



Appendix 1: Abstract of Records (AAPA), Murrumujuk Infrastructure


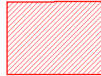



<p>Our File: RI2021/612 In Reply Please Quote: 202110134</p> <p>Sun Cable 99 623 991 006 17 19 The Mall Street DARWIN, NT, 0800</p> <p>ATTENTION: [REDACTED] RE: Abstract of Records - NT por 2626 - 202110134</p> <p>On 29th July 2021 the Aboriginal Areas Protection Authority (the Authority) received your application for an abstract of records under regulation 7 of the <i>Northern Territory Aboriginal Sacred Sites Regulations 2004</i> (NT) (the Regulations).</p> <p>The contents of this letter and the enclosed map comprise the abstract which is hereby provided to you for the purposes of regulation 7(3). I advise, in accordance with regulation 7(3)(a), that for the parcel of land the subject of this abstract:</p> <ol style="list-style-type: none">i. there are registered sacred sites located on the parcel of land;ii. there are recorded sacred sites located on the parcel of land;iii. there are restricted work areas in the parcel of land which are provided for in a previously issued Authority Certificate; <p>The map enclosed provides an overview of any registered or recorded sacred sites and restricted work areas described above. The information provided to you in this abstract is for information purposes only and cannot be relied upon as an exhaustive list of sacred sites in the area. There may be other sacred sites in the parcel of land of which the Authority is not yet aware.</p> <p>A person is only permitted to enter and remain on a sacred site, carry out works on a sacred site, or make use of a sacred site in accordance with an Authority Certificate granted by the Authority (refer ss22 and 25 of the Act, also see ss34 and 35). Should you desire to do any of these things please make an application for an Authority Certificate. Further information about this process can be found here – https://www.ntlis.nt.gov.au/aapa-online/auth/login. Undertaking any of these acts without an Authority Certificate puts you at risk of prosecution under the Act (refer ss33-35). This abstract <u>does not</u> protect you in any way for your acts and is <u>not</u> an Authority Certificate.</p> <p>The current Act and Regulations can be found online here - https://legislation.nt.gov.au/. Please ensure you are familiar with the legislation, particularly the offences in relation to sacred sites and the processes involved for obtaining an Authority Certificate if and when you require one.</p> <p>Further information concerning abstracts and requests for information from the Authority can be found in the frequently asked questions (FAQs) which can be found online here– https://www.aapant.org.au/our-services/request-information-0#faq1.</p> <p>The cost of providing the information set out in this letter and the attached map is \$28 (GST inclusive if applicable) and an invoice will be issued to you by the Department of Corporate and Digital Development.</p> <p>If you have any queries, please do not hesitate to contact the Registrar via email through enquiries.aapa@nt.gov.au or (08) 8999 4356.</p> <p>Yours sincerely,</p> <p> Wendy Forscutt ACTING REGISTRAR 29th July 2021</p>	 <p>Aboriginal Areas Protection Authority protecting sacred sites across the territory</p>
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Frequently Asked Questions

In these FAQs, a reference to:

- "the Act" is a reference to the *Northern Territory Aboriginal Sacred Sites Act 1989* (NT); and
- "the Regulations" is a reference to the *Northern Territory Aboriginal Sacred Sites Regulations 2004* (NT).
The Act and Regulations can be found here - <https://legislation.nt.gov.au/>.

Question	Answer
What is a sacred site?	The term "sacred site" is defined in s3 of the Act by reference to its meaning in the <i>Aboriginal Land Rights (Northern Territory) Act 1976</i> (Cth) which provides a sacred site is "a site that is sacred to Aboriginals or is otherwise of significance according to Aboriginal tradition, and includes any land that, under a law of the Northern Territory, is declared to be sacred to Aboriginals or of significance according to Aboriginal tradition".
What is a registered sacred site?	<p>A registered sacred site is indicated on the map by this symbol: </p> <p>The site number is indicated on the map by a number in the following format XXXX-XX.</p> <p>A registered sacred site is a site that has been added to the Register of Sacred Sites maintained by the Authority following the process set out in Part III Division 2 of the Act.</p> <p>The effect of registering a sacred site is set out in s45 of the Act.</p> <p>The extent of a registered site is the red hatched area: </p>
What is a recorded sacred site?	<p>A recorded sacred site is a site that is known to the Authority but has not been registered and includes recorded sacred burial sites. The Authority may hold the information required to register the site should this become the wishes of the custodians. Alternatively, a recorded sacred site may still require further research in order to obtain all necessary information. The recorded coordinate point for a sacred site is a reference point only and does not necessarily indicate the location or extent of any specific site feature.</p> <p>A recorded sacred site point is indicated on the map by this symbol: </p> <p>A recorded sacred burial site is indicated on the map by this symbol: </p> <p>Note that recorded sites have not gone through the registration process set out in s28 of the Act. As such, the full extent of the sacred site may change upon registration. The extent of a recorded sacred site is the green hatched area. </p>
The map shows that there are no registered or recorded sites in the area of interest. Does this mean I can proceed with my works?	<p>Whether you proceed with your works is a decision for you however you should carefully consider the area concerned and the provisions of the Act (particularly those that address the protections an Authority Certificate provides and the punishments prescribed for the offences set out in Part IV of the Act).</p> <p>If there is no record of an Authority Certificate being issued over the area concerned, it is possible that there may be sacred sites that are not currently known to the Authority.</p>
How long does it take to get an Authority Certificate?	The Authority takes an average of three months to produce an Authority Certificate. The timeframe will vary depending on various factors including the complexity of the proposed works, availability of custodians, remoteness, and access to land.

Question	Answer
<p>How much does an Authority Certificate cost?</p>	<p>Division 1A and Division 1 of Part III of the Act set out the procedures for applications for Authority Certificates.</p> <p>The cost of an Authority Certificate differs depending on whether it is a "standard application" or a "non-standard application". The classification of an application is determined by the Authority in accordance with the guidelines prescribed by Regulation 3 and set out at Schedule 1 to the Regulations.</p> <p>Standard applications will incur a fee in accordance with Schedule 4 of the Regulations.</p> <p>Non-standard applications are subject to charges which will depend on the nature of the application and the work required by the Authority. These charges are calculated by the Authority in accordance with Regulation 6 of the Regulations. If you submit an application that is determined to be a non-standard application, the Authority will provide you with an estimate of charges for your consideration and approval.</p>
<p>What information is on the Register of Sacred Sites?</p>	<p>The information on the Register of Sacred Sites differs due to the information available and the information permitted by the custodians of the sacred site to be recorded. Please refer to section 29 of the Act for further information. However, generally the Register of Sacred Sites may include the following types of information in relation to a sacred site:</p> <ul style="list-style-type: none"> • the coordinate point of the site (NB: the coordinate point for a sacred site is a reference point only and does not necessarily indicate the location or extent of any specific site feature); • features of the site; • geographic description; • custodian group details; and • Aboriginal traditions associated with the site.
<p>How do I inspect the Register of Sacred Sites?</p>	<p>Section 48 of the Act allows a person to apply to the Authority to inspect the Register of Sacred Sites. The viewing will take place in the Authority's offices, which are located in Darwin and Alice Springs. No hard or soft copies of the Register will be provided and photographs of the Register are prohibited.</p> <p>Information that is of a sensitive commercial nature or relates to matters required to be kept secret according to Aboriginal tradition will not be provided.</p> <p>To view the Register of Sacred Sites please apply online. You must specify the sites or certificates that you would like to view (see the map for the relevant numbers). A staff member will then contact you to organise an inspection time in either our Darwin or Alice Springs office.</p> <p>In accordance with regulation 8 and with reference to item 2 of Schedule 4 to the Regulations, the fee payable to inspect the Register of Sacred Sites is 23 revenue units per sacred site.</p>
<p>Authority Certificate Records are available for Public Inspection in the area of interest. What does this mean?</p>	<p>Areas over which the Authority has previously issued an Authority Certificate are indicated on the map by this hatching: </p> <p>In an abstract provided by the Authority pursuant to regulation 7(3) of the Regulations, areas over which the Authority has previously issued an Authority Certificate are indicated on the map.</p> <p>For these areas, the Authority has consulted custodians for the area in the past about prior works. There may be conditions in the Authority Certificate. These conditions will relate to the works covered by that certificate only.</p> <p>You cannot rely on an Authority Certificate that was issued to another person.</p> <p>If there is a record of an Authority Certificate being issued over the area concerned, that certificate only applies to those prior works and will not provide any protection for your works.</p>

Question	Answer
<p>There are restricted work areas in the area of interest. What does this mean?</p>	<p>In an abstract provided by the Authority pursuant to regulation 7(3) of the Regulations, a  restricted work area will be indicated on the map by this hatching:</p> <p>A restricted work area relates to an area identified in an issued Authority Certificate. It is an area that had restrictions on the kind of activities that were permitted (or not permitted) in the area.</p>
<p>Can I see the Authority Certificate records that are available for public inspection over the area of interest?</p>	<p>Yes. The Authority will provide access to information on prior Authority Certificates that have been issued in the area of interest. An application may be made pursuant to section 48.</p> <p>You will be provided with a list of Authority Certificates granted or refused over the area of interest, including the conditions for any works that may have been proposed for that area. The conditions listed in a prior Authority Certificate are for the works stated in that particular Certificate. Restrictions on works can vary. Sometimes an Authority Certificate will prohibit any work in the area or will prevent certain activities, such as ground disturbing work, damage to trees, or the removal of sand or gravel. The conditions in a certificate are specific to each application and depend on the works proposed.</p> <p>The viewing will take place in the Authority's offices, which are located in Darwin and Alice Springs. No hard or soft copies of the Register will be provided and photographs of the Register are prohibited.</p> <p>Information that is of a sensitive commercial nature or relates to matters required to be kept secret according to Aboriginal tradition will not be provided.</p> <p>To view Authority Certificates that have been previously issued or refused in your area of interest, please apply online. You must specify the sites or certificates that you would like to view. The map contained in this letter will contain relevant record reference numbers. A staff member will then contact you to organise an inspection time in either our Darwin or Alice Springs office.</p> <p>In accordance with regulation 8 and with reference to item 3 of Schedule 4 to the Regulations, the fee payable to inspect the Register of Sacred Sites is 23 revenue units per inspection of Authority Certificate application and related Certificate or refusal.</p>
<p>No Authority Certificates have been issued in the area of interest. What does this mean?</p>	<p>Areas where the Authority has not issued an Authority Certificate are indicated on the  map by this shading:</p> <p>In an abstract provided by the Authority pursuant to regulation 7(3) of the Regulations, areas where the Authority has not issued an Authority Certificate are indicated on the map. These are areas where the Authority has not undertaken anthropological research. The Authority may not have records of the sacred sites in this area. It means that there may be sites in the area and work should only proceed with an Authority Certificate, which will be issued after the Authority has spoken with custodians in the area.</p>
<p>There are "other sites" in the area of interest. What does this mean?</p>	<p>Other sites are shown on the map by this symbol: </p> <p>In an abstract provided by the Authority pursuant to regulation 7(3) of the Regulations, other sites (where known) are shown on the map. Other sites include archaeological places or sacred objects. These places and objects are protected under the <i>Heritage Act 2011</i> (NT).</p>
<p>There is a burial site in the area of interest. What does this mean?</p>	<p>Burial sites are shown on the map by this symbol: </p> <p>In an abstract provided by the Authority pursuant to regulation 7(3) of the Regulations, burial sites (where known) are shown on the map.</p> <p>Under the <i>Criminal Code Act 1983</i> (NT) it is an offence to interfere with remains of a deceased person. It is also an offence contrary to the <i>Heritage Act 2011</i> to interfere with the remains of a deceased Aboriginal person without authorisation under that Act. In the event that any skeletal remains are unearthed, it is your responsibility to stop works and immediately report such disturbance to the NT Police and the Director Heritage Branch, Department of Territory Families, Housing and Communities.</p> <p>For further information, please contact the Director Heritage Branch, Department of Territory Families, Housing and Communities on (08) 8999 5051 or email heritage.branch@nt.gov.au.</p>

Question	Answer
<p>I know the custodians of the sites in the area of interest. Do I still need an Authority Certificate?</p>	<p>Yes. An Authority Certificate provides a defence against prosecution under the Act as long as the conditions of the Certificate are adhered to. The Authority can only issue an Authority Certificate if it is satisfied of the matters set out in s22 of the Act.</p>
<p>I own the land that is the area of interest. Do I still need an Authority Certificate?</p>	<p>The rights of land owners are preserved under s44(1) of the Act. Ownership of the land, however, will not defend you against a prosecution under the Act in the event a sacred site is damaged. Only an Authority Certificate can do this. Owners of land that may include sacred sites should ensure they consider the Act and whether they may require an Authority Certificate for their use of the land.</p>
<p>Can I share my abstract of records with other people?</p>	<p>No. It is an offence under s38 of the Act to permit access to, or furnish a document produced for a purpose of the Act without permission of the Authority.</p> <p>The abstract of records has been provided to you by the Authority for the limited purpose of your consideration. Should you wish to share the abstract, you should write to the Authority seeking permission under s38(1) of the Act. You should detail the purpose of sharing the abstract of records.</p>
<p>Can I publish the abstract of records?</p>	<p>No. It is an offence under s38 of the Act to permit access to, or furnish a document produced for a purpose of the Act without permission of the Authority.</p> <p>The abstract of records has been provided to you by the Authority for the limited purpose of your consideration. Should you wish to publish the abstract, you should write to the Authority seeking permission under s38(1) of the Act. You should detail the purpose of publishing the abstract of records.</p>

This figure has been removed to respect and protect the cultural sensitivities of the area following consultation with Traditional Owners.

List of Records available for Inspection

Authority Certificates

Cert No	With RWA	Superseded_by
C2018/044	No	
C2017/101	Yes	
C2017/042	No	
C2013/093	Yes	
C2000/119	No	
C2000/097	Yes	
C1994/166	No	
C1994/162	No	
C1994/020	Yes	
C1993/180	No	
C1993/179	No	
C1993/023	No	

Registered Sites

Map_sequence
5173-11

Appendix 2: Site Descriptions and Records

Site Name: AAPL_LM001

Site Location	
Chainage: 722.5	Date: September 2021
Easting: 724555	Northing: 8596585

Archaeological Description	
Site Type: Historic object/place (Bridge)	
Site Description: 1887 high level, medium duty bridge structure.550 x 230mm fabricated riveted girders, supported by concrete abutments either end with two intermediate pier trestles with 230 x 140mm "I" section uprights. Uprights have Butterley Derbyshire Patent.	
Area (m ²): 20m x 2m	
Artefact Types: Railway Bridge	
Raw Materials: Steel and concrete	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 90%	
Site Context: Crossing tributary of Berry Ck.	
Condition: Excellent	Disturbance Factors: Weathering and vegetation growth

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Moderate to High	



Site Name: AAPL_LM002

Site Location	
Chainage: 722.3 to 723.2	Date: September 2021
Easting: 724476.8	Northing: 8596371

Archaeological Description	
Site Type: Historic object/place (North Australian Railway (NAR) embankment)	
Site Description: 1887 remnants of the remnant of the North Australia Railway. Embankments section of railway crossing tributary of Berry Ck and surrounding flood land. Blue metal gravel construction rising to approx. 3m above the surrounding ground at Chainage 723.	
Area (m ²): 950m	
Artefact Types: North Australia Railway	
Raw Materials: Gravel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 90%	
Site Context: Flood plain adjacent to tributary of Berry Ck.	
Condition: Good in places	Disturbance Factors: Removal of steel line, erosion and development

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM003

Site Location	
Chainage: 722.4 to 723.2	Date: September 2021
Easting: 724475.5	Northing: 8596416

Archaeological Description	
Site Type: Historic object/place (Old Coach Road)	
Site Description: Potential remnants of the Old Coach Road. Road is built up approx. 30cm and constructed of compacted earth and gravel in places.	
Area (m ²): 3m wide	
Artefact Types: Old Coach Road	
Raw Materials: Earth and gravel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: <30%	
Site Context: Parallel to western side of railway on alluvial ground surface.	
Condition: Poor	Disturbance Factors: Erosion, cattle and vegetation growth

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM004

Site Location	
Chainage: 723.7 to 723.9	Date: September 2021
Easting: 724985.9	Northing: 8597645

Archaeological Description	
Site Type: Historic object/place (NAR cutting)	
Site Description: 1887 Railway cutting. Likely hand excavated cutting through laterite and shale bedrock. 200m in length to a maximum 3m depth. 1887 hand pick marks remain visible in some places.	
Area (m ²): 200m x 6m	
Artefact Types: Railway Cutting	
Raw Materials: NA	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 60%	
Site Context: Laterite ground surface	
Condition: Good	Disturbance Factors: Weathering and vegetation growth

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low to moderate	



Site Name: AAPL_LM005

Site Location	
Chainage: 723.8	Date: September 2021
Easting: 725034.3	Northing: 8597704

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 dump. 5 x 44 gallon drums, broken bottles, mechanical parts and a riveted section of aircraft panelling.	
Area (m ²): 5m x 10m	
Artefact Types: WW2 Feature	
Raw Materials: Steel, glass and aluminium	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 20%	
Site Context: Edge of railway cutting on Laterite ground surface	
Condition: Fair	Disturbance Factors: Weathering and vegetation growth

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM006

Site Location	
Chainage: 723.9	Date: September 2021
Easting: 725054.5	Northing: 8597770

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 MAA Emplacement. 44 gallon drum gabions, covered with earth and concrete. Location likely for protection of trains/vehicles within cutting.	
Area (m ²): 25m x 25m	
Artefact Types: WW2 Feature	
Raw Materials: Steel, earth and concrete	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Edge of railway cutting on Laterite ground surface	
Condition: Good	Disturbance Factors: Weathering, erosion and vegetation

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Moderate	



Site Name: AAPL_LM007

Site Location	
Chainage: 724.15	Date: September 2021
Easting: 725149	Northing: 8598030

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 Ammunition box, pile of WW2 or railway riveted bolts and steel pieces	
Area (m ²): 2m x 2m	
Artefact Types: WW2 Feature	
Raw Materials: Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 90%	
Site Context: Adjacent to old railway line	
Condition: Poor	Disturbance Factors: Weathered

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM008

Site Location	
Chainage: 724.28	Date: September 2021
Easting: 725189.9	Northing: 8598169

Archaeological Description	
Site Type: Historic object/place	
Site Description: Concrete pad 2.5m x 3m. Orientated north. Concrete appears to have been laid within a corrugated iron building. Potential WW2 or railway association	
Area (m ²): 2m x 3m	
Artefact Types: WW2 or Railway	
Raw Materials: Concrete	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: Adjacent to old railway line and proximal to WW2 infrastructure	
Condition: Fair	Disturbance Factors: Cracked and weathered

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM009

Site Location	
Chainage: 724.32	Date: September 2021
Easting: 725211.8	Northing: 8598196

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 Potential MAA Emplacement. 44 gallon drum gabions. Gabions were 2 drums high with upper layer having collapsed outward. 52 drums along three sides of a 7m x 7m area. Opening faces 100 degrees.	
Area (m ²): 15m x 15m	
Artefact Types: WW2 Feature	
Raw Materials: Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 90%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Good	Disturbance Factors: Upper layer of drums have fallen/pushed out. Some rusting and damage from vegetations and use as target practice.

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM010

Site Location	
Chainage: 724.33	Date: September 2021
Easting: 725232.6	Northing: 8598197

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 Potential MAA Emplacement. 44 gallon drum gabions. Gabions were 2 drums high with upper layer having collapsed outward. 42 drums along three sides of a 6m x 6m area. Opening faces 230 degrees.	
Area (m ²): 15m x 15m	
Artefact Types: WW2 Feature	
Raw Materials: Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 90%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Good	Disturbance Factors: Upper layer of drums have fallen/pushed out. Some rusting and damage from vegetations and use as target practice.

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM011

Site Location	
Chainage: 724.44	Date: September 2021
Easting: 725300.8	Northing: 8598257

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 Potential latrine, 7 drums wired together and open at both ends. 7m length. Cones entering drum line from one edge.	
Area (m ²): 7m x 1m	
Artefact Types: WW2 Feature	
Raw Materials: Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 70%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Good	Disturbance Factors: Rust and weathering

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM012

Site Location	
Chainage: 724.46	Date: September 2021
Easting: 725333.8	Northing: 8598196

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 Buried drums over an approx. 15m length. Drums are perforated suggesting potential ablution or greywater drainage. Site is orientated 190 degrees.	
Area (m ²): 15m x 3m	
Artefact Types: WW2 Feature	
Raw Materials: Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 60%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Fair	Disturbance Factors: Rust and weathering

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM013

Site Location	
Chainage: 724.5	Date: September 2021
Easting: 725338.5	Northing: 8598184

Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 concrete rubble. Building foundations. Concrete aggregate is comparable to other WW2 features within the area. Original building is unknown.	
Area (m ²): 4m x 4m	
Artefact Types: WW2 Feature	
Raw Materials: Concrete & Steel	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 70%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Poor	Disturbance Factors: Relocated rubble

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM014

Site Location	
Chainage: 724.5	Date: September 2021
Easting: 725345	Northing: 8598215

Archaeological Description	
Site Type: Historic object/place	
Site Description: Earth mound with corrugated iron shoring. 5m x 3m x 0.3m ht. Ramped earth "path" on one side orientated 165 degrees	
Area (m ²): 5m x 3m	
Artefact Types: WW2 Feature	
Raw Materials: Steel and earth	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 70%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Poor	Disturbance Factors: Rust and weathering

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM015

Site Location	
Chainage: 724.5	Date: September 2021
Easting: 725361.3	Northing: 8598217

Archaeological Description	
Site Type: Historic object/place	
Site Description: CMT. Steel axe cut marks on living ironwood tree. Scar HAG = 142cm, Scar L = 12cm, W = 18cm. Tree diam @ 1m = 190cm. Likely WW2 association given absence of sugarbag opening.	
Area (m ²): 1m	
Artefact Types: CMT - WW2	
Raw Materials: Wood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 70%	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: Good	Disturbance Factors: Weathering

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM016

Site Location	
Chainage: 724.65	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT. Steel axe marks won fallen ironwood. Log partially burnt with lower portion of scar remaining. Scar HAG = 350cm, W= 16cm. Log diam @ 1m = 180cm. Likely sugar bag scar	
Area (m ²): 5m	
Artefact Types: CMT	
Raw Materials: Wood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 70%	
Site Context: Open woodland, 300m west of Stuart Hwy	
Condition: Poor	Disturbance Factors: Fire and weathering
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM017

Site Location	
Chainage: 724.9	Date: September 2021
Archaeological Description	
Site Type: Historic object/place	
Site Description: WW2 rubbish dump containing food and beverage containers (cans and bottles). Likely associated with adjoining WW2 infrastructure use.	
Area (m ²): 8m x 8m	
Artefact Types: WW2 Feature	
Raw Materials: Steel and glass	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Open woodland, 100m west of Stuart Hwy	
Condition: Fair	Disturbance Factors: Rust, fire and weathering
Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low	



Site Name: AAPL_LM024

Site Location	
Chainage: 737.2	Date: September 2021
Archaeological Description	
Site Type: Stone arrangement	
Site Description: Circular stone arrangement on small laterite hill. Origin could not be determined due to 0% ground surface visibility.	
Area (m ²): Could not determine due to low GV	
Artefact Types: Stones	
Raw Materials: Stone	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 0%	
Site Context: Open woodland on laterite/sandstone rise	
Condition: Unknown	Disturbance Factors: Unknown
Significance Assessment	
Cultural Significance: TBC	
Archaeological Significance: TBC	



Site Name: AAPL_LM025

Site Location	
Chainage: 737.23	Date: September 2021

Archaeological Description	
Site Type: Artefact scatter	
Site Description: Low density scatter on outcropping laterite/sandstone rise. 30 artefacts were recorded however poor ground surface visibility restricted defining the extent of the site	
Area (m ²): 10m x 10m	
Artefact Types: Flakes and flaked pieces	
Raw Materials: Quartz	
Maximum Artefact Density: 3m ²	
Estimated total number of artefacts:	
Ground Surface Visibility: 10%	
Site Context: Open woodland on laterite/sandstone rise	
Condition: Good	Disturbance Factors: Cattle

Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM028

Site Location	
Chainage: 738.8	Date: September 2021
Archaeological Description	
Site Type: Artefact scatter	
Site Description: Low density artefact scatter of flakes and flaked pieces. Not clearly defined artefacts in some instances however materials are geological inconsistent with surround sediments.	
Area (m ²): 4m x 4m	
Artefact Types: Flakes and flaked pieces	
Raw Materials: Quartzite , quartz and tuff	
Maximum Artefact Density: 3m2	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: Open woodland on sandy ground surface. Within 30m of watercourse	
Condition: Fair	Disturbance Factors: Cattle and erosion
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM032

Site Location	
Chainage: 758.9	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: Sugarbag scar on fallen iron tree (dead). Steel tomahawk marks. Scar HAG = 90cm, Length = 34cm, W = 13cm, Cir = 64cm. Orientation 180 degrees.	
Area (m ²): 3m x 1m	
Artefact Types: Sugar bag scar	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 60%	
Site Context: Open woodland on laterite ground surface. Within 200m of swamp.	
Condition: Good	Disturbance Factors: Weathering

Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM033

Site Location	
Chainage: 759.7	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT stump (ironwood). No log in situ. Stump HAG = 103cm, Cir = 93cm.	
Area (m ²): 1m x 1m	
Artefact Types: CMT Stump	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 60%	
Site Context: Open woodland on laterite ground surface. Within 300m of swamp.	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM034

Site Location	
Chainage: 767.35	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT fallen dead tree with sugar bag scar (ironwood). Scar HAG = 137cm, Ht = 21cm, W = 7cm. Tree circumference = 87cm.	
Area (m ²): 6m x 1m	
Artefact Types: CMT log, sugar bag scar	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 0%	
Site Context: Open woodland on laterite ground surface. Within 100m of swamp	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM035

Site Location	
Chainage: 768.6	Date: September 2021

Archaeological Description	
Site Type: CMT	
Site Description: CMT stump and log with sugar bag scar (ironwood). Stump HAG= 148cm, circumference = 56cm. Sugar bag scar L = 38cm, W = 13cm.	
Area (m ²): 6m x 2m	
Artefact Types: CMT Stump and Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 20%	
Site Context: Open woodland on laterite ground surface. Within 30m of swamp	
Condition: Poor	Disturbance Factors: Weathering and fire

Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM036

Site Location	
Chainage: 769	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT stump and log with likley sugar bag scar (ironwood). Steel axe marks. Stump circumference = 74cm. Stum HAG = 96cm. Scar length = 40cm, width = 19cm	
Area (m ²): 5m x 2m	
Artefact Types: CMT Stump (likley sugar bag site)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: Open woodland on laterite ground surface. Within 150m of swamp.	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM037

Site Location	
Chainage: 769	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT stump (ironwood). No log in situ. Stump HAG = 104cm, Cir = 74cm.	
Area (m ²): 1m x 1m	
Artefact Types: CMT Stump (likley sugar bag site)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: Open woodland on laterite ground surface. Within 150m of swamp.	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM038

Site Location	
Chainage: 769	Date: September 2021

Archaeological Description	
Site Type: CMT	
Site Description: CMT stump and log (ironwood). Likely sugar bag related site. Stump HAG = 75cm. Stump circumference = 70cm. No scar on log	
Area (m ²): 5m x 2m	
Artefact Types: CMT Stump and Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 60%	
Site Context: Open woodland on laterite ground surface. Within 150m of swamp.	
Condition: Poor	Disturbance Factors: Weathering and fire

Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM039

Site Location	
Chainage: 769.15	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT log and sugar bag scar (ironwood). Steel axe marks. Scar HAG = 81cm, L = 80cm, W =30cm. Active sugar bag in scar.	
Area (m ²): 6 x 1m	
Artefact Types: CMT Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 20%	
Site Context: Open woodland on laterite ground surface. On bank of swamp.	
Condition: Good	Disturbance Factors: Nil
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM040

Site Location	
Chainage: 771.46	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT stump and log with sugar bag scar (ironwood). Steel axe marks. Stump HAG = 100cm. circumference = 77cm. 2 x sugar bag scars. Scar 1 height above cut = 177cm, L = 39cm, W = 15cm. Scar 2 scar on separate log piece. Scar 2 L = 12cm, W = 11cm	
Area (m ²): 5m x 3m	
Artefact Types: CMT Stump and Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Open woodland on laterite ground surface. Within 100m of watercourse and swamp	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM041

Site Location	
Chainage: 771.9	Date: September 2021

Archaeological Description	
Site Type: CMT	
Site Description: CMT log with sugar bag scar (ironwood - burnt). Scar HAG = 98cm, L = 51cm, W = 24cm. Log diam = 26cm.	
Area (m ²): 3m x 1m	
Artefact Types: CMT Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Open woodland on laterite ground surface. Within 200m of watercourse and swamp	
Condition: Poor	Disturbance Factors: Weathering and fire

Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM042

Site Location	
Chainage: 772	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT log with sugar bag scar (ironwood - burnt). Scar HAG = NA, L = 32cm, W = 17cm. Log diam = 24cm.	
Area (m ²): 1.5m x 1m	
Artefact Types: CMT Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Open woodland on laterite ground surface. Within 200m of watercourse and swamp	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM043

Site Location	
Chainage: 772.5	Date: September 2021
Archaeological Description	
Site Type: Cultural feature	
Site Description: Banyan Tree. Traditional Owners indicated Banyan trees held high cultural significance as birthing places and burial places	
Area (m ²): 30m x 30m	
Artefact Types: Tree	
Raw Materials: Banyan	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 40%	
Site Context: Open woodland on laterite ground surface. Within 200m of swamp	
Condition: Good	Disturbance Factors: Nil
Significance Assessment	
Cultural Significance: Moderate to high	
Archaeological Significance: Low	



Site Name: AAPL_LM044

Site Location	
Chainage: 777.2	Date: September 2021
Archaeological Description	
Site Type: CMT	
Site Description: CMT stump and log (ironwood - burnt). Steel axe marks. Stump HAG = 125cm, circumference = 53. Burnt log with no visible sugar bag scars	
Area (m ²): 5m x 2m	
Artefact Types: CMT Stump and Log (sugar bag scar)	
Raw Materials: Ironwood	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Open woodland on laterite ground surface. Within dense ironwood woodland	
Condition: Poor	Disturbance Factors: Weathering and fire
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM045

Site Location	
Chainage: Murrumujuk Infrastructure	Date: September 2021
Archaeological Description	
Site Type: Shell midden	
Site Description: Low density shell scatter comprised of Telescopium, Marcia hiantina, Polymesoda erosa, Terebralia palustris. Shells are partly buried in laterite ground surface	
Area (m ²): 16m x 13m	
Artefact Types: Shell dominated by Telescopium	
Raw Materials: Shell	
Maximum Artefact Density: >50m ²	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: Open woodland on top of laterite ridge brow	
Condition: Poor	Disturbance Factors: Weathering and road infrastructure
Significance Assessment	
Cultural Significance: Low-medium	
Archaeological Significance: Low	



Site Name: AAPL_LM046

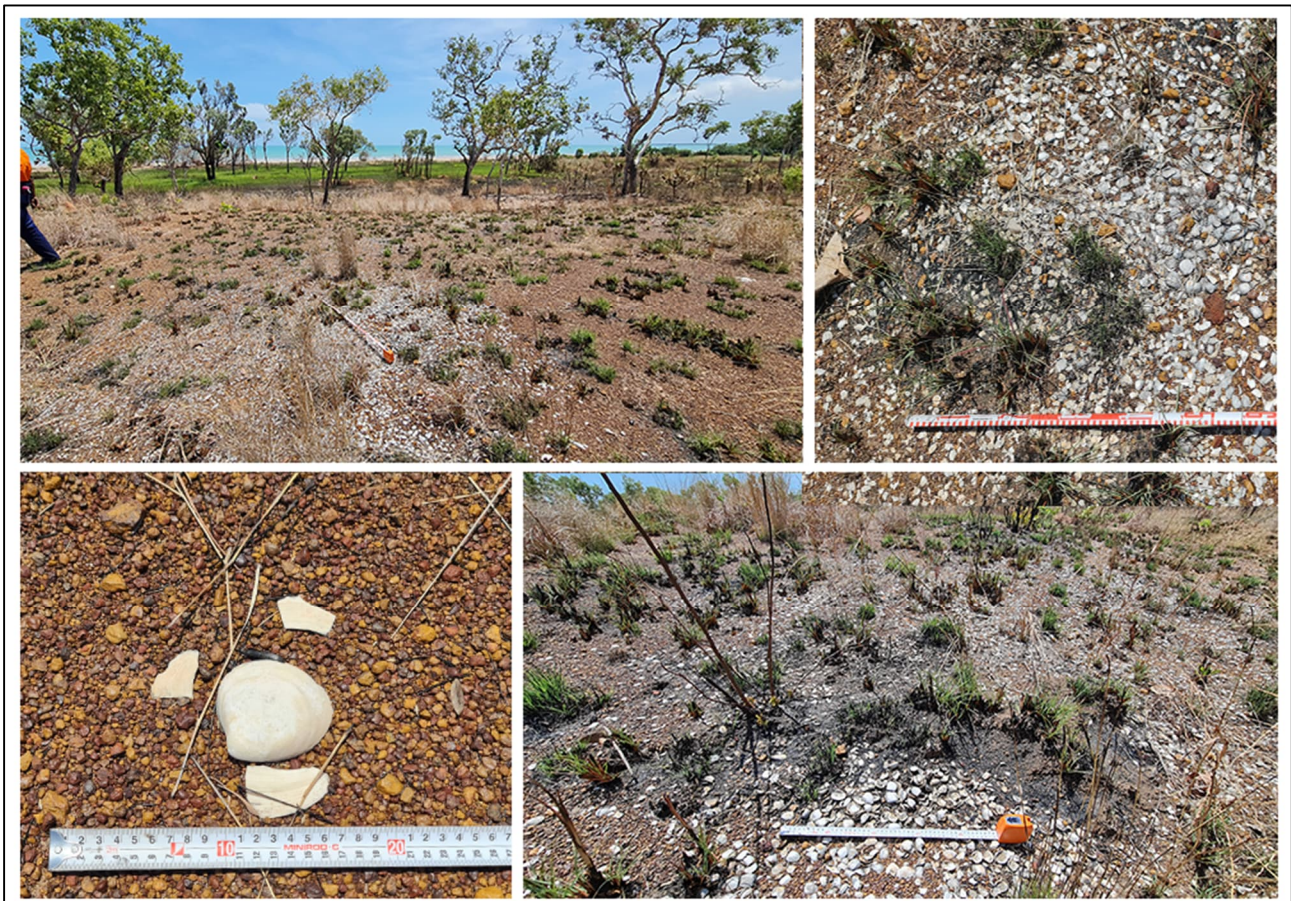
Site Location	
Chainage: 724.5	Date: September 2021
Easting: 725173	Northing: 8598036

Archaeological Description	
Site Type: Historic object/place	
Site Description: Recorded as a potential bomb crater in (Jung, S. 2017. Strauss Water Treatment Plant archaeological survey report. Power and Water, Darwin, NT)	
Area (m ²): 16m x 16m	
Artefact Types: WW2 Feature	
Raw Materials: Bomb crater	
Maximum Artefact Density: NA	
Estimated total number of artefacts:	
Ground Surface Visibility: NR	
Site Context: Open woodland within WW2 infrastructure complex.	
Condition: NR	Disturbance Factors: NR

Significance Assessment	
Cultural Significance: NA	
Archaeological Significance: Low-moderate	

Site Name: Shoal Bay 1

Site Location	
Chainage: Murrumujuk Infrastructure	Date: September 2021
Archaeological Description	
Site Type: Shell midden	
Site Description: Low to medium density shell scatter comprised of <i>Marcia hiantina</i> (dominant), <i>Telescopium</i> , <i>Anadara</i> sp., <i>Polymesoda erosa</i> , <i>Terebralia palustris</i> . Shells are partly buried in laterite ground surface.	
Area (m ²): 25m x 30m	
Artefact Types: Shell dominated by <i>Marcia</i> sp.	
Raw Materials: Shell	
Maximum Artefact Density: >100m ²	
Estimated total number of artefacts:	
Ground Surface Visibility: 80%	
Site Context: On top of low laterite rise	
Condition: Fair	Disturbance Factors: Weathering, erosion, fire and area visitors
Significance Assessment	
Cultural Significance: Medium	
Archaeological Significance: Low-moderate	



Site Name: Shoal Bay 3

Site Location	
Chainage: Murrumujuk Infrastructure	Date: September 2021
Archaeological Description	
Site Type: Shell midden	
Site Description: Low density shell scatter comprised of Marcia hiantina located between road and erosional area. Likely some of the site has been impacted by road works and erosion. Site at high risk of being lost due to erosion.	
Area (m ²): 1.5m x 1.5m	
Artefact Types: Shell dominated by Marcia sp.	
Raw Materials: Shell	
Maximum Artefact Density: >20m ²	
Estimated total number of artefacts:	
Ground Surface Visibility: 50%	
Site Context: Located on high ground between road and erosional zone	
Condition: Poor	Disturbance Factors: Road works, erosion, fire and area visitors
Significance Assessment	
Cultural Significance: Low	
Archaeological Significance: Low	

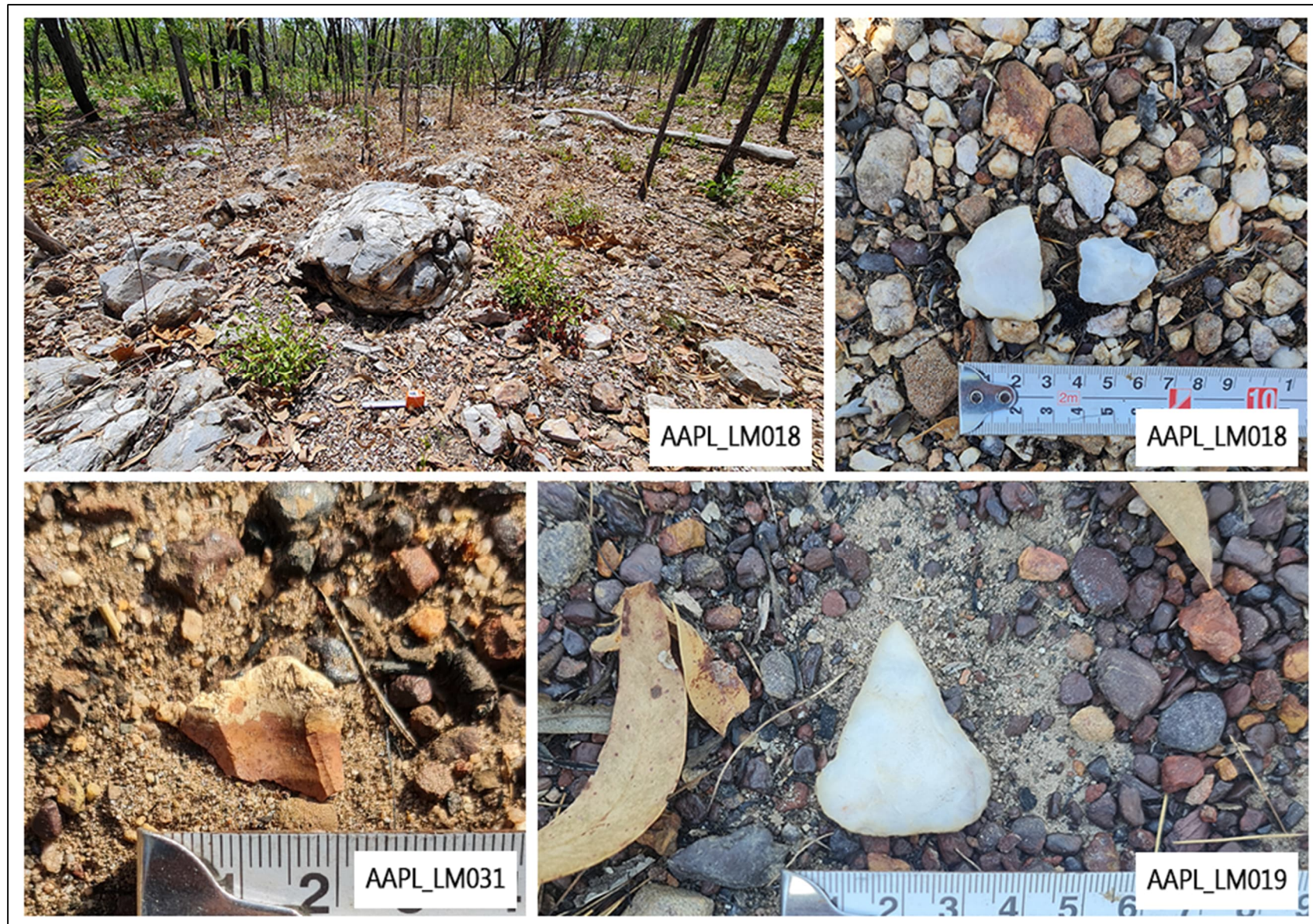


Site Name: Isolated artefacts

Name	Chainage	Artefact types	Raw Material	Visibility	Arch Sig	Cultural Sig	Site Condition	Notes	Site Context	Footprint
AAPL_LM018	729.7	Flakes	Quartz	20%	Low	Low	Good	Four quartz flakes recorded within outcropping quartz complex. Potentially part of wider background scatter. Poor ground surface visibility at the time of survey.	Open woodland on outcropping quartz ridge	Within infrastructure corridor
AAPL_LM019	730.57	Bifacial point	Quartz	10%	Low	Low	Good	Bifacial quartz point recorded within outcropping quartz complex. Potentially part of wider background scatter. Poor ground surface visibility at the time of survey.	Open woodland on outcropping quartz ridge	Within infrastructure corridor
AAPL_LM020	731.05	Flake	Quartz	10%	Low	Low	Good	Broken quartz flake recorded within outcropping quartz complex. Potentially part of wider background scatter. Poor ground surface visibility at the time of survey.	Open woodland on outcropping quartz ridge	Within infrastructure corridor
AAPL_LM021	731.2	Flake	Quartz	10%	Low	Low	Good	Broken quartz flake recorded within outcropping quartz complex. Potentially part of wider background scatter. Poor ground surface visibility at the time of survey.	Open woodland on outcropping quartz ridge	Within infrastructure corridor
AAPL_LM022	732.12	Flake	Quartzite	10%	Low	Low	Good	Whole quartzite flake recorded within outcropping quartzite complex. Potentially part of wider background scatter. Poor ground surface visibility at the time of survey.	Open woodland on outcropping quartzite ridge	Within infrastructure corridor
AAPL_LM023	733.25	Flake	Quartzite	10%	Low	Low	Good	Whole quartzite flake recorded on top of low lying flat ridge top.	Open woodland on top of low	Within infrastructure corridor

Name	Chainage	Artefact types	Raw Material	Visibility	Arch Sig	Cultural Sig	Site Condition	Notes	Site Context	Footprint
								Moderate ground surface visibility at the time of survey.	lying flat ridge top.	
AAPL_LM026	738.6	Flake	Quartzite	60%	Low	Low	Good	Quartzite whole flake on laterite ground surface adjacent to watercourse	Open woodland on laterite ground surface. Within 100m of watercourse	On edge of infrastructure corridor
AAPL_LM027	738.8	Flake	Quartzite, Quartz	70%	Low	Low	Fair	2 quartzite flake and 1 quartz flake. Located on sandy bank of watercourse, potential for some subsurface deposits. Likely part of a larger background scatter than extends down the eastern margin of the watercourse	Open woodland on sandy ground surface. Within 30m of watercourse	Within infrastructure corridor
AAPL_LM029	738.8	Flake	Quartzite	80%	Low	Low	Fair	Isolate quartzite artefact with medial fracture. Located on sandy bank of watercourse. Likely part of a larger background scatter than extends down the eastern margin of the watercourse	Open woodland on sandy ground surface. Within 30m of watercourse	On edge of infrastructure corridor
AAPL_LM030	746.4	Flake	Chert	70%	Low	Low	Good	Broken chert flake on laterite ground surface. Good ground surface visibility at the time of survey	Open woodland on laterite ground surface. Within 100m of watercourse	Within infrastructure corridor
AAPL_LM031	758.45	Flake	Chert	70%	Low	Low	Good	Whole chert flake on laterite ground surface. Good ground surface visibility at the time of survey	Open woodland on laterite ground surface.	Within infrastructure corridor

Representative Images - Isolated artefacts



Cultural Heritage Impact Assessment. AAPowerLink: Livingstone to Murrumujuk (Earthsea Pty Ltd)

Appendix 3: Map Figures of Cultural Heritage Features

Figures presenting the location of Aboriginal cultural heritage features have been removed to respect and protect the cultural sensitivities of the areas following consultation with Traditional Owners.

