Sorrell Street, north Parramatta NSW 1750

Phone: 0488224300 E-mail: bhansel@niche-eh.com

## Site Context Information

Land Form Pattern: Floodplain Land Use: Farming Intensive

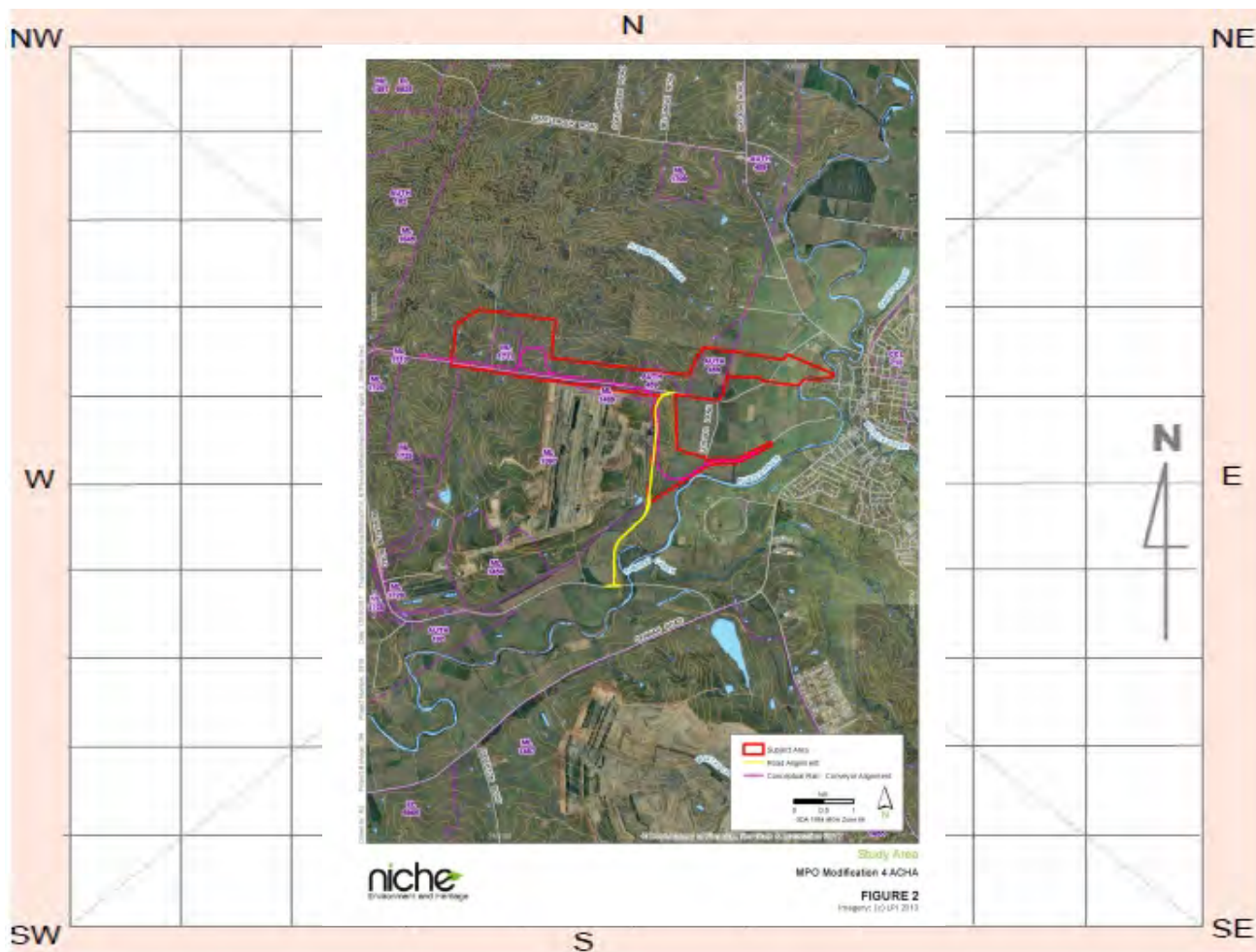
Land Form Unit: Terrace Vegetation: Cleared

Distance to Water (m): 10 Primary Report: MT Pleasant Operations MOD4 ACHA

How to get to the site: Drive on Denman Rd to S from Muswellbrook. Turn on Bengalla Rd and after crossing the Hunter River follow the right/western bank twds N. The site is located approx. 460 m on the edge of the trees.

Other site information: Soils in the vicinity of the site are fairly stable apart from the erosion caused by the vehicle track

## Site location map



## Site contents information

open/closed site:

Site condition:

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
1. <input type="text" value="Artefact"/>	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Description:

Isolated Find located on an unformed vehicle track situated on the right/west bank of the Hunter River

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

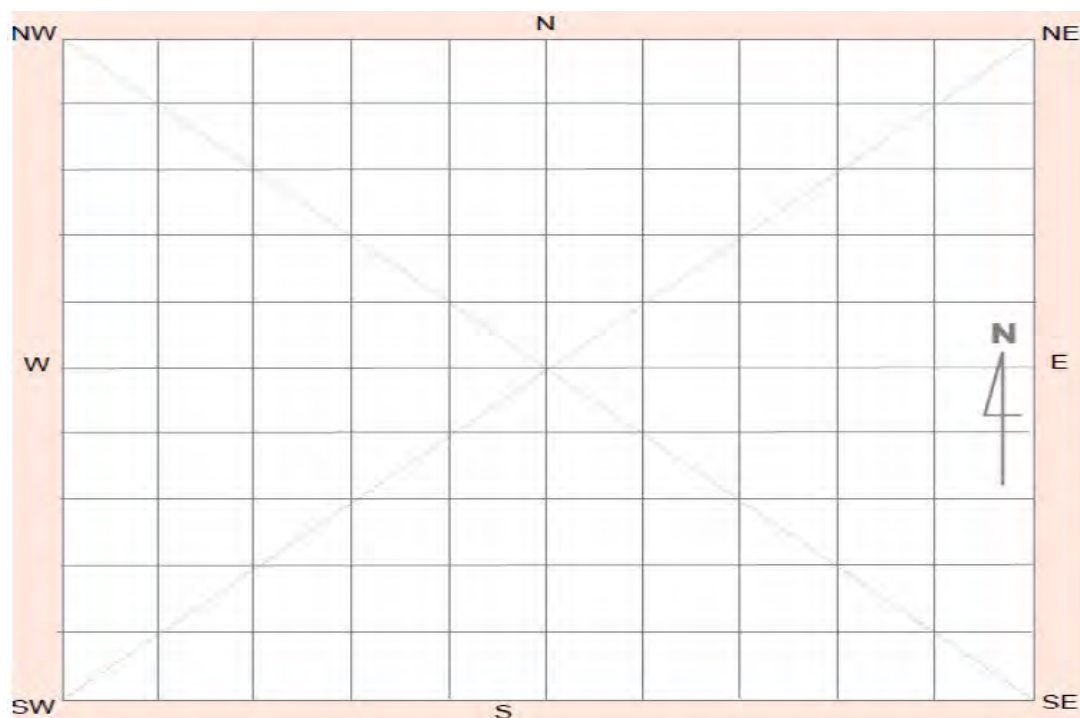
Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Site Info:

Soils in the vicinity of the site are fairly stable apart from the erosion caused by the vehicle track

**Site plan**

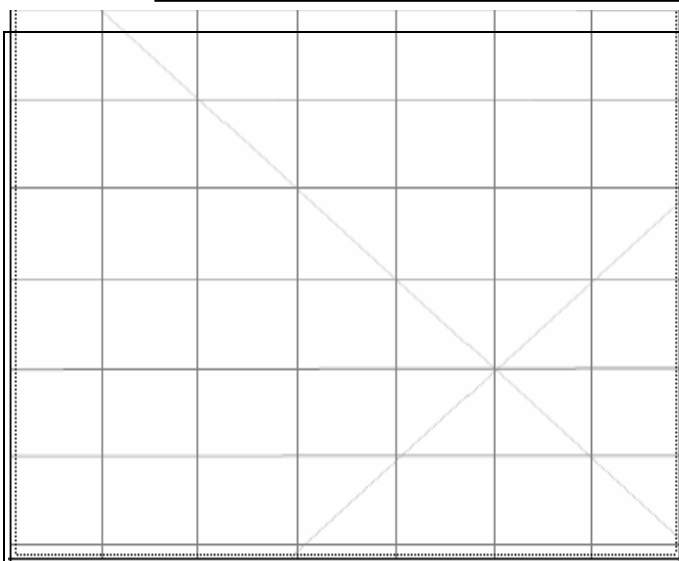
## Site photographs



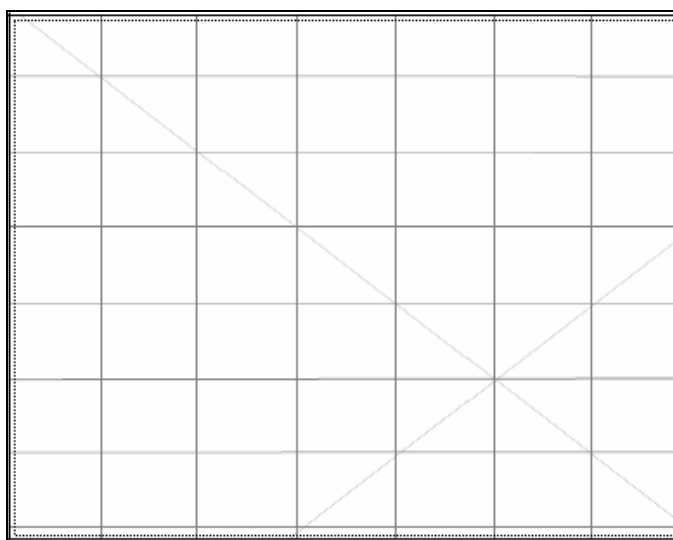
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title	Surname	First name
<input type="text"/>	<input type="text"/>	<input type="text"/>
Organisation:	<input type="text"/>	
Address:	<input type="text"/>	
Phone:	<input type="text"/>	E-mail: <input type="text"/>

# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 33-2-0028

Date recorded: 01-11-2017

## Site Location Information

Site name: MPO 2017/4

Easting: 297881 Northing: 6427124 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

## Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name  
Mr. Hansel Balazs

Organisation: Niche Environment and Heritage

Address: 19 Sorrell Street, north Parramatta NSW 1750

Phone: 0488224300 E-mail: bhansel@niche-eh.com

## Site Context Information

Land Form Pattern: Floodplain Land Use: Farming Intensive

Land Form Unit: Terrace Vegetation: Cleared

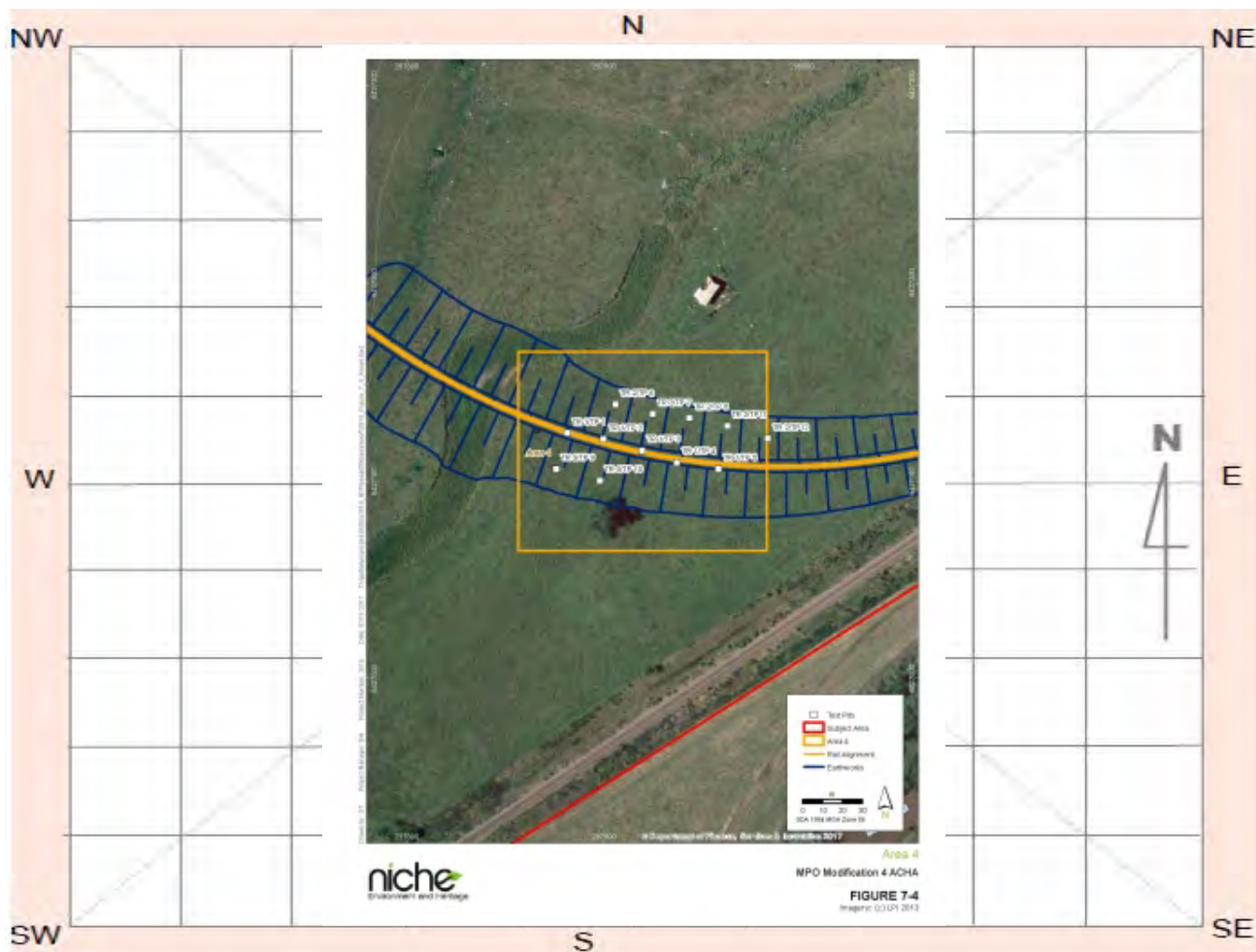
Distance to Water (m): 50 Primary Report: MT Pleasant Operations MOD4 ACHA

How to get to the site: Drive on Kayuga Rd west from Muswellbrook, turn left on Wybong Rd and after 2.2km turn left on Louges Ln. Drive until the road bends left just before the rail and turn here right through a gate into a paddock. The site is approx. 600m twds SW along rail

Other site information: Site is located on the southern edge of old channel of Hunter River. Soils are black, silty, clayey loam with high level of disturbance caused by farming activities. signs of multiple flood events are also visible



## Site location map



## Site contents information

open/closed site:

Site condition:

### Features:

Features:	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. <input type="text" value="Artefact"/>	<input type="text" value="17"/>	<input type="text" value="40"/>	<input type="text" value="20"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Description:

Artefact scatter identified by test excavation in TP 1,3 and 9. low density background scatter within highly disturbed context and with low integrity.

### Features:

Features:	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

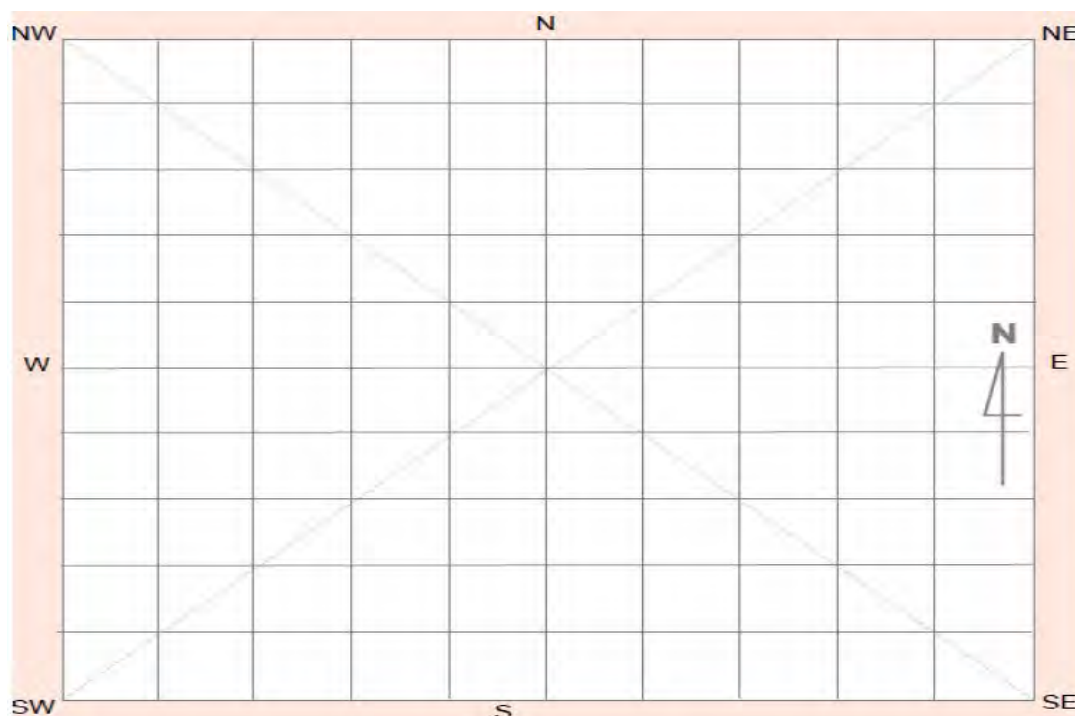
Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

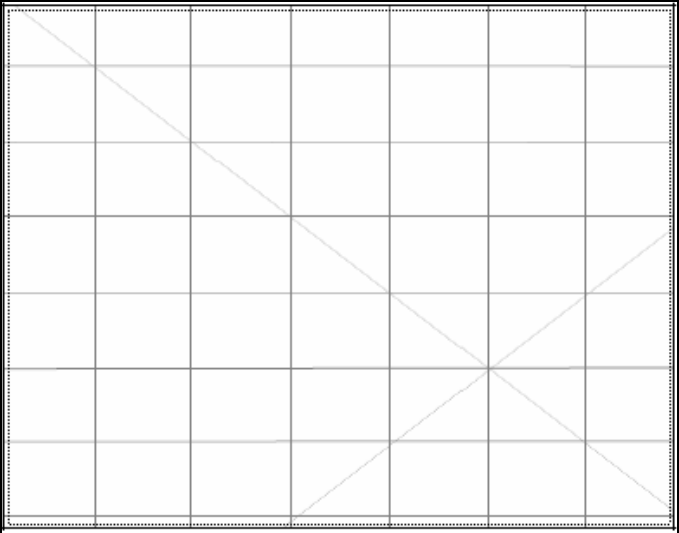
Other Site Info:

Site is located on the southern edge of old channel of Hunter River. Soils are black, silty, clayey loam with high level of disturbance caused by farming activities. signs of multiple flood events are also visible

**Site plan**

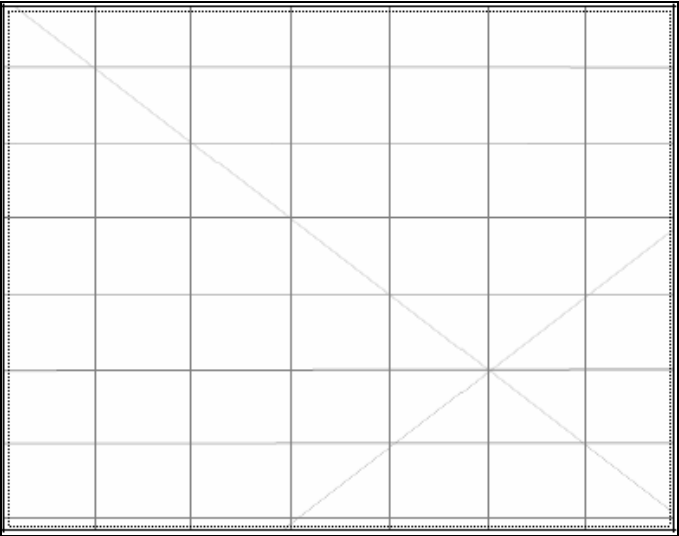
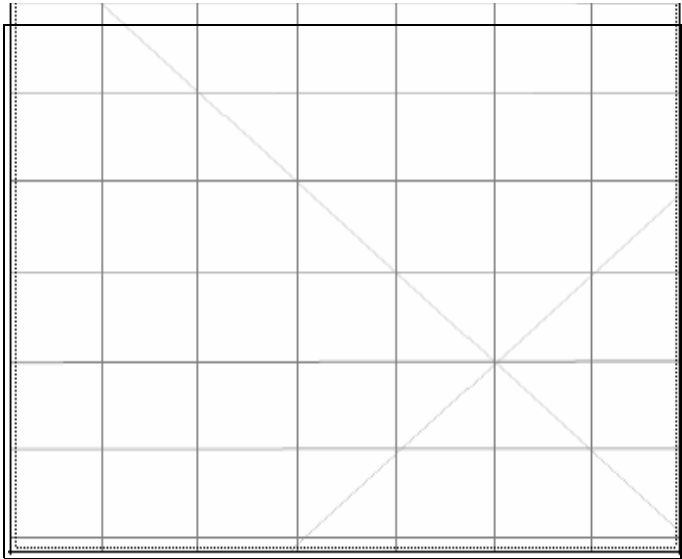


Site photographs



Description: Location of site MPO 2017/4. TR1/TP1 is under the gazebo.

Description:



Description:

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type:

Gender

General

Location

Why is this site restricted?:

Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 33-2-0029

Date recorded: 01-11-2017

## Site Location Information

Site name: MPO 2017/5

Easting: 297638 Northing: 6427371 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 5

Zone: 55 Location method: Non-Differential GPS

## Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name  
Mr. Hansel Balazs

Organisation: Niche Environment and Heritage

Address: 19 Sorrell Street, north Parramatta NSW 1750

Phone: 0488224300 E-mail: bhansel@niche-eh.com

## Site Context Information

Land Form Pattern: Rolling Hills Land Use: Farming Intensive

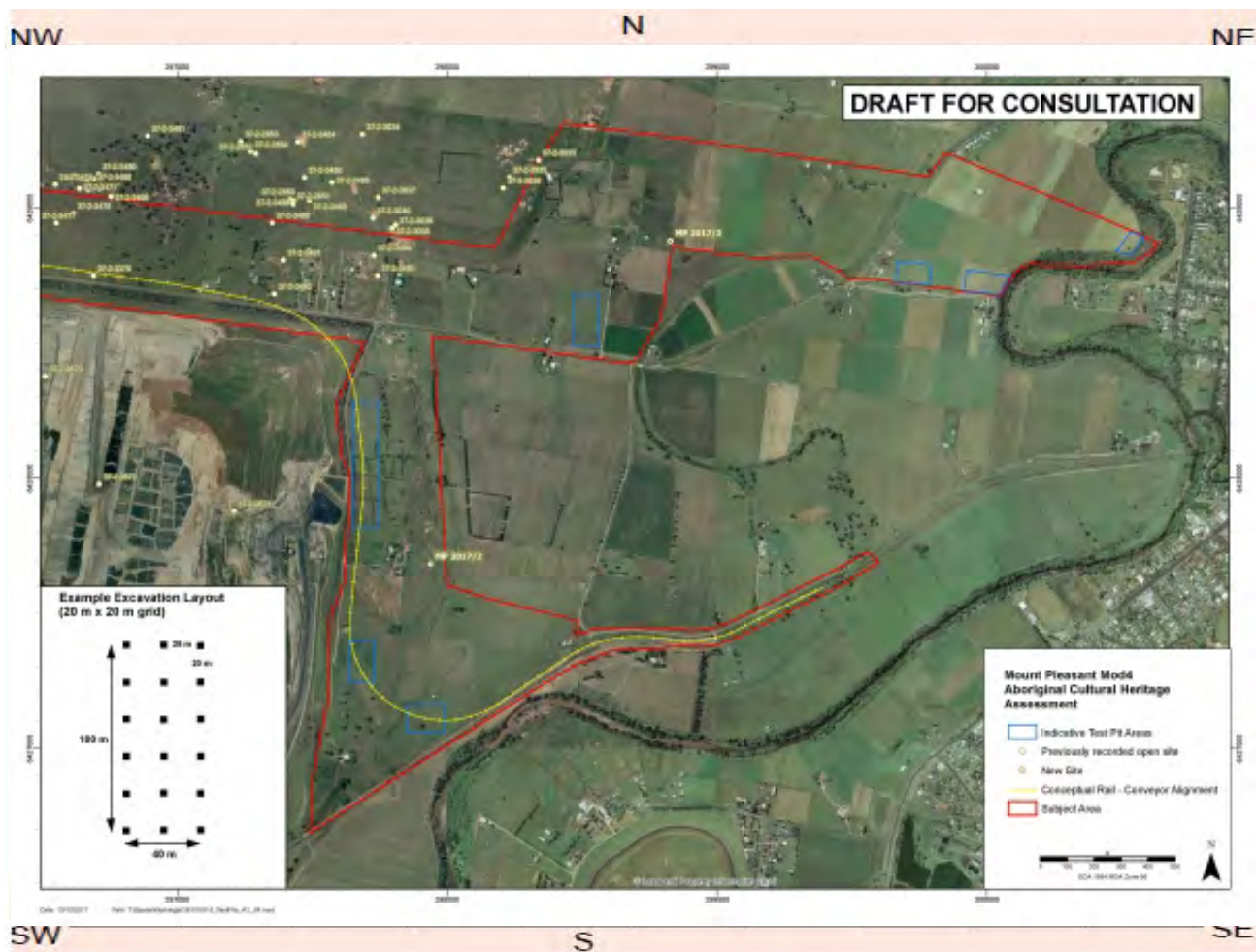
Land Form Unit: Ridge Vegetation: Cleared

Distance to Water (m): 300 Primary Report: MT Pleasant Operations MOD4 ACHA

How to get to the site: Drive on Kayuga Rd west from Muswellbrook, turn left on Wybong Rd and after 3km turn left on Overton Rd. Drive twds S 900m. The site is approx. 50m twds E on the E side of the tree line

Other site information: Site is located on a small hill just above the flood plains of the Hunter river. Soils are red, gravelly, clayey hard silty. Large amounts of gravel and colluvial rock

## Site location map



## Site contents information

open/closed site:

Site condition:

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. <input type="text" value="Artefact"/>	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text" value="5"/>

### Description:

Isolated find recovered from Area 3 TR 1/TP1 during test excavation. Area 3 is the small blue square on attached figure located on the top of low hill NW of rail line

### Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Description:

### Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

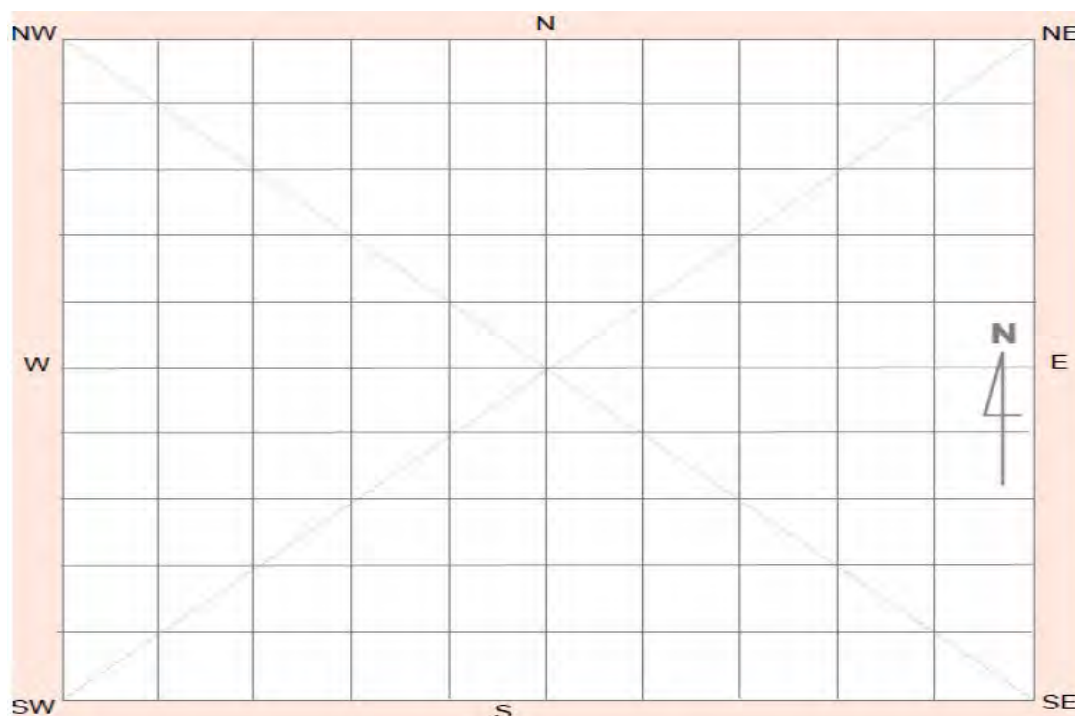
Description:

## Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Site Info:

Site is located on a small hill just above the flood plains of the Hunter river. Soils are red, gravelly, clayey hard silty. Large amounts of gravel and colluvial rock

**Site plan**

Site photographs



Description:

Description:



Description:

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: 

Gender

General

Location

Why is this site restricted?:

Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:  E-mail:

## Appendix 8 – List of Registered Aboriginal Parties

---



**Table A8-1**  
**List of Registered Aboriginal Parties for the Modification**

FULL NAME	CORPORATION
Adam Sampson	AGA Services
Aliera French	Aliera French Trading
Alison Howlett	Buda Mada Koori Womens Aboriginal Corporation
Allen Paget	Ungooroo Aboriginal Corporation
Amanda Hickey	Amanda Hickey Cultural Services
Anne Hickey	Gidawaa Walang Cultural Heritage Consultancy
Arthur Fletcher	Wonnarua Elders Council Inc.
Arthur Fletcher	Kauwul (Wonn 1)
Barry & Colleen Stair	-
Barry Anderson	Lower Wonnarua Tribal Consultancy Pty Ltd
Barry McTaggart	Yarrowalk Enterprises
Ben Cameron	BJC Cultural Management
Brian Horton	Muswellbrook Culture Consultants
Chantae Griffiths	-
Christine Archbold	Hunter Valley Cultural Consultants
Clifford Johnson	-
Clifford Matthews	Mingga Consultants
Darrel Matthews	Upper Hunter Heritage Consultants
David Ahoy	Lower Hunter Aboriginal Incorporated
David French	Upper Hunter Natural and Cultural Resources Management
David Horton	Gomery Cultural Consultants
Deidre Perkins	Divine Diggers Aboriginal Cultural Consultants
Derrick Vale Sr	DFTV Enterprises
Des Hickey	Wattaka Wonnarua Cultural Consultants Service
Des Hickey	Wonnarua Traditional Custodians
Deslee Matthews	Deslee Talbot Consultant
Elizabeth Howard	Waabi Gabinya Cultural Consultancy
Esther Tighe	-
Fiona Draper	-
George Sampson	Cacatua General Services
Gina Field	-
Gordon Griffiths	Wonnarua Culture Heritage
Greg Griffiths	Gomeroi Murri Ganuurr Yuuray Wadi Palinka
Hazel Collins	-
Helen Faulkner	DRM Cultural Management
Ivy Jaeger	I & E Aboriginal Culture and Heritage
Jeff Matthews	Crimson-Rosie
Jenny-Lee Chambers	JLC Cultural Services
Jill Green	Lower Hunter Aboriginal Corporation
John & Margaret Matthews	Aboriginal Native Title Consultants



FULL NAME	CORPORATION
Justin Matthews	Carrawonga
Karen Matthews	Galamaay Consultant
Kathleen Steward-Kinchela	Yinarr Cultural Services
Kerren Boyd	HECMO Consultants
Kevin Sampson	Bawurra Consultants
Kristen Kerr	Warrabinga Native Title Claimants Aboriginal Corporation
Krystal Saunders	KL.KG Saunders Trading Services
Larry van Vliet	Valley Culture
Laurie Perry	Wonnarua Nation Aboriginal Corporation
Les Atkinson	Jarban & Mugrebea
Les Field	L.J Culture Management
Luke Cameron	Luke Cameron Cultural Management
Luke Hickey	Hunter Valley Cultural Surveying
Maree Waugh	Wallangan Cultural Services
Maria Stocks	Wanaruah Aboriginal Custodians Corporation
Marie-Ellen Griffiths	ME Griffiths Cultural Management
Mark Hickey	Kayaway Eco-Cultural and Heritage Services
Marvonja Welsh	-
Michele Stair	-
Norm Archibald	Jumbunna Traffic Management Group Pty Ltd
Paulette Ryan	HTO Environmental Management Services
Rebecca Lester	Wonnarua Culture and Heritage
Rhoda Perry	Upper Hunter Wonnarua Council Incorporated
Rhonda Griffiths	Hunter Valley Aboriginal Corporation
Rhonda Ward	Ungooroo Cultural & Community Services Inc
Rick Coles	Hunter Valley Traditional Owner Environmental Management Services
Robert Smith	Murrawan Cultural Consultants
Rod Hickey	Kawul Cultural Services
Rodney Matthews	Giwiirr Consultants
Roger Noel Matthews	Roger Noel Matthews
Scott Franks	Tocomwall Pty Ltd
Scott Franks & Robert Lester	Plains Clans of the Wonnarua People Registered Native Title Claim
Stephen Talbott	Gomeroi Namoi Traditional Owners
Steven Hickey	Widescope Indigenous Group Pty Ltd
Susan Cutmore	Moreeites
Suzie Worth & Noel Downs	Wanaruah Local Aboriginal Lands Council
Tammy Knox	Bunda Counsultants
Terry Matthews	Breeza Plains Culture and Heritage Consultants
Timothy Smith	Smith Dhagaans Cultural Group
Tom Miller	Lower Hunter Wonnarua Council Inc.
Tony Griffiths	T & G Culture Consultants
Tracey Skene	Culturally Aware

FULL NAME	CORPORATION
Warren Schillings	My Land Cultural Heritage
Warren Taggart	-
Wayne Griffiths	Bigundi Biame Traditional People
Des Hickey	Valley ELM Corp
Amanda Howard	-
Carolyn Hickey	A1 Indigenous Services

## Appendix 9 – Geomorphological Assessment of Subsurface Archaeological Potential

---

# Mount Pleasant Operation Rail Modification

Technical Study Report

Geomorphological Assessment of Sub-surface Archaeological  
Potential

Dr Christopher J Gippel

Final

December 2017

FLUVIAL SYSTEMS 

## Mount Pleasant Operation

### Geomorphological Assessment of Sub-surface Archaeological Potential

Prepared for:

MACH Energy Australia Pty Ltd

Prepared by:

Fluvial Systems Pty Ltd

PO Box 49, Stockton, NSW Australia, 2295

P: +61 2 4928 4128, F: +61 2 4928 4128; M +61 (0)404 472 114

Email: [fluvialsystems@fastmail.net](mailto:fluvialsystems@fastmail.net)

ABN: 71 085 579 095

December 2017

Please cite as follows:

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## Document History and Status

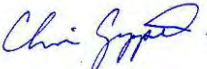
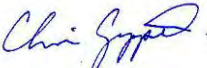
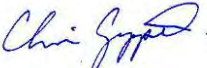
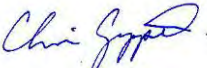
Document Mount Pleasant Operation Rail Modification, Geomorphological Assessment of Sub-surface Archaeological Potential

Ref

Date 18-12-2017

Prepared by Christopher Gippel

### Revision History

Revision	Revision Date	Details	Authorised	
			Name/Position	Signature
A	31-10-2017	Draft for Review	Chris Gippel Geomorphologist	
B	06-11-2017	Final for review 1	Chris Gippel Geomorphologist	
C	09-11-2017	Final for review 2	Chris Gippel Geomorphologist	
D	18-12-2017	Final	Chris Gippel Geomorphologist	



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## Executive Summary

This report documented the geomorphological character of the Mount Pleasant Operation Rail Modification (the proposed Modification) Study Area (the focus Study Area) in the vicinity of water pump and pipeline and rail spur zones using repeatable desktop methods and a visual inspection.

The scope of work for this Technical Report included:

- assessment of recent (< approx. 50,000 years) landscape formation history in the vicinity of the proposed Modification.
- identification of areas in the vicinity of the proposed Modification with potential for finding preserved sub-surface evidence of Aboriginal occupation.

The methodology used a well established approach to make use of digital topographic and aerial photographic data to analyse the characteristics of the terrain. Detailed Light Detection and Ranging (LiDAR) data was available to represent elevation of the terrain surrounding the area of interest. The terrain indicators Multiresolution Index of Valley Bottom Flatness (MRVBF), relative floodplain height and slope were used together with existing soil data and evidence from the literature concerning comparable sites, to interpret landform history and identify areas with potential for finding preserved sub-surface evidence of Aboriginal occupation.

On the basis of a published theory of the formation of duplex soils found on the hillslopes of the Mount Pleasant area, it was concluded that the likelihood of finding preserved sub-surface evidence of late-Pleistocene Aboriginal occupation was low. Most of the A horizon sedimentary material on the slopes is estimated to be less than 3,000 years old. Floodplain alluvium also holds low potential for archaeological material due to disturbance by reworking of sediments by floods. Areas with the highest likelihood of finding preserved sub-surface evidence of Aboriginal occupation would be on the western side, near the interface of the floodplain and colluvial hillslope, and adjacent to an accessible water source.

The results of terrain analysis, and inspection of excavation test pits were consistent with the theory of soil formation and potential to contain archaeological materials outlined by Hughes. According to that theory, the likelihood of finding preserved sub-surface evidence of late-Pleistocene Aboriginal occupation anywhere in the focus Study Area is very low. It would be possible to find material of a more recent age, although they would most likely be small fragments broken during the process of dispersal from their original location through washing downslope or being transported by floods.

## 1.0 Introduction

### 1.1 Mount Pleasant Operation Rail Modification

The Mount Pleasant Operation Development Consent DA 92/97 was granted on 22 December 1999. The Mount Pleasant Operation was also approved under the *Environment Protection and Biodiversity Conservation Act, 1999* in 2012 (EPBC 2011/5795).

MACH Energy Australia Pty Ltd (MACH Energy) acquired the Mount Pleasant Operation from Coal & Allied Operations Pty Ltd on 4 August 2016. MACH Energy commenced construction activities at the Mount Pleasant Operation in November 2016 and commenced mining operations in October 2017, in accordance with Development Consent DA 92/97 and EPBC 2011/5795.

The approved Mount Pleasant Operation includes the construction and operation of an open cut coal mine and associated rail spur and product coal loading infrastructure located approximately three kilometres north-west of Muswellbrook in the Upper Hunter Valley of New South Wales (NSW) (Figure 1 and Figure 2).

The mine is approved to produce up to 10.5 million tonnes per annum of run-of-mine coal. Up to approximately nine trains per day of thermal coal products from the Mount Pleasant Operation will be transported by rail to the port of Newcastle for export or to domestic customers for use in electricity generation.

The ultimate extent of the approved Bengalla Mine open cut intersects the approved Mount Pleasant Operation rail spur.

While the intersection of the Bengalla Mine open cut with the approved Mount Pleasant Operation rail infrastructure is still some years away, MACH Energy is proposing a Rail Modification (the proposed Modification) to obtain approval for future rail and/or conveyor product transport facilities to manage this future interaction.

The proposed Modification would primarily comprise (Figure 2):

- duplication of the approved rail spur, rail loop and associated conveyor and rail load-out facility;
- duplication of the Hunter River water supply pump station and associated water pipeline that currently follows the rail spur alignment; and
- demolition and removal of the redundant approved infrastructure within the extent of the Bengalla Mine, once the new rail, product loading and water supply infrastructure has been commissioned and is fully operational.

The proposed Modification would not alter the number of approved train movements on the rail network or operational workforce of the Mount Pleasant Operation.

### 1.2 Purpose of the Report

This Geomorphological Assessment of Sub-surface Archaeological Potential is mainly concerned with describing the geomorphological character of the area associated with the proposed Modification.

The scope of work for this Technical Report included:

- assessment of recent (< approx. 50,000 years before present [BP]) landscape formation history in the vicinity of the proposed Modification.
- identify areas in the vicinity of the proposed Modification with potential for finding preserved sub-surface evidence of Aboriginal occupation.

In geological age, the oldest expected material would belong to the late-Pleistocene epoch (11,700 – approx. 50,000 years BP), and more recent material would belong to the Holocene epoch (<11,700 years BP). This report makes no distinction between the cultural value of late-Pleistocene and Holocene archaeological material, but it is noted that material of recent age is more commonly found, while late-Pleistocene material could inform the timeline of occupation of the area.



Figure 1. Mount Pleasant Operation Rail Modification Regional Location. Source: Resource Strategies.



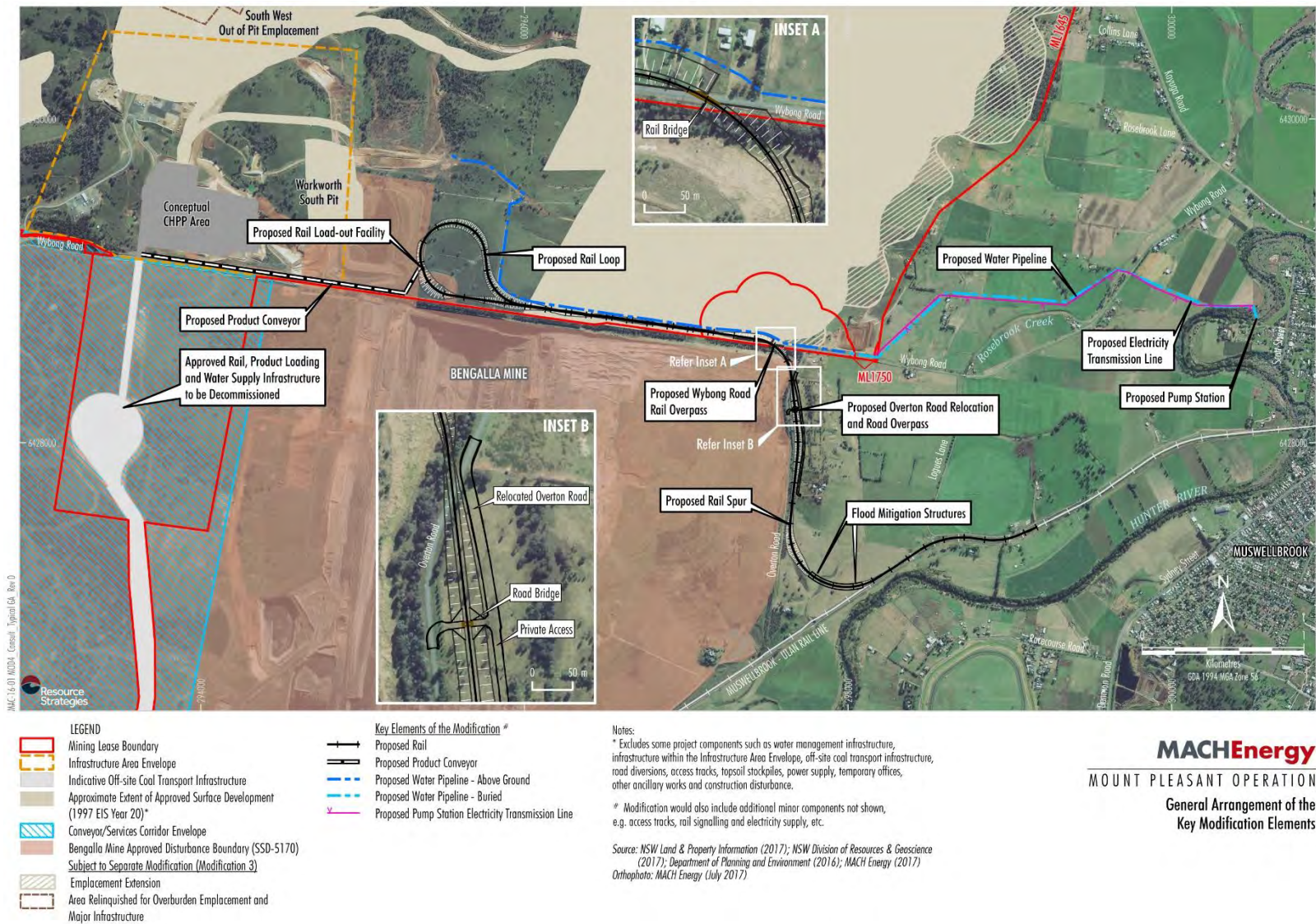


Figure 2. Mount Pleasant Operation Rail Modification General Arrangement of the Mount Pleasant Operation and the Key Elements of the Modification. Source: Resource Strategies

## 2.0 Landform Elements with Greatest Potential to Contain Archaeological Materials

Hughes et al. (2014) reported that the numerous archaeological investigations conducted in the Hunter Valley since the 1970s, many associated with coal mining developments, have found thousands of archaeological sites containing stone artefacts in open contexts. A range of evidence indicates that almost all of the stone artefacts in these sites are of Holocene age (<11,700 years BP), and most are probably from the late-Holocene (3,000 – 5,000 years BP) (Hughes et al., 2014). The paucity of archaeological sites older than mid- to late-Holocene does not appear to be explained by lack of survey effort, and from the perspective of climate and resources the area would have been attractive for occupation from the time of first occupation ~50,000 years ago and up to the Last Glacial Maximum (Hughes et al., 2014), which occurred about 21,000 years BP.

Hughes (1999), Hughes (2000), Hughes (2003) and Hughes et al. (2014) summarised the hypothesis of Dean Jones and Mitchell (1993, pages 40-46) on the genesis of texture contrast, also known as duplex, soils and their implications for archaeology. This hypothesis challenged the conventional idea that the A and B horizons in duplex soils developed in situ over long time periods and were of the same age. From the early 1980s, Hughes and colleagues began describing these soils in sedimentological rather than pedological terms as Unit A being modern to Holocene sediments unconformably overlying Unit B deposits of Pleistocene age. Dean-Jones and Mitchell (1993) proposed that in the Hunter region, duplex soils are the result of superposition of two unlike materials through the action of contemporary lateral movement of sediments down the slope (Hughes, 2000). Rainsplash acting together with rapid shallow bioturbation are the mechanisms of downslope transport of fine material, effectively coarsening the A horizon at the expense of the B horizon and commonly leading to the presence of a stone layer between these horizons.

If the described theory is correct, the implications for archaeology are, according to Dean-Jones and Mitchell (1993), and listed by Hughes (2000): (i) the A horizons of duplex soils are between 200 and 3,000 years old, rather than 20,000 to 30,000 years old; (ii) duplex soils are not stratified chronologically; (iii) stone artefacts will behave in the same way as natural stones on a hillslope and will be subjected to surface dispersion, downslope movement and differential burial or exposure by bioturbation; and (iv) intact or relatively undisturbed hearths provide the best prospects for dating open sites in these contexts.

Considering the work of Dean-Jones and Mitchell (1993), Hughes (2000) suggested that A horizons would need to be at least 300 millimetres (mm) thick before considering the possibility that older basal archaeological materials can be distinguished from overlying younger materials. Hughes (2000) also referred to the work of Nanson and Young (1988) on the lower Nepean River which suggested a period of major hillslope sediment stripping (the 'Cranebrook Pluvial') began more than 100,000 years ago and may have completed by 50,000 years ago. The suggestion here is that the last glacial maximum (about 20,000 to 18,000 years BP) was typified by low level fluvial activity. If episodes of major hillslope stripping occurred during the late-Pleistocene, then it was probably before about 50,000 years ago. The processes of rainwash erosion and bioturbation acting continuously through time would have repeatedly reworked the A horizon material such that at any given time over the past 50,000 years, the A horizon sediment would never have been older than about 3,000 years. The B horizon would have been little affected by this reworking process. Hughes (2000) agreed with Dean-Jones and Mitchell (1993) that any stone artefacts contained in the evolving A horizons would have been dispersed vertically and laterally, such that most duplex soils have no or negligible potential for Pleistocene archaeological material. The colluvial B horizon material is likely to have developed prior to human occupation of the Hunter region, so Hughes (2000) argued that B horizons of these duplex soils also have negligible potential to contain Pleistocene archaeological materials. Consistent with this, Hughes et al. (2014) reported that numerous excavations have recovered many thousands of artefacts in the A horizon of these texture contrast soils (especially the lower A2 horizon), but, with a few exceptions, not in the B horizon.

On Widden Brook, a low-sinuosity, terrace- and bedrock-confined, sand-bed stream in the upper Hunter Valley, NSW, Cheetham et al. (2010) found that inset, step-terrace sequences had progressively younger terrace deposits towards the channel. Colluvial deposits on top of older terraces generally yielded younger ages than fluvially deposited sediments on subsequent or younger terraces. Cheetham et al. (2010) noted that this observation was consistent with the general understanding that hillslope instability would maintain sediment supply to colluvial deposits after terrace formation (Williams, 1978).

Hughes and Hiscock (2000) investigated the potential for Pleistocene archaeological materials in alluvial soils associated with the Hunter River floodplain at Carrington Mine site. They concluded that colluvial deposits draped onto the floodplain have good potential. In comparison, the alluvial deposits themselves, being subject to natural episodic fluvial deposition and erosion, plus cultivation, means that stratified archaeological deposits would be less likely to form and be preserved. The largest historical flood in the Hunter Valley occurred in 1949, but this was greatly exceeded by palaeofloods that occurred during the late-Holocene (Erskine, 1994; Erskine and Peacock, 2002). Large floods are often associated with extensive geomorphic change, including floodplain stripping, channel migration, scour and deposition. Nanson and Erskine (1988) showed that channels and floodplains of coastal rivers in southeastern Australia had morphology that reflected a condition of cyclic equilibrium, alternating between short periods of catastrophic floods when channel and floodplain sediments erode by vertical and lateral stripping, and intervening periods of lower intensity events when the channels and floodplains slowly accrete (Nanson and Croke, 1992).

Below a depth of about 0.5 metres (m) there could be potential to find stratified deposits on floodplain soils containing archaeological materials. Sites with the highest potential would be those having a protective sediment layer. As well as areas on floodplain margins with colluvial drapes, the other situation with potential would be underneath natural levees associated with cut-off channels on elevated terraces (higher elevation suggests greater antiquity, possibly late-Pleistocene). Areas in proximity of the active river channel banks, on the side from which the river channel has migrated, are likely to be disturbed by erosion and deposition over the past few hundred years, so would have low potential for Pleistocene archaeological materials.

Hughes et al. (2014) concluded that in the central lowlands of the Hunter Valley, most open archaeological materials older than ~10,000 years have either been completely removed or have been widely dispersed across the landscape and are no longer recognisable as discrete Pleistocene-aged assemblages. Where artefacts are found in the A horizons of the duplex soils of the valleys, older artefacts will be very difficult to distinguish from the associated younger artefacts (Hughes et al., 2014).

Dean-Jones and Mitchell (1993, pages 39, 63 - 64) identified four geomorphic situations favouring the preservation of older open sites in the central lowlands of the Hunter Valley, listed by Hughes (2000) as:

1. Buried sites near the apices (tip or top) of low angle alluvial fans.
2. Overlapping fluvial terraces (no examples of which have yet been recorded from the Hunter region). Most terrace sequences are inset terraces, which are less likely to preserve older sites.
3. Where alluvial fans of tributary streams impinge on terraces and floodplains of the main stream.
4. Within dunes or on older surfaces buried by advancing dunes and sand sheets.

This report was prepared to inform archaeological investigations of the focus Study Area. Methods of terrain analysis were used to characterise the landforms with the objective of identifying if and where the above geomorphic situations, thought to favour the preservation of older open archaeological sites, might occur.



## 3.0 Methodology

### 3.1 Study Area

The focus Study Area boundary considered for this Technical Report was in the proximity of the proposed Modification, but also included consideration of the immediate surrounds. The focus Study Area was also considered within the context of the geomorphological character of the wider Mount Pleasant area.

#### 3.1.1 Primary Data

A field inspection of the focus Study Area was undertaken by Dr Christopher Gippel of Fluvial Systems Pty Ltd on 28 September 2017, and again on 24 – 25 October 2017, when some archaeological test excavation pits were inspected.

#### 3.1.2 Spatial Data

The investigation relied heavily on detailed topographic data and aerial photography. Airborne Laser Scanning (ALS), also known as Light Detection and Ranging (LiDAR), data were acquired from a fixed wing aircraft on 9 and 12 August 2016. The data were supplied by MACH Energy as point data clouds covering the entire Mount Pleasant area and focus Study Area. Vertical accuracy was  $\pm 0.1$  m Standard Error (68% confidence interval) and horizontal accuracy was  $\pm 0.27$  m Standard Error (68% confidence interval).

Digital aerial photography at 0.25 m  $\times$  0.25 m pixel resolution flown in August 2016 at the same time as the LiDAR survey was available for the entire Mount Pleasant area and focus Study Area. A second set of aerial imagery was available at 0.5 m  $\times$  0.5 m pixel resolution dated 16 July 2017.

#### 3.1.3 Geology Data

Geology of the focus Study Area was mapped by Department of Mineral Resources, Sydney in 1983 as Muswellbrook 1:25 000 Geological Map 9033-II-N (Summerhayes, 1983). A scanned digital copy of this map version was obtained from Resources & Energy NSW, Department of Planning & Environment (<https://www.resourcesandenergy.nsw.gov.au/miners-and-explorers/geoscience-information/products-and-data/maps/coalfield/muswellbrook-125-000-geological-map>).

#### 3.1.4 Soils Data

The characteristics of the soils of the focus Study Area were mapped at 1:250,000 scale in hard copy by Kovac and Lawrie (1991). This map provides general information at a regional level. A compilation of all 39 published soil landscape maps that cover central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets, are available online from Office of Environment & Heritage Data Portal/Datasets/Soil Landscapes of Central and Eastern NSW (<http://data.environment.nsw.gov.au/dataset/published-soil-landscapes-of-central-and-eastern-nsw37d37>). Soil landscape units are individualised by unique combinations of soil type, topography, geology, geomorphic process containing variations in vegetation, land use, existing erosion/land degradation and constraints to development. The land and soil attributes in this product were predominately assessed using field observations, remote sensing interpretation (satellite, radiometric and ADS40) and limited laboratory analysis where available.

### 3.2 Terrain Analysis

Geomorphology is concerned with both physical form and process. Process involves the dimension of time, so tends to be more difficult to measure and model than form. For this reason, geomorphologic assessments often interpret process on the basis of an analysis of physical form. Terrain analysis is concerned with the automated analysis of landforms using digital elevation data sets. The analysis involves application of algorithms within a Geographic Information System (GIS) at detailed scales over wide areas to map characteristics of interest (e.g. Gardner et al., 1990; Wilson and Gallant, 1998; Wilson and Gallant, 2000; Lindsay, 2005; Drăguț and Blaschke, 2006; MacMillan and Shary, 2009). Using an example from the Southern Coalfield, Palamara et al. (2006) illustrated the application of terrain analysis to underground coal mine impact assessment. Similar methods were used in this Technical Report.

The purpose of undertaking terrain analysis for this investigation was to distinguish the geomorphic forms of alluvial floodplain, colluvial slope and hillslopes of residual soil. Residual soil is formed from the weathering of the bedrock below. Colluvial soil is formed from the weathering of bedrock which then moves downslope by gravity.

Alluvial soil is formed from sediment deposited by flowing streams. Mapping of the three forms can provide clues to landform formation.

Terrain analysis was undertaken using two different GIS applications: Global Mapper™ V15.2.5 25 June 2014 Build (Blue Marble Geographics), and SAGA (System for Automated Geoscientific Analyses) GIS (<http://www.saga-gis.org>; Institute of Geography, Section for Physical Geography, Klimacampus and University of Hamburg, Germany) (Cimmery, 2007-2010; Böhner et al., 2006; Böhner et al., 2008).

### 3.2.1 Topography (Digital Elevation) Definition

The topography of the wider Study Area was defined by a 2016 LiDAR derived Digital Elevation Model (DEM), with the supplied thinned ground strike point cloud data converted to a 2 m x 2 m elevation grid. This grid was resampled to produce a 25 m x 25 m DEM that was suitable for classification of broad-scale landform features. For example, the slope and slope direction of broad landforms are better characterised at a 25 m grid than a 2 m grid, with a 2 m grid being more suitable for characterising local-scale surface variation. The resolution of the 2 m x 2 m LiDAR grid was not improved by the resampling.

### 3.2.2 Landform Classification

A number of different methods have been proposed for classifying landforms based on topographic data (e.g. Schmidt and Hewitt, 2004; Iwahashi and Pike, 2007; Niculiță and Niculiță, 2011). Landform classification can provide objective assistance to stream type classification, and to delineate hydrologic and geomorphic units such as valley bottoms (also known as floodplains, or alluvium) (Gallant and Dowling, 2003). The objectivity of automatic identification of floodplain extent is an advantage over subjective methods, although manual methods that combine hydraulic, slope and soils data can produce a rational and defensible result and might be preferred in cases where high quality and high resolution data are available.

In this report three methods of landform classification, all implemented in SAGA GIS, were investigated:

- Topographic Position Index (TPI).
- Terrain Surface Classification (TSC).
- Multiresolution Index of Valley Bottom Flatness (MRVBF).

After considerable effort applying these three classification systems to the wider Study Area, for the reasons explained below, TPI and TSC were not used, while MRVBF was utilised.

#### **Topographic Position Index**

The TPI was proposed by Guisan et al. (1999) and elaborated by Weiss (2001). An example application of TPI to landform classification in the Carpathian Mountains, Slovakia can be found in Barka et al. (2011). The TPI algorithm compares the elevation of each cell in a DEM to the mean elevation of a specified neighbourhood around that cell. Positive TPI values represent locations that are higher than the average of their surroundings, as defined by the neighbourhood (ridges). Negative TPI values represent locations that are lower than their surroundings (valleys). TPI values near zero are either flat areas (where the slope is near zero) or areas of constant slope (where the slope of the point is significantly greater than zero). The default SAGA radius settings are inner radius 100 m and outer radius 1000 m. Experimentation with data from the wider Study Area using different radius combinations made little difference to the result.

The TPI algorithm in SAGA divides the terrain into 10 landform classes:

- High ridges.
- Midslope ridges.
- Local ridges.
- Upper slopes.
- Open slopes.
- Plains.
- Valleys.
- Upland drainages.
- Midslope drainages.
- Streams.

These 10 classes can represent all landforms across the world, so a particular region will not necessarily have all of these classes present. On a global scale the wider Study Area has relatively subtle topography, and application of the TPI algorithms produced only two landform classes: open slopes and plains. A binary classification was too simplistic to be useful for aiding landform definition, so the TPI index was not used.

### ***Terrain Surface Classification***

The TSC was proposed by Iwahashi and Pike (2007). This unsupervised classification method divides an area into landform classes using three taxonomic criteria: slope gradient, local convexity, and surface texture. To subdivide increasingly subtle topography, grid cells sloping at less than the mean gradient of the input DEM are classified by designating mean values of successively lower-sloping subsets of the area being investigated (nested means) as taxonomic thresholds, thereby increasing the number of output categories from the minimum 8 to 12 or 16 (Table 1). According to Iwahashi and Pike (2007), the classifications reflect physiographic regions, geological structure, and landform as well as slope materials and processes; fine-textured terrain categories tend to correlate with erosional topography or older surfaces, coarse-textured classes with areas of little dissection. Iwahashi and Pike (2007) found that in Japan the resulting classes approximate landform types mapped from airphoto analysis, while in the Americas they create map patterns resembling Hammond's terrain types or surface-form classes; SRTM30 output for the United States compares favourably with Fenneman's physical divisions.

Experimentation with the TSC algorithm revealed that selecting a possible total of 8 classes produced only 2 classes in the wider Study Area, which is too broad to be useful. Thus, the algorithm was run with a possible 16 classes, which produced 4 classes of landform. These four classes were 4, 8, 12, and 16, which all belong to terrain series IV, coarse texture and low convexity (Table 1). Thus, the four landform classes identified by TSC in the wider Study Area were distinguished only by slope. As this result can be readily achieved by measuring slope alone, the TSC index was not used.

**Table 1. The 16 landform classes of the terrain surface classification algorithm of Iwahashi and Pike (2007).**

Surface geometry			Terrain classes			
Terrain series	I	fine texture, high convexity	1	5	9	13
	III	fine texture, low convexity	3	7	11	15
	II	coarse texture, high convexity	2	6	10	14
	IV	coarse texture, low convexity	4	8	12	16

### ***Multiresolution Index of Valley Bottom Flatness***

The MRVBF was proposed by Gallant and Dowling (2003) mainly as a tool to assist in the objective separation of floodplains from their surrounding hillslopes. The algorithm uses the two terrain attributes slope and elevation percentile. Slope is computed as a percentage or 100 times the tangent of the slope angle. Elevation percentile is a ranking of the elevation of a grid point with respect to the surrounding cells in a circular region of user-specified radius. It is calculated as the ratio of the number of points of lower elevation to the total number of points in the surrounding region. Low values indicate the point is low in the local landscape since most of the surrounding points are higher. The MRVBF algorithm was developed using 25 m resolution DEMs. Although Gallant and Dowling (2003) claimed that it can be applied at any resolution provided appropriate adjustments are made they noted that use of the algorithm at fine resolution DEMs is still under investigation. For the wider Study Area, the original DEM was converted to a 25 m x 25 m grid and the MRVBF algorithm was implemented in SAGA GIS which allowed use of the original parameter settings and way of interpreting the MRVBF value to define a valley bottom. According to Gallant and Dowling (2003), values of MRVBF less than 0.5 are not valley bottom areas; values from 0.5 to 1.5 are considered to be the steepest and smallest resolvable valley bottoms for 25 m DEMs; and flatter and larger valley bottoms are represented by values from 1.5 to 2.5, 2.5 to 3.5, and so on. Thus, there is no absolute threshold of MRVBF that unequivocally identifies a valley bottom, or floodplain, for all situations.

### **3.2.3 Relative Floodplain Height**

In profile, a floodplain has a down valley gradient, and in cross-section it can be relatively flat. If terraces are present, the floodplain will have a number of relatively flat surfaces at different elevations. Aeolian features (sand dunes) would also be distinguishable by their distinctive morphology and higher elevation relative to the surrounding floodplain. Lowland rivers like the Hunter River often have levees, where the crest of the levee is elevated relative to the rest of the floodplain. In this situation, in cross-section the floodplain slopes down from the levee crest towards the valley side slopes.

The gradient of a river means that, along a reach, absolute elevation is not an ideal attribute for mapping the downstream continuity of floodplain surfaces, finding sand dunes or for matching terraces on either side of the river. Cross-sectional relative floodplain height is the elevation of the floodplain surface relative to the elevation of the adjacent channel. Relative floodplain height of the wider Study Area was modelled by removing the down valley gradient. The down valley gradient of the floodplain was measured at 0.0175 metres per metre. A plane surface of this gradient was artificially generated in GIS and overlaid on the floodplain. Subtracting the sloping plane from the floodplain DEM and expressing elevation relative to the lowest elevation gave a de-trended DEM for the floodplain of the wider Study Area.

### **3.2.4 Slope**

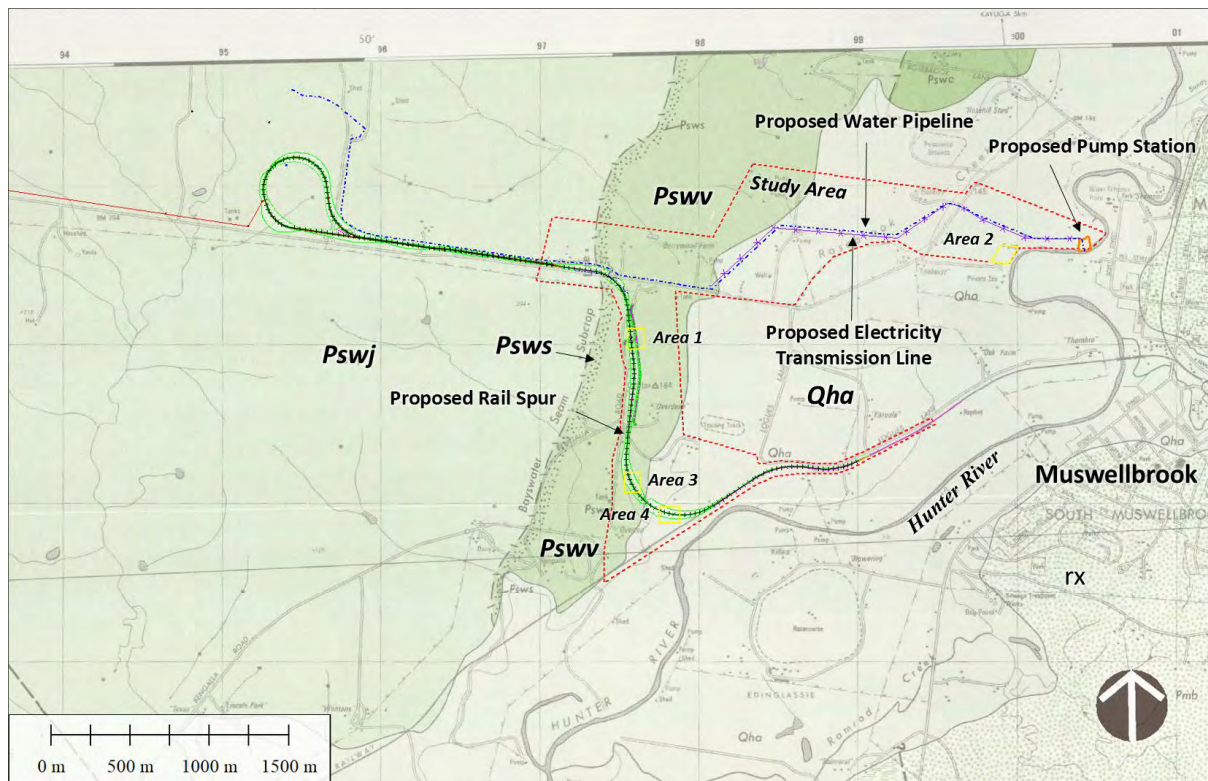
Low slope is indicative of alluvial landforms. Burton et al. (1994) suggested that floodplains on the Liverpool Plains could be delineated by land with a slope less than 2%, but this was suggested as a planning tool only. D  d (2013) suggested a more universal upper slope threshold of 4%, because rivers with gradient above 4% usually do not form floodplains. While slope could be a useful criterion for delineating floodplains, the threshold would be site specific and require local calibration.

## 4.0 Results

### 4.1 Geology

The majority of the focus Study Area is on the Hunter River Floodplain Quaternary Period *Qha* geology, comprising silty sand, sand and stream sediment (Figure 3). Part of the proposed rail loop alignment passes through Palaeozoic Era, Late Permian Period, Singleton Supergroup, Wittingham Coal Measures, Vane Subgroup, *Pswv* geology (Figure 3). This material is of fluvial origin, and comprises a rich coal bearing sequence interlensed with wedges of sandstone and siltstone (Summerhayes, 1983).

Test pits in Area 1 (Figure 3) revealed the presence of an unconsolidated very coarse gravel and cobble-sized sub-angular material underlying a thin regolith. The coarse material could have been of colluvial origin, or *in situ* weathered conglomerate. Although *Pswv* was not described as having conglomerate present, the immediately overlying (younger) Archerfield sandstone, *Psws*, was described as a 'Massive coarse-grained' blanket braidplain deposit, and above that, the widespread Jerrys Plains Subgroup, *Pswj*, included conglomerate wedges (Summerhayes, 1983).



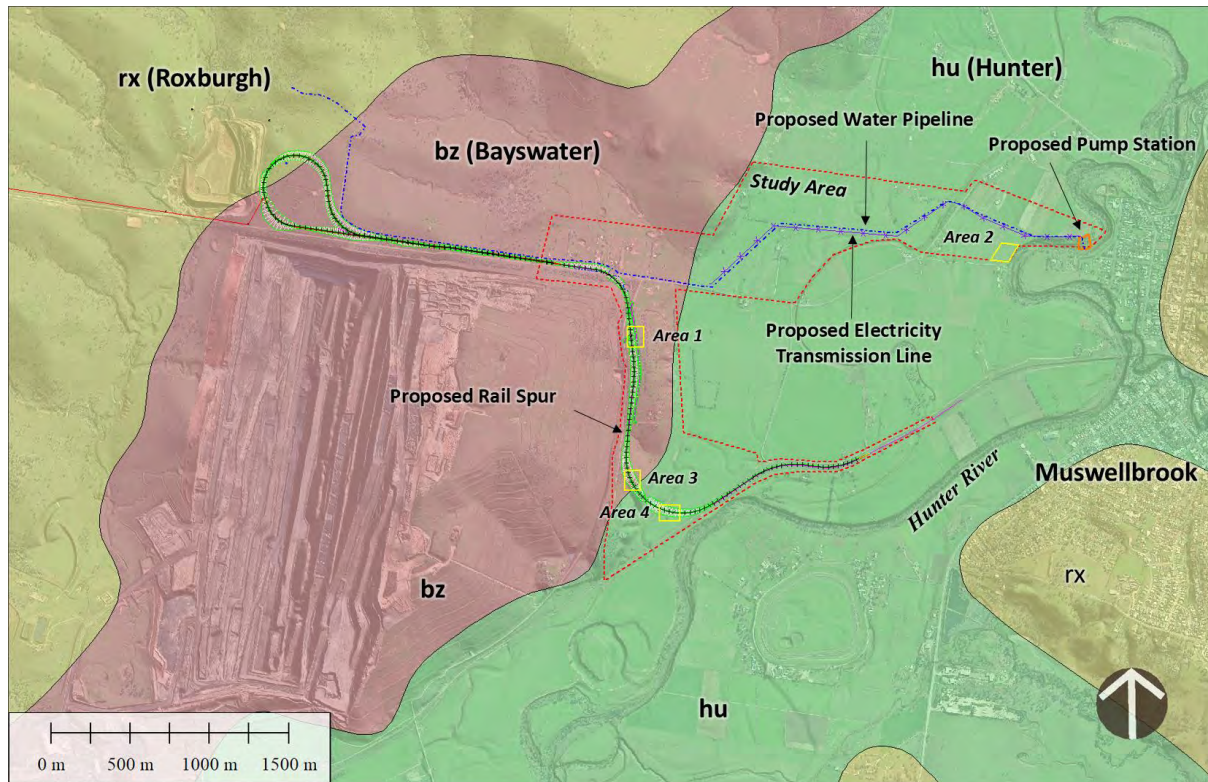
**Figure 3. Geological mapping of Summerhayes (1983) in the vicinity of the focus Study Area. Areas 1 – 4 indicate locations of archaeological soil test pits (this study).**

### 4.2 Soils

The majority of the focus Study Area is on the Hunter soil landscape (Hunter River floodplain) composed of alluvium (Figure 4, Table 2). Part of the proposed rail loop alignment passes through the Bayswater soil landscape, which contains texture contrast (duplex) soils (Figure 4, Table 2). The focus Study Area also passes through a small portion of the Roxburgh soil landscape (Figure 4, Table 2).

The location of the alluvium boundary mapped at 1:250,000 scale (Figure 4) is approximate, and inaccuracies of 10s or 100s of metres should be expected at specific locations.





**Figure 4. Soil mapping of Kovac and Lawrie (1991) in the vicinity of the focus Study Area. Areas 1 – 4 indicate locations of archaeological soil test pits (this study).**

**Table 2. Description of soil landscapes found in the focus Study Area.**

<b>Soil landscape</b>	<b>Australian Soil Classification Order</b>	<b>Geology</b>	<b>Topography</b>	<b>Soils</b>
Hunter (hu)	Tenosol (Alluvial)	Quaternary	Alluvial plains and terraces of the Hunter River and its tributaries, relief to 10 m, slopes to 3%.	Brown Clays and Black Earths on prior stream channels and on tributary flats. Chernozems on prior stream channels adjacent to Dartbrook and Brays Hill soil landscapes. Alluvial Soils on levees and flats adjacent to the present river bed. Red Podzolic Soils and Lateritic Podzolic Soils on old terraces. Non-calcic Brown Soils on terraces with Yellow Solodic Soils in drainage lines.
Bayswater (bz)	Sodosols (texture contrast between A and sodic B horizons which are not strongly acid)	Permian sandstone, shale, mudstone, conglomerate, and coal.	Undulating low hills, relief 40 – 60 m, slopes 3 – 10%.	Yellow Solodic Soils on slopes, with Alluvial Soils in drainage lines. Yellow Solodic Soil-Rd-brown Earth intergrades also occur. Brown and Yellow Earths and Prairie Soils in some drainage lines. Red and Yellow Podzolic Soils and Brown Podzolic Soils on slopes.
Roxburgh (rx)	Podosols	Sandstone, shales, mudstone, conglomerate and coal.	Undulating low hills and undulating hills with elevations of 80 m – 370 m.	Yellow Podzolic Soils on upper-to mid-slopes with Red Solodic Soils on more rounded hills. Lithosols occur on crests. Brown Podzolic Soils occur on slopes of conglomerate associated with flat pavements. Yellow Soloths have been recorded in some gullies.

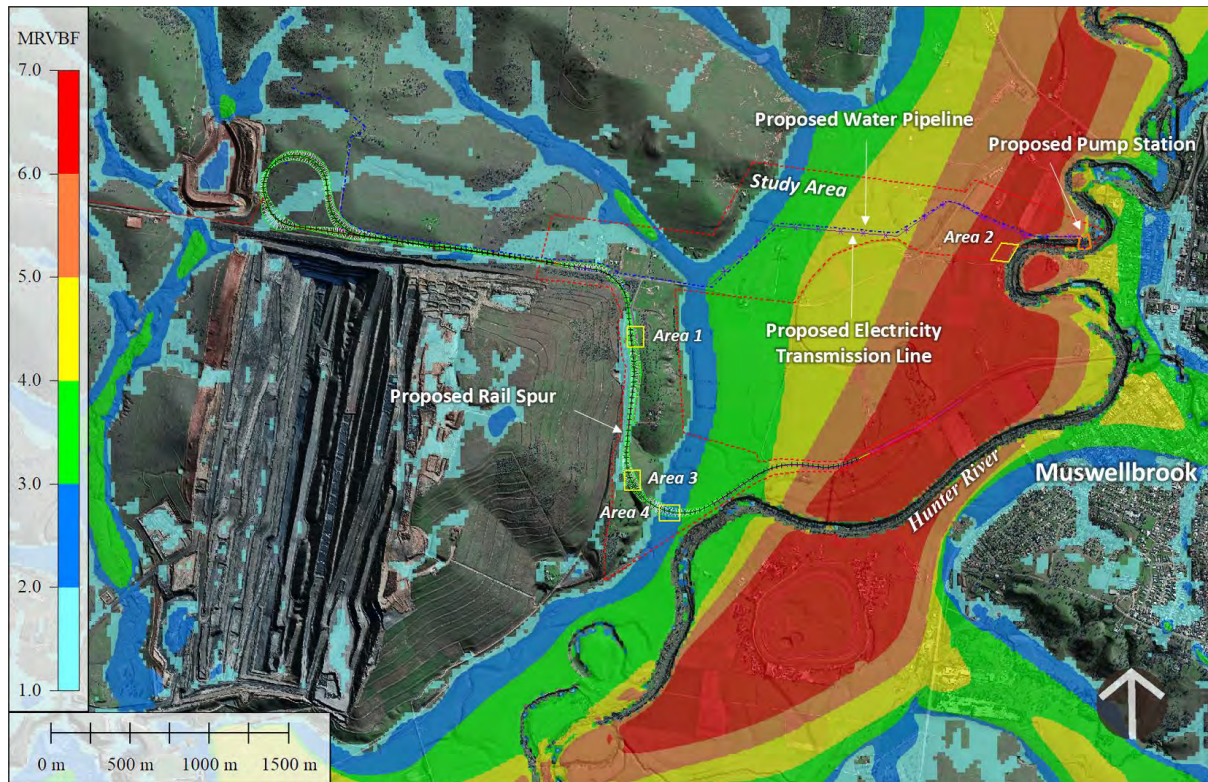
Source: Kovac and Lawrie (1991)

## 4.3 Terrain Analysis

### 4.3.1 MRVBF

The MRVBF distinguished the floodplain from the slopes, with a value of around 2.0 – 3.0 separating alluvial floodplain landforms from bordering hillslopes. The MRVBF 2.0 isoline corresponds reasonably well with the mapped Hunter soil landscape (Figure 4). Soils on steeper sloping land with MRVBF values lower than 1.0 are likely to be residual (formed in situ). Side slopes with values of MRVBF greater than 1.0 and less than 3.0 could correspond with colluvium. The landform of the Bayswater soil landscape could be described as hills of residual soils divided by colluvial material. The proposed rail loop alignment passes through hillslopes and colluvial material, before crossing the Hunter River alluvium (Figure 5).





**Figure 5. MRVBF (Multiresolution Index of Valley Bottom Flatness) exceeding 1.0 in the vicinity of the focus Study Area. MRVBF index value calculated from 25 m grid from LiDAR elevation data. Areas 1 – 4 indicate locations of archaeological soil test pits (this study).**

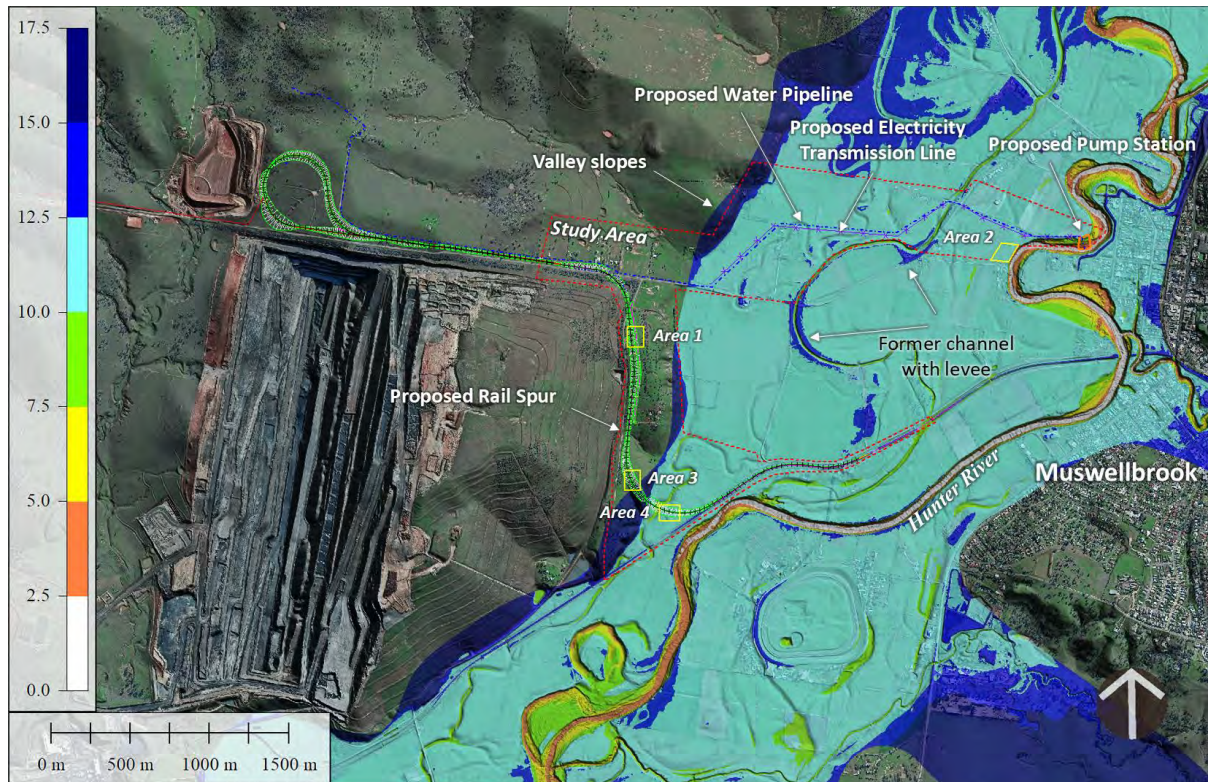
#### 4.3.2 Relative Floodplain Height

Relative floodplain height revealed an active floodplain migrating within a zone up to around 10 m – 12 m from the river bed (Figure 6). The rate of change in channel alignment is slow, with no changes apparent since 2009, the oldest photograph available on Google Earth.

Isolated lengths of former river channels on the floodplain are characterised by a subtle levee, with the crest about 0.5 m higher than the general floodplain level (Figure 6). The currently active channel generally does not have a pronounced levee. The interface of the floodplain and the right (western side) valley wall is generally well defined (Figure 6). There are no pronounced alluvial fan tributary deposits draped over the floodplain margin, nor are there obvious Aeolian features (sand dunes).

Areas with the highest potential for late-Pleistocene archaeological material would appear to be close to the interface of the hillslopes and the floodplain, where quantities of colluvial material might have occasionally washed off the slope during extreme rainfall events and buried archaeological material with sediment too coarse to be rapidly removed by floodwaters. Any archaeological material, if present, would be associated with sediment buried beneath a layer of more recent sediment. Note that while the sediment beneath these deposits would have remained undisturbed in historical times, it could have previously been disturbed by floods.

Also note that flood plain areas have been mapped based on landform. A separate flooding analysis is being undertaken for final design purposes.

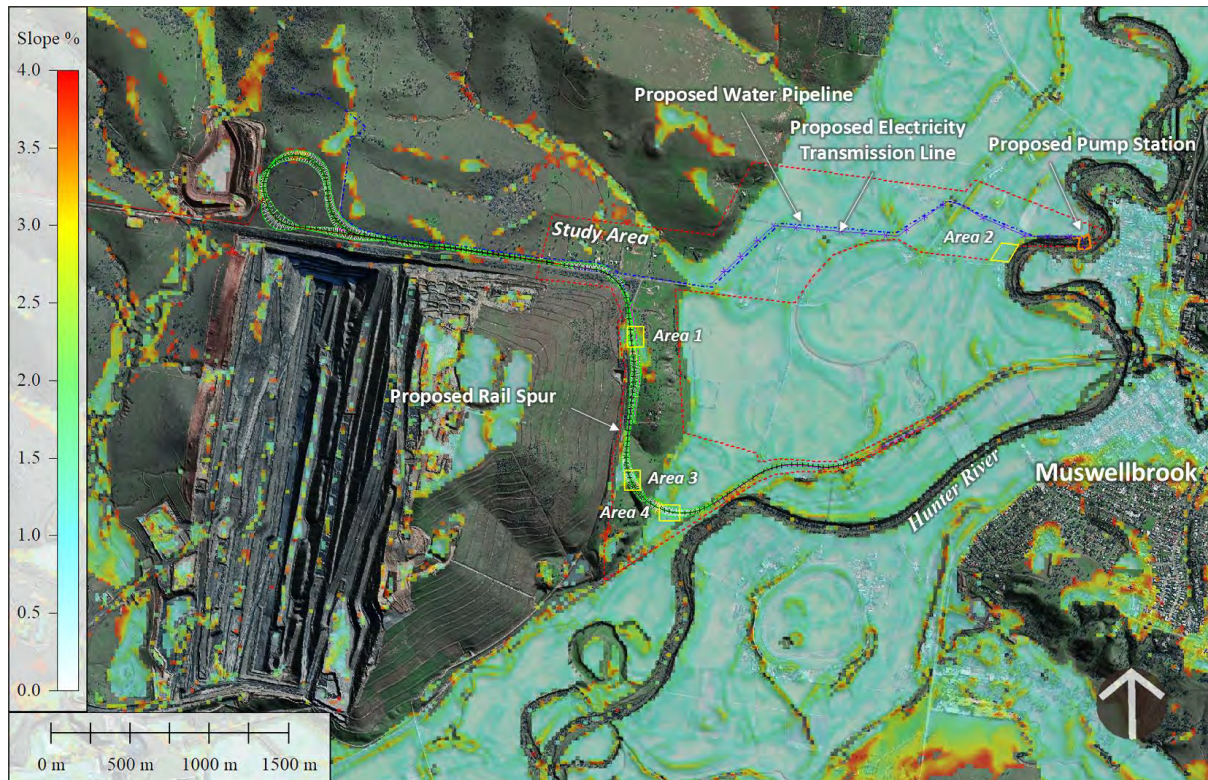


**Figure 6. Relative floodplain height (on 2 m grid) of the Hunter River for the Hunter soil landscape polygon in the vicinity of the focus Study Area. Height is relative to the lowest elevation of the channel, with down valley slope de-trended from the elevation data. Maximum relative height exceeded 17.5 m on some valley slopes within the depicted area. Areas 1 – 4 indicate locations of archaeological soil test pits (this study).**

#### 4.3.3 Slope

The Hunter River floodplain in the vicinity of the focus Study Area has a slope less than 4%, which clearly distinguishes this landform element from the adjacent steeper hillslopes (Figure 7).





**Figure 7. Slope of land less than 4% (on 25 m grid) of the Hunter River in the vicinity of the focus Study Area. Areas 1 – 4 indicate locations of archaeological soil test pits (this study).**

#### 4.4 Soil Excavation Test Pits

The four geomorphic situations identified by Dean-Jones and Mitchell (1993, pages 39, 63 - 64) favouring the preservation of older open sites in the central lowlands of the Hunter Valley were not present in the focus Study Area. The majority of the focus Study Area was on floodplain alluvium which would have been extensively reworked over the Holocene, so it has low potential for finding in situ archaeological material. It would be possible to find recent-Holocene age material within the upper horizon of floodplain alluvial deposits that are located in relatively hydraulically protected areas not recently reworked by floods and close to conveniently accessible water sources, such as active or recently active shallow former channels. The margin of the floodplain has some potential for colluvial material to have washed down from side slopes and buried and then preserved Pleistocene archaeological material. Another situation that could favour the preservation of older open sites would be natural levees on older areas of the floodplain, indicated by terraces. However, the former channels in the focus Study Area were not on elevated terraces. There was no evidence of features of Aeolian origin on the floodplain.

Test excavation pits were located at four locations within the focus Study Area. Figure 4, Figure 5, Figure 6 and Figure 7 show the locations of the test pits relative to soils and landforms. Each of the four locations had multiple pits. The sites and representative pits were inspected during the excavation process.

Area 2 was located on alluvial landform close to the Hunter River (Figure 4 and Figure 5). There was a very subtle levee adjacent to the river, but otherwise it was relatively featureless.

Areas 1 and 3 (Figure 8) were located on an area identified using terrain analysis as the top of a low hill with the soil possibly residual weathered conglomerate, or a thin soil overlying very old colluvial material.

Area 4 (Figure 8) was immediately downslope of the adjacent valley side, close to the Hunter River, and also adjacent to a former channel. On the basis of geomorphological analysis, the sites within Area 4 were judged to have the highest potential for archaeological material, as there was potential for burial by coarser material sourced from the nearby hillslope, and the sites were close to conveniently accessible water.



Figure 8. Locations of the three areas of test excavation pits on the western side of the focus Study Area.

## 5.0 Conclusion

A review of literature, analysis of terrain data and field inspection was undertaken with the objective of providing an opinion on: (i) the recent (< 50,000 years) landscape formation history in the vicinity of the proposed Modification, and (ii) areas in the vicinity of the proposed Modification that offer potential for finding preserved sub-surface evidence of Aboriginal occupation. On the basis of a published theory of the formation of duplex soils found on the hillslopes of this area, it is concluded that the likelihood of finding preserved sub-surface evidence of late-Pleistocene Aboriginal occupation on hillslope site is low. Most of the A horizon sedimentary material on the slopes is probably less than 3,000 years old. It might be possible to find Holocene-age material but it is likely to have been dispersed from its original location. The floodplain close to the Hunter River, near the proposed site of the Hunter River water pumping station would have low potential for sub-surface evidence of Aboriginal occupation due to a long history of sediment reworking. The river channel itself would have very low potential for archaeological material due to the high frequency of disturbance due to high flow events.

Areas with the highest likelihood of finding preserved sub-surface evidence of Aboriginal occupation would be on the western side, near the interface of the floodplain and colluvial hillslope, and adjacent to an accessible water source.

The results of terrain analysis, and inspection of test excavation pits were consistent with the theory of soil formation and potential to contain archaeological materials outlined by Hughes (1999), Hughes (2000), Hughes (2003) and Hughes et al. (2014). According to that theory, the likelihood of finding preserved sub-surface evidence of late-Pleistocene Aboriginal occupation anywhere in the focus Study Area is very low. It would be possible to find material of a more recent age although it would most likely be small fragments broken during the process of dispersal from their original location through washing downslope or being transported by floods.



## 6.0 References

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## Appendix 10 – Cadastral Information

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