

some sites are considered more important due to their ability to provide scientific or cultural information). It may be assessed at local, regional, state and national levels.

In addition to the above criteria, the following have also been used for sites within the Hunter Valley region:

- *Connectedness* – this is an assessment of the relationship between sites, particularly different types of sites, where a process or sequence of activities can be discerned. For example, a quarry site (location where stone is extracted), an adjacent heat treatment pit and an adjacent knapping floor, are sites which may be linked sequentially in the process of producing stone tools. The process represented in this example is stone procurement (quarry), heat treatment (improving the flaking qualities of the stone) and artefact manufacture (knapping floor);
- *Integrity* – the current condition of the site influences its integrity. Sites which have been highly disturbed by landuse practices or even natural erosion and sheet wash have less integrity than sites which have not been subject to such processes; and
- *Complexity* – this relates to the number of features and/or variety of artefact types present at a site. With relation to artefact scatters, a wide variety of raw materials used, or high numbers of tools relative to flakes are characteristics which would increase the assessed complexity of a site.
- *PAD (Potential for Archaeological Deposit)* – this is a measure of the potential for subsurface artefacts to be present and thus constitute an archaeological deposit.

7.2.2 Aboriginal Cultural Significance

This area of assessment concerns the value(s) of a site or feature to a particular community group, in this case the local Aboriginal community, specifically the traditional owners. Aspects of social significance are relevant to sites, items and landscapes that are important, or have become important, to the local Aboriginal community/traditional owners. This importance involves both traditional links with specific areas as well as an overall concern by Aboriginal people for sites and landscapes generally and their future protection. Aboriginal cultural significance may include social, spiritual, historic and archaeological values. Aboriginal cultural significance assessments can only be made by the relevant Aboriginal communities (traditional owners).

7.3 Assessment of Scientific Significance

In order to assess significance, each archaeological site has been ranked against the above criteria. They are ranked according to low, moderate or high and are ranked within a local and regional context. Each ranking is associated with a score; low (score=1), moderate (score=2), high (score=3). For this report overall significance is defined in the following categories:

- Low significance, score=14-19
- Moderate significance, score=20-29
- High significance, score=30-42.

Of these four sites/PADs identified (see Figure 7.1 and Table 7.1), one was assessed to have high significance overall, one was assessed to have moderate significance, and two were assessed to have low significance.

It should be noted that the assessment of scientific significance for sites/PADs recorded by other archaeological investigators is based on information provided in their reports; however, an updated assessment of the “cultural PAD” identified by MCH has been made in light of the results of the Hexham Relief Roads survey, particularly the identification of site HS1 (see Table 7.1 and Section 7.3.4).

The shells (and rounded stone) located during the survey on 31/08/11 have been brought in with fill material. There is, therefore, no potential for stratified *in situ* subsurface archaeological deposit associated with these items, and they cannot be assessed for rarity value in this context. Therefore, they have not been included in this significance assessment.

Table 7.1 Assessed levels of scientific significance for identified sites and PADs.

	PAD		Representativeness		Rarity		Connectedness		Integrity		Complexity		Archaeological Research Potential		Overall Score	Overall Significance
	L	R	L	R	L	R	L	R	L	R	L	R	L	R		
HS1	3	2	3	2	3	2	1	1	2	1	3	2	3	2	30	High
38-4-0325	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	Low
Rise of land near Woodlands Close	2	1	1	1	1	1	1	1	1	1	1	1	2	1	16	Low
"Cultural PAD" (MCH 2011)	2	1	2	1	2	1	1	1	2	1	2	1	2	1	20	Moderate

NB: L=Local, R=Regional

7.3.1 Site HS1 – Open Camp Site

Evidence of substantial Aboriginal heritage material below the surface of land on the margins of Hexham Swamp was identified at site HS1. Although the site (and its potential extent) has been disturbed in certain areas by vehicle use, installation of pipelines and electricity lines, and pastoral activities, there are areas that are relatively undisturbed. There is therefore potential for relatively intact and substantial archaeological deposit, particularly in relatively undisturbed areas. The artefacts at the site are representative of other sites in the local landscape, and given the substantial number of artefacts and different types of raw materials, the site is considered to have high significance in terms of representativeness, rarity and complexity for the local context, and moderate significance for the regional context. The site is not particularly connected to another site, such as a quarry and therefore has low ranking in terms of connectedness. It is also notable that the low-lying swamp margin/creekline landform of this area was not expected to contain such an extensive site, given the predictive model of the area, which has generally considered that the low-lying land of Hexham Swamp would have been unfavourable for camping because of water saturation. The site therefore has rarity value and the potential to contribute valuable knowledge of the Aboriginal occupation of the area. The site is therefore assessed to have high significance with regards to archaeological research potential for the local context, and moderate significance for the regional context. Overall site HS1 is assessed to be of **high archaeological significance**.

7.3.2 Site 38-4-0325 – Open Camp Site

AHIMS Site #38-4-0325 is recorded as comprising three flaked mudstone/tuff artefacts, on the face of an embankment. The area was considered to have been largely disturbed by construction of previous roads and dumping of rubbish. The artefacts at this site are representative of other sites in the local landscape and are not rare. This site has low significance in terms of representativeness and rarity for both local and regional contexts. This site is not particularly connected another site, such as a quarry and therefore has low ranking in terms of connectedness. The small number and type of artefacts and raw materials does not constitute a complex site and there is little potential for an intact archaeological deposit. The site was therefore assessed to have low significance with regards to archaeological research potential. Overall site 38-4-0325 is assessed to be of **low archaeological significance**.

7.3.3 Rise of Land near Woodlands Close

The rise of land on the north-eastern side of the intersection of Woodlands Close and the New England Highway appears to be naturally elevated above the level of the swamp. Although this land would have been disturbed to some extent by construction of the Highway, it may have presented a good outlook over the swamp, and been favourable for camping. There is some potential for relatively intact archaeological deposit, although it is only a small area that appears to be relatively undisturbed. Based on the artefacts located at nearby HS1, any artefacts that may be present below the surface in this area are likely to be representative of other sites in the local landscape and not particularly connected to another site, such as a quarry. Given the small size of the area it is considered to have low significance in terms of representativeness, rarity, complexity and connectedness for both local and regional contexts. The site is assessed to have moderate significance with regards to archaeological research potential for the local context, and low significance for the regional context. Overall this area is assessed to be of **low archaeological significance**.

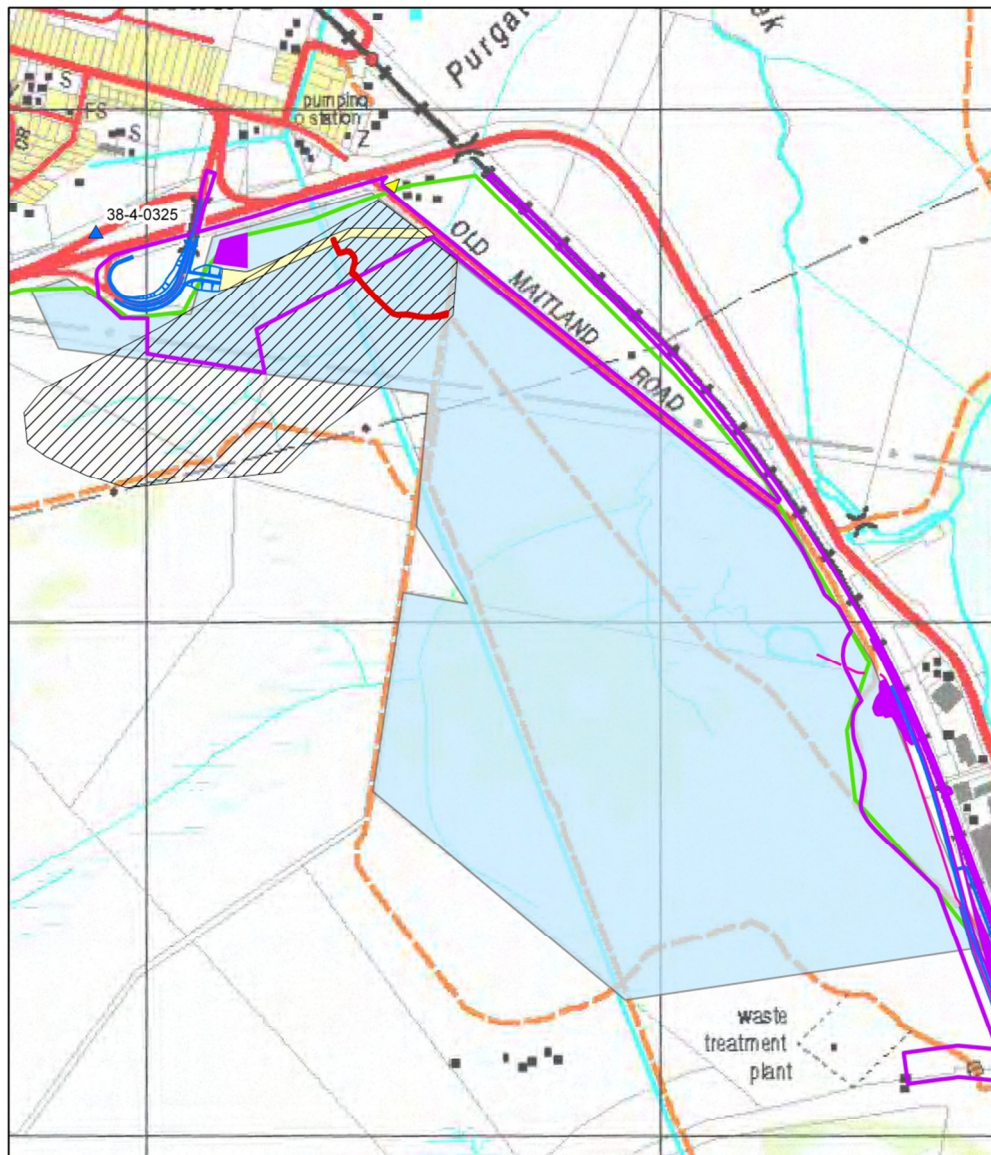
7.3.4 "Cultural PAD"

The cultural PAD was identified by MCH on the basis of the relative lack of disturbance, and the importance of the area to the registered Aboriginal stakeholders, who considered that the area was likely to contain evidence of Aboriginal occupation. The area was considered to be of low research potential and scientific significance, given the predictive model of the area, which considered that the low-lying land of Hexham Swamp would have been unfavourable for camping because of water saturation. However, the results of the survey for the Hexham Relief Roads project have provided supporting evidence for the Aboriginal occupation of this low-lying area of cultural PAD. There is some potential for relatively intact archaeological deposit of some rarity and complexity throughout the cultural PAD area, as the landform is the same as that in which site HS1 was identified. Based on the artefacts located at nearby HS1, any artefacts that may be present below the surface in this area are likely to be representative of other sites in the local landscape and not particularly connected to another site, such as a quarry. The site was originally assessed to have low significance with regards to archaeological research potential for the local and regional contexts; however, in light of the results of the Hexham Relief Roads project and the identification of site HS1 in the same landform, overall this area has now been assessed to be of **moderate archaeological significance**.

7.4 Assessment of Cultural Significance

This area of assessment concerns the value(s) of a site or feature to a particular community group – in this case the local Aboriginal community, specifically the traditional owners. Aspects of social significance are relevant to sites, items and landscapes that are important, or have become important, to the local Aboriginal community/traditional owners. This importance involves both traditional links with specific areas as well as an overall concern by Aboriginal people for sites and landscapes generally and their continued protection. Aboriginal cultural significance may include social, spiritual, historic and archaeological values. Aboriginal cultural significance assessments can only be made by the relevant Aboriginal communities (traditional owners).

Registered Aboriginal stakeholders who were consulted during this project have indicated that the study area, including site HS1, has special significance to them as a place in the vicinity of Hexham Swamp and the Hunter River, which were significant resources to Aboriginal people in this area, and to which they still feel a connection.



Legend

- HS1 (approx visible extent)
- HS1 (possible approx potential extent)
- Rise of land on Woodlands Close
- "Cultural PAD" identified by MCH (2011)
- Hexham Swamp margins (approx)
- Indicative Tarro Interchange Access Road
- Study Area (Project Signalling Area)
- Relief Roads
- Tarro Interchange Access
- Access Road Options
- Proposed Compound Areas
- Swale Drain

0 75 150 300 450 600 Metres

Topographic data © Copyright Commonwealth of Australia (Geoscience Australia) 2001
Horizontal datum: GDA94/MGA Zone 56



Figure 7.1 Detail of sites/PADs assessed for scientific significance.

8 Cumulative Assessment – Queensland Rail National Train Support Facility

8.1 Preamble

Queensland Rail (QR) National is currently preparing plans for a Train Support Facility (TSF) and adjoining industrial development located immediately to the west of the Relief Roads. The layout and key features of both projects are shown in Volume 1 of the EIS for the Hexham Relief Roads project.

QR National is liaising with ARTC to co-ordinate the design and approval processes. As part of this study and report, the QR National 2008 Environmental Assessment Report (EAR) has been reviewed. Where updated (2011) reports are available, these have also been reviewed. Relevant documents reviewed comprise:

- Indigenous Outcomes (IO) (2008) *Indigenous Archaeological Assessment/Report: Proposed Train Servicing Facility, Development and Future Intermodal and Industrial Subdivision at 67 Maitland Road, Hexham NSW*. Consultancy report to Asquith & de Witt Pty Ltd.
- McCardle Cultural Heritage (MCH) (2011) *QR Hexham Redevelopment Project Part 3A: Indigenous Archaeological Due Diligence Assessment*. Consultancy report to ADW Johnson Pty Ltd.

8.2 Proposed Impacts

The proposed QR National development involves construction of the TSF, including some site filling and grading (MCH 2011:90). The northern part of the QR National project area, where the “cultural PAD” was identified, is to be protected as Environmental Land and not impacted by the development. The IO (2008) assessment did not locate any sites or other Aboriginal heritage constraints to the development.

Aboriginal sites/PADs that are proposed to be impacted by the both of these projects are:

- HS1; and
- The “cultural PAD” identified by MCH (2011) (see Figure 8.1) and its subsequent redefinition (see Figure 8.2; this redefinition is based on the extensive disturbance evident between the railway line and the access road, in the south west corner of the PAD).

AHIMS Site #38-4-0325 is not proposed to be impacted by either project, and will therefore not be discussed further.

No other Aboriginal sites/PADs have been identified within either of these projects or their vicinity. As such, the impact on Aboriginal heritage is relatively minor; however, these developments will still have a cumulative negative impact on the Aboriginal heritage of Hexham and the Newcastle/Hunter River region.

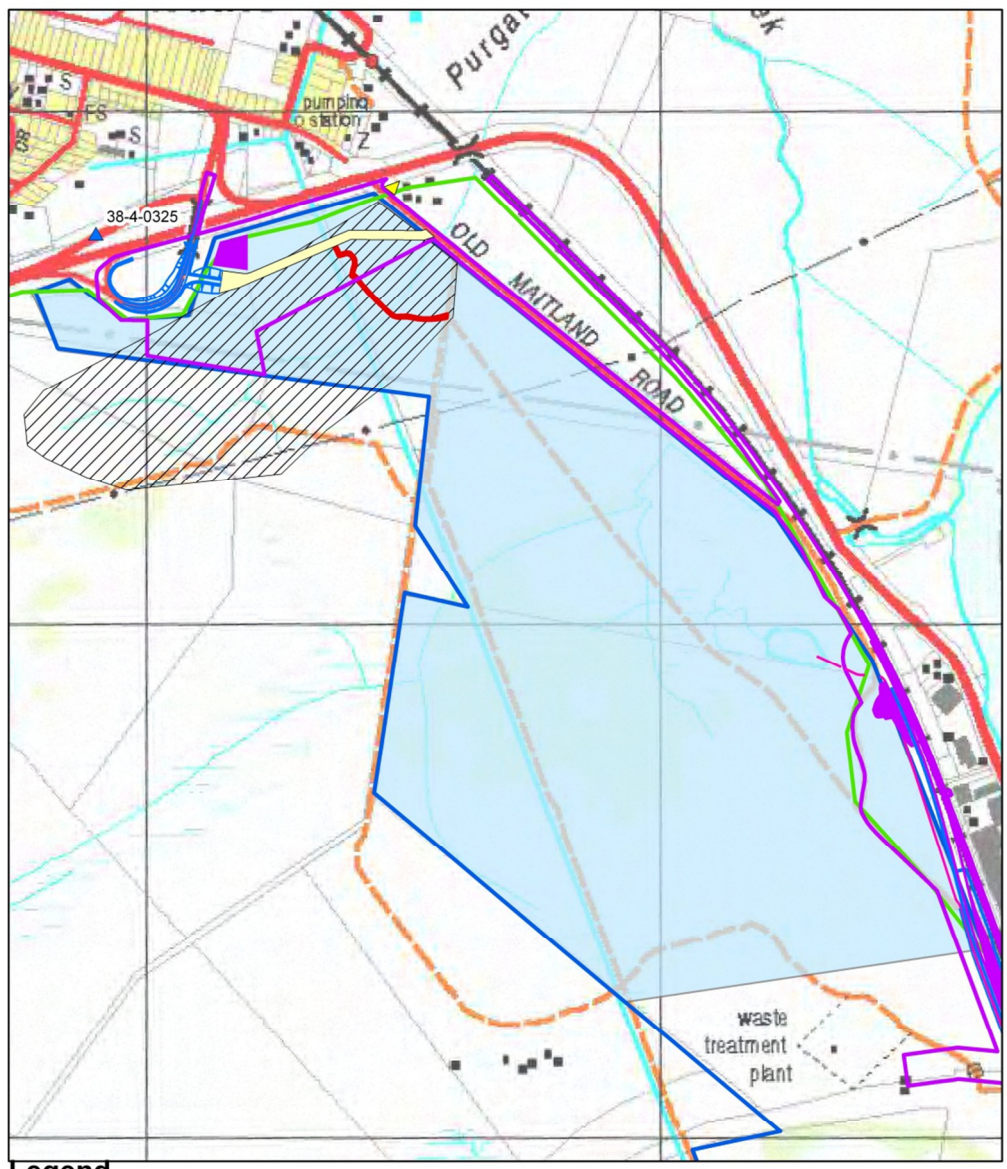
AMBS’ predictive modelling outlined in Section 5.3 identifies stone artefact sites as the most frequently occurring Aboriginal heritage site type in the local landscape. A review of the environmental and historic context of the local area suggests that the majority of such sites are likely to have been previously impacted and disturbed by past land clearing, development, construction and agricultural practices. As such, it has been determined that there is a low likelihood that *in situ* stone artefacts are present in the local region. This means that areas of archaeological sensitivity in areas that have been subject to minimal previous disturbance are of increasing value, and worthy of conservation.

Current and future developments in the local area are likely to impact primarily upon previously disturbed stone artefact sites, as well as PADs with varying degrees of previous disturbance, where it is not possible to avoid such impacts within their development planning and methodology. Mitigation measures described in Section 9.1 of this report take into account the scientific significance of similar site types identified within the local area, and make appropriate recommendations based upon the cumulative impacts of associated developments and regional rarity and representativeness.

8.3 Principles of Ecologically Sustainable Development

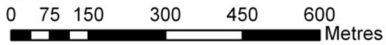
Under Section 2A(2) of the NPW Act, the principles of ESD need to be considered in the assessment of proposed impacts and in the formulation of conservation measures. In particular, intergenerational equity needs to be considered, allowing future generations access to the cultural and environmental diversity of the present generation. These principles should be considered in reference to the scientific and cultural significance of the Aboriginal sites.

While an assessment of scientific significance has identified sites of low, moderate and high local significance, none of the sites were assessed to have state significance. It should also be recognised that the development is limited to specific impacts within the Project area, and that parts of the least disturbed areas in the north-east section of the Project area, including the visible extent of HS1, are not be impacted by the proposed development works, and will be preserved for future generations. The alignment of the access road in this area has been designed to avoid impact to the visible extent of site HS1, and to avoid as much impact as possible to the potential extent of site HS1. In addition, the proposed impacts have been modified from the original design to avoid the rise of land on the corner of Woodlands Close, and thus preserve any potential subsurface Aboriginal cultural heritage material. The Hexham Relief Roads design also avoids the majority of the Cultural PAD area. To off-set the proposed impacts, it is proposed that any impacts to areas of HS1 or the Cultural PAD are subject to archaeological investigations, in the form of archaeological excavations. Information retrieved from such excavations will be analysed and interpreted in an excavation report, which will be archived with OEH and provided to registered Aboriginal stakeholders. Not only will the results of the excavations therefore be available to future generations, but the report will contribute to the understanding of past Aboriginal occupation in the Newcastle area, particularly around Hexham Swamp and the Hunter River. The proposed off-sets are not only considered to maintain intergenerational equity, but also to enhance our understanding of certain aspects of Aboriginal heritage.



Legend

- | | |
|--|---|
| HS1 (approx visible extent) | Relief Roads |
| HS1 (possible approx potential extent) | Tarro Interchange Access |
| Rise of land on Woodlands Close | Access Road Options |
| "Cultural PAD" identified by MCH (2011) | Indicative Tarro Interchange Access Road |
| Hexham Swamp margins (approx) | Proposed Compound Areas |
| Study Area (Project Signalling Area) | Swale Drain |
| QR National Study Area | |



Topographic data © Copyright Commonwealth of Australia (Geoscience Australia) 2001
 Horizontal datum: GDA94/MGA Zone 56

Figure 8.1 Location of sites/PADs to be impacted by the projects.

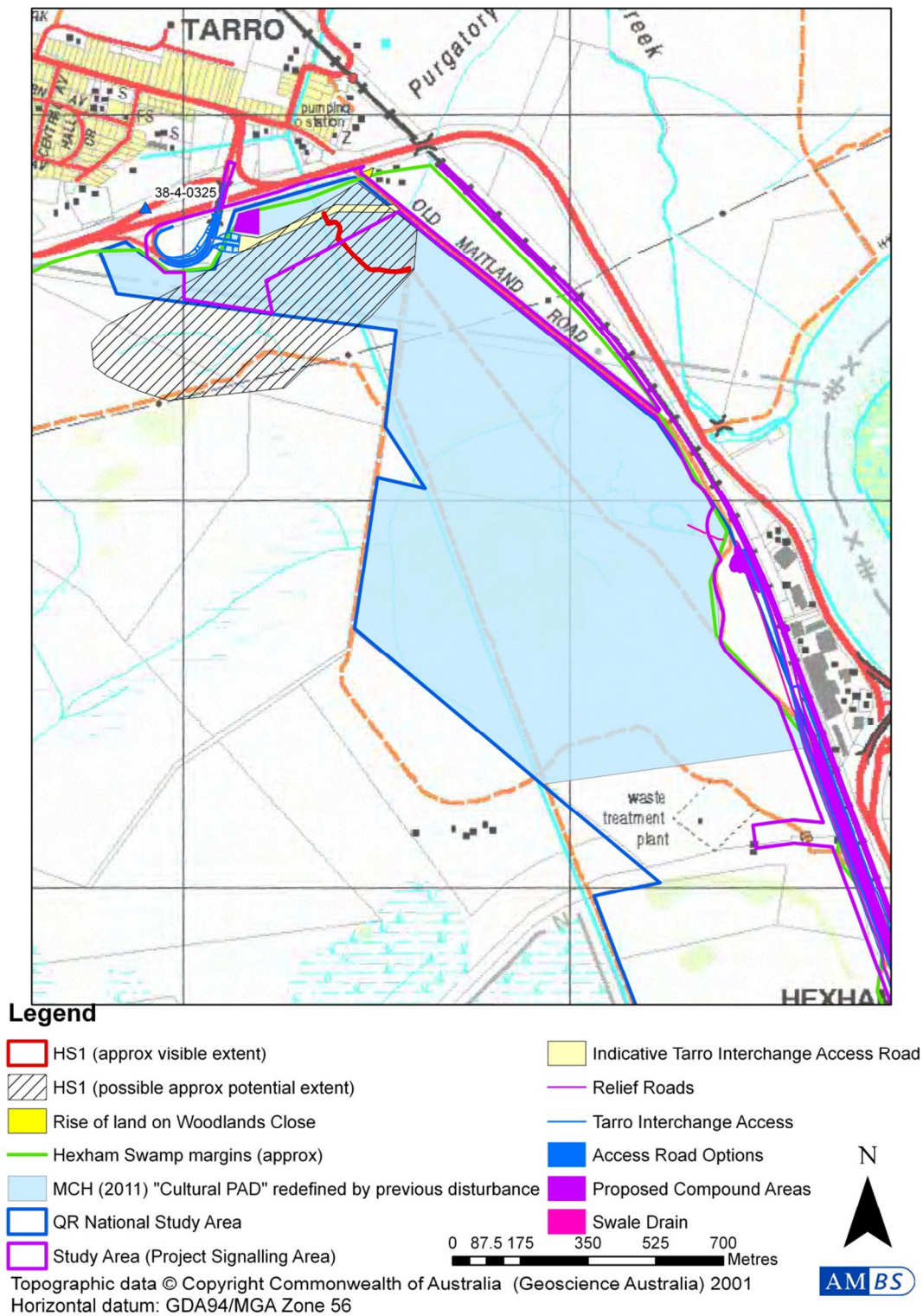


Figure 8.2 Location of sites/PADs to be impacted by the projects (with "Cultural PAD" redefined based on disturbance).

9 Conclusions and Recommendations

The proposed impacts on Aboriginal heritage arising from this project are outlined in Section 8.2 above. The following recommendations are based on these proposed impacts, as well as the statutory requirements, and the results of the background research, Aboriginal community consultation and archaeological field survey.

9.1 Recommendations

9.1.1 Aboriginal Heritage Management Plan

An Aboriginal Heritage Management Plan (AHMP) for the project is to be developed in consultation with the registered Aboriginal stakeholders, as part of the next stage of the approvals process, to ensure appropriate management of the Aboriginal heritage of the project area.

Recommendation 1

An Aboriginal Heritage Management Plan would be completed prior to the start of any works that could have an impact on Aboriginal heritage.

9.1.2 Site HS1

Approximately one-third of the visible and the potential extent of HS1 is located within the Hexham Relief Roads project area; however, the visible extent of HS1 and the majority of its potential extent is avoided by the access road and site compound. Given the high significance of the site, conservation is preferable. However, in the area of potential extent of site HS1 proposed to be impacted by the access road between Tarro Interchange and Woodlands Close, archaeological excavation of this section of site to be impacted (see Figure 8.2) is to be undertaken prior to or at the time of enabling works for the project. Such excavation would increase the current scientific knowledge of the region and provide an appropriate offset to the cumulative impacts on Aboriginal heritage arising from the development, ensuring that part of the site would not be destroyed without retaining the information it may hold for archaeological knowledge of the area and future research, particularly given the rarity of such an extensive site on low-lying land on the margins of Hexham Swamp, in contrast to the current archaeological predictive model. This excavation would also provide some mitigation of impacts to the cultural significance of the area, in accordance with the request of registered Aboriginal stakeholder fieldwork representatives. The purpose of the excavation is to collect, record and verify the extent of any subsurface Aboriginal heritage material which is to be impacted, to recover further knowledge of the Aboriginal archaeology of the area before it is impacted.

Recommendation 2

A program of archaeological test and salvage excavation is to be undertaken in the section of site HS1 proposed to be impacted (see Figure 8.2), prior to or at the time of enabling works for the project.

9.1.3 Rise of Land near Woodlands Close

The rise of land on the north-eastern side of the intersection of Woodlands Close and the New England Highway is not proposed to be impacted, and would therefore be conserved. It is unlikely that there would be any inadvertent impacts to this area from access by vehicles and equipment, as RMS has identified that access to the Hexham Relief Roads area would predominantly occur from the Tarro interchange, rather than from Woodlands Close. However, there would be a small amount of traffic onto Woodlands Close to construct the access road; therefore, care is to be taken in this area to avoid any inadvertent impacts caused by vehicles and equipment turning from/to the New England Highway, by designating the area a “no go zone”.

Recommendation 3

The rise of land near Woodlands Close is not proposed to be impacted. This area would be a designated no go zone.

9.1.4 “Cultural PAD” Identified by MCH (2011)

A small part of the “cultural PAD” identified by MCH lies within the study area, and is to be impacted by a site compound, the access road between Tarro Interchange and Woodlands Close, swale drains and a small part (in its southeast corner) by the relief roads and access road options (see Figure 8.2). The cultural PAD was originally assessed to have low significance; however, in light of the results of the Hexham Relief Roads project and the identification of site HS1 in the same landform, this area has now been assessed to be of moderate significance, and conservation is preferable. Mitigation of the proposed impact of the Hexham Relief Roads project would require archaeological excavation of the section of cultural PAD to be impacted, to be undertaken prior to or at the time of enabling works for the project. Such excavation would increase the current scientific knowledge of the region and provide an appropriate offset to the cumulative impacts on Aboriginal heritage arising from the development, ensuring that part of the PAD would not be destroyed without retaining the information it may hold for archaeological knowledge of the area and future research. Aboriginal field representatives (who identified the high cultural significance of the “cultural PAD” area) were also in favour of excavations in this less disturbed area on the margins of Hexham Swamp, and the excavation would thus also provide some mitigation of impacts to the cultural significance of the area. The purpose of the excavation is to collect, record and verify the extent of any subsurface Aboriginal heritage material which is to be impacted, to recover further knowledge of the Aboriginal archaeology of the area before it is impacted.

Recommendation 4

A program of archaeological test and salvage excavation would be undertaken in any section of the Cultural PAD (as redefined on the basis of previous disturbance; see Figure 8.2) proposed to be impacted, prior to or at the time of enabling works for the project.

9.1.5 General Recommendations

The registered Aboriginal stakeholder representatives who participated in the survey expressed a desire to collect the rounded stone and the shell material located in fill material near the southern end of the proposed relief roads area, prior to any development works in this area. Although the rounded stone is outside of the study area, it is within 15m of a proposed site compound and therefore may be inadvertently impacted by vehicles or equipment. The shell material is within the study area, 8m from an access road option and 15m from a relief road, and may therefore be impacted by signalling or other construction activities (Figure 6.6). Although these items are not considered to be archaeological sites with any archaeological potential, given the high cultural significance of the Hexham Swamp area to the local Aboriginal community/traditional owners, this is considered to be an appropriate cultural mitigation measure. The purpose of the collection is to collect and record this material for cultural reasons, before any potential impacts.

Recommendation 5

As a mitigation measure, registered Aboriginal stakeholders would be offered the opportunity to collect the rounded stone and the surface shell material seen during the survey in fill material near the southern end of the proposed relief roads area (in the locations identified in Figure 6.6), prior to any development works in this area. Any Aboriginal heritage material would be collected and recorded.

A keeping place for the Aboriginal heritage material collected from within the Hexham Relief Roads project area would need to be identified, as it would not be permissible for this material to be relocated within the project area, outside of identified impact areas. The registered Aboriginal community stakeholders are requested to nominate a keeping place or area for the material to be relocated, and it would be identified in the AHMP. In providing feedback on this report, registered Aboriginal stakeholders have also requested that all registered Aboriginal stakeholders be notified of any Aboriginal cultural heritage material that is uncovered during works; and that all construction personnel undertake Cultural Awareness Training as part of their site induction, to assist in the identification of any Aboriginal cultural heritage material during the works. It is recommended that these requests be addressed in the development of the AHMP.

Recommendation 6

A keeping place for the Aboriginal heritage material recovered from within the Hexham Relief Roads project area is to be nominated in consultation with the registered Aboriginal stakeholders, and identified in an AHMP, which would be developed in consultation with the registered Aboriginal stakeholders, as part of the next stage of the approval process. Other requests of the Aboriginal stakeholders would also be addressed in the AHMP.

Bibliography

- Andrews BR (2007) *Coal, Railways and Mines. The Story of the Railways and Collieries of J & A Brown (2nd edition)*. Iron Horse Press, Sydney.
- Archaeological & Heritage Management Solutions (AHMS) (2007) *Sandvik National Headquarters, Tomago, NSW: Aboriginal Heritage Impact Assessment in Support of an Environmental Assessment for a Part 3A Major Project Development Application*. Consultancy report to ATB Morton Pty Ltd.
- Attenbrow V (2003) *Sydney's Aboriginal Past: Investigating the Archaeological and Historical Records*. University of NSW Press, Sydney.
- Attenbrow V (2006) *What's Changing: Population Size of Land-Use Patterns? The archaeology of Upper Mangrove Creek, Sydney Basin*. *Terra Australis* 21. Australian National University, Canberra.
- Austral Archaeology (2006) *Archaeological Test Excavations, Lot 901, Beech Close, Fletcher, NSW*. Consultancy report to Coles Myer Property Developers Ltd.
- Baker N (1993) *Archaeological Testing of the RZM Pty Ltd Plant 9 Planned Sand Mine Run adjacent to Moffats Swamp, Richardson Rd, Medowie*. Consultancy report to RZM Pty Ltd.
- Bowdler S & Happ G (1982) *An Archaeological Survey of a Proposed Transmission Line Route between West Wallsend and Tomago, NSW*. Consultancy report to NPWS and NSW Electricity Commission.
- Brayshaw H (1981) *Archaeological Survey of Proposed Site of Tomago Aluminium Shelter near Hexham*. Consultancy report to Tomago Aluminium Co. Pty Ltd.
- Brayshaw H (1984) *State Highway No 23 – Archaeological Investigation at Lambton Heights, Newcastle, NSW*. Consultancy report to Cameron McNamara.
- Brayshaw H (1985) *Archaeological Survey: State Highway No 23 – West Charlestown Bypass*. Consultancy report to NSW Department of Main Roads.
- Brayshaw H (1986a) *Archaeological Survey of Two Proposed Coal Stockpile Sites at Hexham NSW*. Consultancy report to Longworth & McKenzie Pty Ltd for Coal & Allied Operations Pty Ltd.
- Brayshaw H (1986b) *Archaeological Survey in the Vicinity – Proposed National Highway, Wakefield to Minmi Road, West of Newcastle, NSW*. Consultancy report to Gutteridge, Haskins & Davey Pty Ltd for Department of Main Roads.
- Brayshaw H & Kerr R (2000) *Land at Link Road, Elernmore Vale, West of Newcastle: Archaeological Survey for Aboriginal Sites*. Consultancy report to Mirvac Homes.
- Dallas M (1982) *An Archaeological Survey on Kooragang Island, Newcastle NSW*. Consultancy report to BHP Engineering Sydney on behalf of Kooragang Coal Loader Ltd.
- Darwala-Lia (2001) *Review of Environmental Factors for Upgrade Works for Lake Macquarie Wastewater System*. Consultancy report to CH2M Hill.
- Dean-Jones P (1989) *Report of an Archaeological Survey at Glendale*. Consultancy report to Planning Workshop.

- Dean-Jones P (1990) *Newcastle Bight Aboriginal Sites Study*. Consultancy report to NPWS and National Estate Grants Committee.
- Dean-Jones P (1992) *State Highway 9 – New England Highway: Proposed Anderson Drive Interchange Archaeological Survey*. Consultancy report to RTA.
- Dyall L (1975) *Archaeological Excavation at Swansea (Permit A 3570)*. Consultancy report to NPWS.
- Effenberger S (1996) *Archaeological Survey and Assessment: Construction of the West Wallsend Sewage Transportation Scheme*. Consultancy report to Patterson Britton & Partners.
- Effenberger S (1997) *Glendale Proposed Athletics Facility: Archaeological Sub-surface Testing Preliminary Research Permit #SZ195 Lake Macquarie LGA*. Consultancy report to Lake Macquarie City Council.
- Effenberger S & Baker N (1996) *Archaeological Test Excavation and Significance Assessment: F3 Freeway, Black Hill, NSW (Newcastle LGA)*. Consultancy report to RTA.
- ERM (2005) *Sandgate Rail Culvert Outlet Drainage Works Aboriginal and Historical Heritage Assessment*. Consultancy report to Australian Rail Track Corporation.
- ERM (2010) *CTGM Stoney Pinch to Beresfield Upgrade: Hunter Water Corporation Stage 2 (Follow-On) Heritage Assessment*. Consultancy report to Hunter Water Corporation.
- ERM Mitchell McCotter (1996) *Archaeological Test Excavations: Proposed Holmwood Industrial Development, Beresfield South*. Consultancy report to Harper Somers Pty Ltd.
- Hiscock P (1985) The need for a taphonomic perspective in stone artefact analysis. *Queensland Archaeological Research* 2:82-95.
- Hiscock P (1986) Technological change in the Hunter River valley and the interpretation of late Holocene change in Australia. *Archaeology in Oceania* 21(1):40-50.
- Hiscock P (1993) Bondaian technology in the Hunter Valley, New South Wales. *Archaeology in Oceania* 28(2):64-75.
- HLA (1996) *Sub-surface Archaeological Testing at Lot 2 DP844711 near Minmi, Hunter Valley, NSW*. Consultancy report to Highland Country Pty Ltd.
- Holdaway S & Stern N (2004) *A Record in Stone: The Study of Australia's Flaked Stone Artefacts*. Museum Victoria and Aboriginal Studies Press, Victoria.
- Indigenous Outcomes (IO) (2008) *Indigenous Archaeological Assessment/Report: Proposed Train Servicing Facility, Development and Future Intermodal and Industrial Subdivision at 67 Maitland Road, Hexham NSW*. Consultancy report to Asquith & de Witt Pty Ltd.
- Insite Heritage (2003) *Archaeology Report for Proposed Residential Development Lots 59, 79 and 114, Cameron Park*. Consultancy report to Yarraman Developments Pty Ltd.
- Insite Heritage (2007) *Archaeological Assessment of Proposed Residential Subdivision, 272 Minmi Rd, Fletcher*. Consultancy report to Johnson Partners (NSW) Pty Ltd.

Jo McDonald Cultural Heritage Management (JMCHM) (1997) *Archaeological Survey of the Maryland to Shortland Rising Main, Hexham Swamp*. Consultancy report to CH2M Hill Australia and Hunter Water Corporation.

Koettig M (1987) *Monitoring Excavations at Three Locations along the Singleton to Glennies Creek Pipeline Route, Hunter Valley: Third Report on Archaeological Investigations along this Route*. Consultancy report to the NSW Department of Public Works.

Kuskie PJ (1994) *Further Archaeological Investigations of Lot 1 DP 559519, Thornton, NSW*. Consultancy report to GHD.

Kuskie PJ (1997) *An Aboriginal Archaeological Assessment of a Newcastle City Council Property at the Corner of Lenaghans Drive and John Renshaw Drive, Beresfield, Lower Hunter Valley, NSW*. Consultancy report to Newcastle City Council.

Kuskie PJ (2002) *An Aboriginal Archaeological Assessment of Lot 2 DP 873320, Black Hill, Lower Hunter Valley, NSW*. Consultancy report to PJ & SE Evans.

Kuskie PJ (2007a) *Chichester Trunk Gravity Main Upgrade between Tarro and Shortland: Preliminary Aboriginal Heritage Assessment*. Consultancy report to GHD Pty Ltd.

Kuskie PJ (2007b) *An Aboriginal Heritage Impact Assessment of the Proposed Freeway South Business Park at Beresfield, Hunter Valley, NSW*. Consultancy report to Hunter Land Pty Ltd.

Kuskie PJ and Kamminga J (2000) *Salvage of Aboriginal Archaeological Sites in relation to the F3 Freeway near Lenaghans Drive, Black Hill, NSW*. Consultancy report to the RTA.

Long A (2005) *Aboriginal Scarred Trees in NSW: A Field Manual*. Department of Environment & Conservation: Hurstville.

Matthei L E (1995) *Soil Landscapes of the Newcastle 1:100 000 Sheet (Allworth, Stockton, Maitland, Paterson)*. Department of Land & Water Conservation: Sydney.

McCardle Cultural Heritage (MCH) (2011) *QR Hexham Redevelopment Project Part 3A: Indigenous Archaeological Due Diligence Assessment*. Consultancy report to ADW Johnson Pty Ltd.

McCarthy FD & Davidson FA (1943) The elouera industry at Singleton, Hunter River, N.S.W. *Records of the Australian Museum* 21:210-230.

Mills R (1995) *Archaeological Assessment of the Proposed Fletcher Subdivision South of Minmi Road, Wallsend*. Consultancy report to Monteath & Powys Consulting Surveyors & Planners for Stockland.

Mills R (1998) *Report on Sub-surface Testing Program at Nikkinba Ridge, Minmi Road, Minmi*. Consultancy report to Monteath & Powys Consulting Surveyors & Planners for Stockland.

Mills R (1999) *An Aboriginal Heritage Study of a Proposed NorthLakes Residential Development at Cameron Park, near Newcastle, NSW*. Consultancy report to North Lakes Pty Ltd.

Mills R & Wilkinson C (1994a) *Archaeological Survey of the Proposed Upgrade of the Shortland Wastewater Treatment Works*. Consultancy report to Sinclair Knight Merz Pty Ltd for Hunter Water Corporation.

- Mills R & Wilkinson C (1994b) *Archaeological Review of the Landcom Development Site 12115 Maryland, Newcastle*. Consultancy report to Sinclair Knight Merz and Hunter Water Corporation.
- Moore DR (1967) Archaeological field survey of the Hunter River valley, NSW by the Australian Museum: A preliminary report. *Australian Institute of Aboriginal Studies Newsletter* 2:34-41.
- Moore DR (1969) The prehistory of the Hunter Valley. *Australian Natural History* 16(5):166-171.
- Moore DR (1970) Results of an archaeological survey of the Hunter River valley, N.S.W. part I: The Bondaian industry. *Records of the Australian Museum* 28:25-64.
- Moore DR (1981) Results of an archaeological survey of the Hunter River valley, New South Wales, Australia part II: Problems of the lower Hunter and contacts with the Hawkesbury Valley. *Records of the Australian Museum* 33:348-442.
- Moore DR (2000) Technology of the Hunter Valley microlith assemblages, New South Wales. *Australian Archaeology*:28-39.
- Mulvaney J & Kamminga J (1999) *Prehistory of Australia*. Allen and Unwin, St Leonards, Australia.
- Navin K & Dallas M (1992) *Lake Macquarie Sewerage Scheme – Kilaben Bay/Coal Point Sewerage: Archaeological Study*.
- Resource Planning (1991) *Archaeological Survey: George Booth Drive Upgrading*. Consultancy report to Lake Macquarie City Council.
- Resource Planning (1992) *Archaeological Survey, Interim Connection from the F3 Freeway, Minmi to Beresfield, NSW*. Consultancy report to the RTA.
- Silcox R (1999) *Test Excavations for a Proposed Industrial Estate, Weakleys Flat, Beresfield, NSW*. Consultancy report to Marshall Scott Pty Ltd.
- Silcox R & Ruig J (1995) *Test Excavations on a Rural Residential Estate at Black Hill, Tarro, NSW*. Consultancy report to Peter and Suzanne Evans, Tarro, NSW.
- Threlkeld LE (1892) *An Australian Language as Spoken by the Awabakal, the People of Awaba or Lake Macquarie (near Newcastle, New South Wales) being an Account of their Language, Traditions and Customs*.
- Umwelt (1998) *Primary Submission to Commission of Enquiry, Proposed Donaldson Open Cut Coal Mine: Archaeological Assessment*. Consultancy report to Wootmac Pty Ltd.
- Umwelt (2001) *Aboriginal Archaeological Assessment and Sub-Surface Investigation of the Proposed Freeway Industrial Estate at South Beresfield, NSW*. Consultancy report to Harper Somers Surveyors Pty Ltd.
- Umwelt (2002a) *Management of Aboriginal Cultural Heritage Values in the Bluegum Vista Estate*. Consultancy report to Landcom Pty Ltd.
- Umwelt (2002b) *Archaeological Assessment: Tasman Mine Surface Facilities, near Seahampton, NSW*. Consultancy report to Newcastle Coal Company Pty Ltd.

Umwelt (2003a) *Minmi Corridors Assessment: Maintaining and Enhancing Natural and Cultural Heritage Values*. Consultancy report to Newcastle City Council.

Umwelt (2003b) *Report of a Supplementary Archaeological Study of the Mine Impact Area: Donaldson Open Cut Coal Mine, Beresfield, near Newcastle*. Consultancy report to Wootmac Pty Ltd.

Umwelt (2005a) *Aboriginal and Archaeological Assessment – Woodberry and Tarro Swamps, Beresfield*. Consultancy report to EnergyAustralia.

Umwelt (2005b) *Assessment and Management of Aboriginal Cultural Heritage Issues, Intersection of Weakleys Drive and New England Highway, Beresfield, NSW*. Consultancy report to the RTA.

Umwelt (2010) *Report on Section 90 #2605 Monitoring and Collection of Artefacts from the Weakleys Drive and New England Highway Intersection, Beresfield to Thornton, NSW*. Consultancy report to the RTA.

Appendix A: Aboriginal Community Consultation

The views presented in the following letters are those of the relevant Aboriginal groups, are presented without editing and alteration, and do not necessarily reflect the views of the Australian Museum Business Services (AMBS). AMBS does not guarantee the accuracy of any information contained in the following letters, and does not accept legal responsibility for their contents.

Aboriginal Community Consultation Log

Date	Sender	Organisation	Recipient	Organisation	Method	Comment
24/6/11	Ngaire Richards	AMBS	N/A	Newcastle Herald	Email	Sent text and logo, to be placed in the Newcastle Herald on 25 June 2011; response date 11 July 2011.
24/6/11	Ngaire Richards	AMBS	Gary Davey	OEH	Fax	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Stephen Wright	ORALRA	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Peter Schultz	NTSCorp	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Kimberley Wilson	NNTT	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Craig Aspinall	HRCMA	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Lillian Eastwood	Newcastle City Council (NCC)	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	David Ahoy	ALALC	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Ngaire Richards	AMBS	Donna	WLALC	Phone	Asked whether the study area was within their area of interest. Said they'd worked on that side of the Hunter River before, and wished to be consulted.
27/6/11	Ngaire Richards	AMBS	Andrew Smith	WLALC	Email	Notification of project and request for contact details of Aboriginal groups by 11 July 2011.
27/6/11	Craig Aspinall	HRCMA	Ngaire Richards	AMBS	Email	Response to request for contact details. Future correspondence should be addressed to the General Manager. Hunter-Central Rivers CMA does not manage or maintain lists of Aboriginal people who can speak on cultural heritage.
27/6/11	Tom Miller	LHWC	Ngaire Richards	AMBS	Email	Response to notice in Newcastle Herald registering expression of interest in consultation.
28/6/11	Lillian Eastwood	NCC	Ngaire Richards	AMBS	Email	Response to letter of notification. Project details will be tabled at the next Guraki Aboriginal Advisory Committee meeting. ALALC should be contacted.
29/6/11	Ngaire Richards	AMBS	General Manager	HRCMA	Fax	Resent notification by fax to General Manager.
1/7/11	Kimberley Wilson	NNTT	Ngaire Richards	AMBS	Email	No registered native title claimants, native title holders or registered Indigenous Land Use Agreements identified for the study area.
11/7/11	Donna Sampson	CCC	Ngaire Richards	AMBS	Email	Response to notice in Newcastle Herald registering expression of interest in consultation.
11/7/11	Megan Mebber-	ORALRA	Ngaire Richards	AMBS	Email	The notification letter has been forwarded to Tabatha Dantoine

	son					at ORALRA. Future correspondence should be directed to her.
12/7/11	Shane Frost	ADTOAC	Ngaire Richards	AMBS	Email	Response to notice in Newcastle Herald registering expression of interest in consultation.
13/7/11	Ngaire Richards	AMBS	Rosalie Neve	OEH	Phone	Rang to check if OEH had received fax notification and request for list of Aboriginal people who may have an interest in the proposed project. Rosalie requested that the letter be resent by email.
13/7/11	Ngaire Richards	AMBS	Rosalie Neve	OEH	Email	Resent notification of project proposal and request for list of Aboriginal people who may have an interest in the proposed project.
13/7/11	Rosalie Neve	OEH	Ngaire Richards	AMBS	Email	Response from OEH, that the following groups should be contacted: CCC, Awabakal Newcastle Aboriginal Co-op (ANAC), Awabakal Traditional Owners Aboriginal Corporation (ATOAC), Yamulong Group Initiatives Ltd (YGI), Arwarbukarl Cultural Resource Association (ACRA), ALALC.
13/7/11	Jenna Weston	AMBS	Kerrie Brauer	ATOAC	Email	Notification of project and asked whether they would like to be consulted, by 27 July 2011.
13/7/11	Jenna Weston	AMBS	Daryn McKenny	ACRA	Mail	Notification of project and asked whether they would like to be consulted, by 27 July 2011.
13/7/11	Jenna Weston	AMBS	Sean Gordon	YGI	Mail	Notification of project and asked whether they would like to be consulted, by 27 July 2011.
13/7/11	Jenna Weston	AMBS	Kevin McKenny	ANAC	Mail	Notification of project and asked whether they would like to be consulted, by 27 July 2011.
14/7/11	Kerrie Brauer	ATOAC	Ngaire Richards	AMBS	Email	Registration of interest.
14/7/11	Kerrie Brauer	ATOAC	Jenna Weston	AMBS	Email	Said she'd sent the registration of interest to Ngaire, on receiving the NTSCorp letter.
25/7/11	Jenna Weston	AMBS	Daryn McKenny	ACRA	Phone	Called to see if they were interested in being consulted. Danny was on another call so I left my number for him to call me back.
25/7/11	Jenna Weston	AMBS	Sean Gordon	YGI	Phone	Called to see if they were interested in being consulted. Was told that Sean no longer worked there and I'd need to speak with Darlene. I left my number for her to call me back.
25/7/11	Jenna Weston	AMBS	Ray Kelly	ANAC	Phone	Called to see if they were interested in being consulted. Was told that Kevin McKenny no longer worked there and I'd need to speak with Ray Kelly. Ray said that they would be interested in being consulted on the project and kept abreast of what's happening, but they didn't have site officers as cultural heritage assessment wasn't their primary focus. He asked if I had other stakeholders registered and told him who they were, and he said that he knew those groups but he also knew of another group. He said he would pass my details on to them, so that they could

26/7/11	Jenna Weston	AMBS	Daryn McKenny	ACRA	Phone	contact me directly if they were interested in being consulted. Daryn was not in the office today. The message had been passed on to him. I asked if he had an email address so that I could send him some information about the project.
26/7/11	Jenna Weston	AMBS	Darlene Beitsch	YGI	Phone	Darlene was away sick today. I asked if she had an email address, but they weren't sure what it would be.
26/7/11	Jenna Weston	AMBS	Tom Miller	LHWC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Donna Sampson	CCC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Shane Frost	ADTOAC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	David Ahoy	ALALC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Andrew Smith	WLALC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Daryn McKenny	ACRA	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Kerrie Brauer	ATOAC	Email	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Ray Kelly	ANAC	Mail	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Jenna Weston	AMBS	Darlene Beitsch	YGI	Mail	Sent proposed methodology, requesting feedback by 23 August.
26/7/11	Daryn McKenny	ACRA	Jenna Weston	AMBS	Email	Registered their interest to be consulted. Said he was at home taking care of his sick daughter today so may not be able to get forms back by today.
26/7/11	Jenna Weston	AMBS	Daryn McKenny	ACRA	Email	I said his email was enough to register his interest, and the feedback form was for responding to the proposed methodology, and was due within four weeks.
27/7/11	Jenna Weston	AMBS	Darlene Beitsch	YGI	Phone	Darlene is away sick this week. I asked if she had an email address, but they weren't sure what it would be. I said I'd try calling back next week.
27/7/11	Tony Voller/ Fiona Marshall	HRCMA	Jenna Weston	AMBS	Mail	Letter (dated 19/7/11) saying that they could not advise of any Aboriginal contacts, but that we should contact OEH.
1/8/11	Jenna Weston	AMBS	Darlene Beitsch	YGI	Phone	Rang to ask if they were interested in being consulted. Darlene hadn't seen the letter that was sent with information about the project, so I said I'd email it to her, and she could then let me know if they're interested.
1/8/11	Jenna Weston	AMBS	Darlene Beitsch	YGI	Email	Asked if they were interested in being consulted, and sent proposed methodology, requesting feedback by 23 August.
15/8/11	Shane Frost	ADTOAC	Jenna Weston	AMBS	Phone	Said he agreed with the methodology and would send an

						email through with details. Asked whether they'd be able to come out on a survey and I said I thought we should be able to arrange it, for later next week. He said there were lagoons within the swamp and trees nearby, and flat areas could have also been utilised around these lagoons. Asked whether there were any AHIMS sites and I said there were a number on the edges of the swamp, but none near the study area.
15/8/11	Shane Frost	ADTOAC	Jenna Weston	AMBS	Email	Letter agreeing with methodology, adding that the area was of great significance to them as a resource area, and that there may still be evidence of Aboriginal use within and outside the swamp. Also identified that excavations in the region had found thousands of artefacts, which attests to the Aboriginal use of the swamp.
19/8/11	Donna Sampson	CCC	Jenna Weston	AMBS	Email	Agreement with the methodology.
22/8/11	Kerrie Brauer	ATOAC	Jenna Weston	AMBS	Email	Letter providing general agreement with methodology. Agreed for us to provide their details to OEH, but not to ALALC and WLALC, and asked why WLALC was included in the assessment, as the study area seems to be outside their boundaries. Requested further background information, including map of previously recorded sites; identification of the hectares to be surveyed and time to be taken for survey, noting that survey coverage should be based on area to be surveyed, rather than number of days allocated, and "concerns that no modifications have been included in the event that additional investigations may be necessary". Identified that the area was very significant to them, and asked us to consider "place" in our assessment. Asked for a finalised methodology addressing their concerns, prior to the field survey. [NB. sent an email addressing their concerns on 24/8/11].
24/8/11	Jenna Weston	AMBS	Rosalie Neve	OEH	Email	Sent details of groups registered for consultation, and proof of newspaper ad.
24/8/11	Jenna Weston	AMBS	David Ahoy	ALALC	Email	Sent details of groups registered for consultation, and proof of newspaper ad.
24/8/11	Jenna Weston	AMBS	Kerrie Brauer	ATOAC	Email	Email addressing comments and concerns in her letter dated 22/8/11. Identified that WLALC registered for consultation, but LALC map and letters from statutory bodies identify ALALC as the relevant LALC. Provided summary background information, including map of previously recorded AHIMS sites, and identified that the extended background would be provided

						in the draft report. Identified that the entire study area would be surveyed, as shown on the scale map provided with the methodology. Identified that concerns about whether any further investigations were necessary would be addressed in the field and through further consultation, and that recommendations for any further investigations would be developed in consultation with the registered stakeholders. Acknowledged that the area was very significant to them, and identified that we would continue to consult with them about the significance of any sites and the study area as a whole.
9/2/12	Jenna Weston	AMBS	Tom Miller	LHWC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Donna Sampson	CCC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Shane Frost	ADTOAC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Andrew Smith	WLALC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Daryn McKenny	ACRA	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	David Ahoy	ALALC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Kerrie Brauer	ATOAC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
9/2/12	Jenna Weston	AMBS	Ray Kelly	ANAC	Post	Sent draft report and feedback form, requesting feedback by 9 March.
2/3/12	Jenna Weston	AMBS	Tom Miller	LHWC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	Donna Sampson	CCC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	Shane Frost	ADTOAC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	Andrew Smith	WLALC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	Daryn McKenny	ACRA	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	David Ahoy	ALALC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a

						keeping place.
2/3/12	Jenna Weston	AMBS	Kerrie Brauer	ATOAC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
2/3/12	Jenna Weston	AMBS	Ray Kelly	ANAC	Post	Sent revised draft report and feedback form, requesting feedback by 30 March. Also requested nominations for a keeping place.
6/3/12	Donna Sampson	CCC	Jenna Weston	AMBS	Fax	Sent feedback agreeing with report and recommendations.
7/3/12	Shane Frost	ADTOAC	Jenna Weston	AMBS	Phone	Shane said he was in Tasmania and wouldn't be able to review the report by tomorrow. I explained that a new draft report had been sent out, with a feedback date of 30 March. He said that should be enough time to respond then.
17/3/12	Kerrie Brauer	ATOAC	Jenna Weston	AMBS	Email	Sent feedback requesting some additional information and edits to the report, but agreeing with the recommendations. In relation to comments on p.23-27, this section relates to the most relevant previous archaeological work in the study area and its near vicinity. Although the majority of the studies are more than 10 years old, this is beyond AMBS' control, and a larger list of reports from the wider area that were reviewed and summarised are provided in Appendix B. It is beyond the scope of the report to provide the further analytical research requested by ATOAC. In relation to Section 5.3, this is an archaeological predictive model which does not assume that cultural values and heritage does not exist, but identifies the types of sites that are most likely to remain in the area and be found during a field survey (cultural values cannot be addressed in this section; and in other sections of the report where they are addressed, we are reliant on the registered Aboriginal stakeholders to communicate such values). The potential for sites in areas without ground surface visibility has been predicted in accordance with OEH guidelines, and areas of potential deposit identified as PAD, in Sections 6-7 of the report. The AHMP is mentioned in the final recommendation of the report in accordance with advice from ARTC that a keeping place would be needed, and an AHMP was to be developed; however, this is not discussed further at this stage of the assessment, as it is generally developed as a condition of approval for the project.
30/3/12	Jenna Weston	AMBS	Shane Frost	ADTOAC	Email	Said that I knew he'd hoped to provide comments on the report, and that if he sent them through over the weekend, I could

1/4/12	Shane Frost	ADTOAC	Jenna Weston	AMBS	Email	incorporate them into the report on Monday. Sent feedback requesting some additional information and edits to the report, but agreeing with the recommendations. In relation to the request that topsoil not be removed from the Project area, this will not be possible; however, registered Aboriginal stakeholders would be informed of the discovery of any archaeological evidence during construction (the process for this is to be detailed in the AHMP).
--------	-------------	--------	--------------	------	-------	--

Proof of advertisement that appeared in the Newcastle on 25 June 2011



AUSTRALIAN RAIL TRACK
CORPORATION LTD

**Notice of Aboriginal
Consultation**

Hexham Relief Roads

The Australian Rail Track Corporation (ARTC) proposes the construction of up to five new train lines (approximately 2km in length) adjacent to the existing lines at Hexham, between the towns of Woodberry and Sandgate in the Newcastle City Local Government Area.

Key components of the proposal include:

- Construction of five Up Relief Roads (train lines) between the existing Up Main and a new Down Main, including the use of existing roads, new turnouts and other track changes;
- Installation of new signal infrastructure;
- Earthworks to include track formation, drainage and minor structures;
- Establishment of ancillary infrastructure, including temporary construction compounds and stockpile sites; and
- Construction of vehicular access tracks, land acquisition and the upgrading of existing rail infrastructure and public utilities as required.

The ARTC intends to seek appropriate approvals for the project under the Environmental Planning and Assessment Act, 1979 and other legislation. The Upper Hunter Valley Alliance (UHVA), on behalf of the ARTC, is preparing an environmental assessment of the project in order to seek these approvals. The UHVA contact for this proposal is:

Naomi L'Oste-Brown,
Senior Environmental
Consultant

KMH Environmental
P O Box 5487,
CHATSWOOD NSW 1515

Aboriginal people who hold cultural knowledge and wish to be consulted for this assessment are invited to register a written expression of interest by 11 July 2010, by fax to (02) 9320 6428; or email to ngaire.richards@austrmus.gov.au or by post to:

Attn: Ngaire Richards,
Australian Museum
Business Services
6 College Street
SYDNEY NSW 2010

Feedback on methodology from ADTOAC



PO BOX 86
CLARENCE TOWN
NSW 2321

Date: 15 August 2011

Attention: Jenna Weston
Australian Museum Business Services
6 College Street
Sydney NSW 2010

Re: Response and Comments for the Draft Methodology-'Hexham Relief Roads: Aboriginal Heritage Impact Assessment'.

ALLA (Hello in Awabakal Language) Jenna,

We thank you for your correspondence regarding the **Draft Methodology-'Hexham Relief Roads: Aboriginal Heritage Impact Assessment'** asking us for comments in relation to this matter.

In response to the correspondence we received from AMBS requesting us to provide any comments and feedback regarding the Draft Methodology for the **'Hexham Relief Roads: Aboriginal Heritage Impact Assessment'** we would like to notify you that the **Awabakal Descendants Traditional Owners Aboriginal Corporation** has reviewed the methodology and we believe that the methodology covers most areas of concern. With that said, we would like to take advantage of your kind offer affording us the opportunity to make some complimentary additions.

The area known as Hexham Swamp is of great significance to our People. As pointed out in our registration of interest we emphasised the importance that this area played in the lives of our People. It is the source of many resources of which our people have depended on for thousands of years and as a result, many sites now make up the Awabakal Cultural Heritage that is located around the perimeter of Hexham Swamp. These sites are also connected to the many other sites located within our Traditional Tribal Country.

- It is important that we not forget that even though this area may have had some impacts over the years from various industries and clearing of the vegetation and draining of the swamps, it does not negate the fact that this area was widely and heavily utilised by our People and evidence of this use is dispersed within and outside the perimeter of the swamp.
- Also, even though there may be no recorded Cultural Heritage sites listed on the OEH AHIMS Database for the study area (as relayed to me during a phone conversation from AMBS on the 15th August 2011), this does not automatically mean there will be no Cultural Heritage present. This is why it is important to investigate at a detailed level above and beyond that of others who have failed to do so in the past during previously conducted assessments. If one looks at the amount of Cultural Heritage sites that have been recorded around Hexham Swamp and the statistics of those that have been excavated, then you will see that these excavations have turned up thousands upon thousands of artefacts reinforcing the fact that this area has been vastly utilised over many thousands of years.

We look forward to your reply and hope this addresses any queries you may have Jenna. If further information is required please don't hesitate to contact us at your earliest convenience, our contact details are as follows.

NGI NOA (Farewell in Awabakal Language)

Shane Frost-Managing Director: Awabakal Descendants Traditional Owners Aboriginal Corporation
Email: shanefrost@bigpond.com Phone: 49964325 Fax: 49964325 Mobile: 0428320671