Alice Springs - Darwin Railway Project

ALICE SPRINGS SECTION - ASR
DIXON CREEK SECTION - DCR
BUCHANAN HIGHWAY SECTION - BHR
KATHERINE SECTION - KR
ADELAIDE RIVER SECTION - ARR

Heritage Management Manual

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<th>Originator</th>
<th>Checked</th>
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<td>0</td>
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HOW TO USE THIS MANUAL

This manual identifies all heritage places for which Construction Constraints apply. Construction Constraints apply to heritage places that are situated either partially or wholly within the Railway Corridor generally defined as being 50 metres to either side of the centreline, (100 metres in width).

These places are of significance to the Northern Territory and may not be disturbed in any way by construction works or any other ancillary works associated with the Alice Springs to Darwin Railway.

Constraint plans identifying heritage places according to chainage and general conditions to ensure the preservation of these places are specified in this section.

It is important to note only heritage places, or that part thereof located within the 100m Railway Corridor are fenced and display identification plates.

HERITAGE LEGISLATION:

Heritage places specified below are protected under the Northern Territory of Australia Heritage Conservation Act 1991.

Under the Act it is an offence to alter, disturb or remove an object from these places without the consent of the Minister.

Penalties for breaching the Act for an individual are $10,000 or imprisonment for 12 months. Penalties for a body corporate are $200,000

Conditions to ensure that no breach of the Heritage Conservation Act occurs during works associated with the construction of the railway are provided below.

SUBJECT LAND:

Specifications for the Heritage Sites described below apply to the entire Railway Corridor from Alice Springs to Darwin being Chainage ASR 0.000 to ARR 103.360

Note that no heritage clearances have been provided for the portion of the Construction Corridor 150 metres to the east and 150 metres to the west of the Railway Corridor.
GENERAL CONDITIONS FOR HERITAGE AREAS:

The following activities are prohibited within the fenced boundaries of heritage places. These conditions relate to restricted areas and boundaries identified and fenced within the Railway Corridor and that portion of the Construction Corridor beyond the 100 metre Railway Corridor. Failure to comply with these conditions may result in a breach of the Heritage Conservation Act.

1. No earthworks of any kind are permitted within these areas.
2. No earth moving machinery of any kind may enter these areas.
3. No heavy vehicles or light vehicles such as four-wheel drives (4WD) may enter these areas.
4. No unauthorised personnel shall enter any part of that area.
5. No personnel shall disturb, alter or interfere with any part of that area.
6. No personnel shall remove any object from that area.

General conditions described above apply to heritage places at the following locations.

FENCING RESTRICTIONS FOR THE RAILWAY CORRIDOR:

Fencing is to follow the existing heritage perimeter as shown in the Heritage Constraint maps where the restricted area extends beyond the Railway Corridor edge.

If the restricted area extends to the boundary of the Railway Corridor then fencing at the edge of the Railway Corridor is permissible.
SUMMARY DETAILS OF HERITAGE CONSTRAINTS FOR CONSTRUCTION

Note that this is only a summary guide. See also relevant chainage section of this document.

<table>
<thead>
<tr>
<th>Chainage Locality *</th>
<th>Heritage place Identification*</th>
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<tr>
<td>ASR 282.700 - 283.300</td>
<td>HS ASR 4517 Osborne Dam AAPA Site</td>
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<tr>
<td>ASR 372.350 - 372.470</td>
<td>HS ASR 4521 Dixon Ck 2 AAPA Site</td>
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<tr>
<td>ASR 373.750 - 374.050</td>
<td>HS ASR 4522 Dixon Ck 3 AAPA Site</td>
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<td>ASR 379.450 - 379.540*</td>
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<tr>
<td>DCR 3.950 - 4.150</td>
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<tr>
<td>DCR 4.400 - 4.700</td>
<td>HS DCR 5007 Bannay Well</td>
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<td>DCR 23.200 - 23.370*</td>
<td>HS DCR 5000 Gillaft Ck Asf 02 - 1120 - 2001</td>
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<td>DCR 86.670 - 86.950*</td>
<td>HS DCR 5003 1007 Gann Bore 02 - 1120 - 2004</td>
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<td>DCR 120.370 - 120.550*</td>
<td>HS DCR 5016 Warrego Dam AAPA Site</td>
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<tr>
<td>DCR 178.800 - 179.200</td>
<td>HS DCR 5018 Sout Range 5 02 - 1120 - 2017</td>
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<td>DCR 392.800 - 392.900</td>
<td>HS DCR 5019 AAPA Site</td>
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<td>BHR 27.700 - 27.800</td>
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<td>BHR 272.465 - 272.625*</td>
<td>HS BHR 5510 Manbullo 6 02 - 1130 - 2006</td>
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<td>KR 20.110 - 20.290*</td>
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<td>KR 21.850 - 22.050*</td>
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<tr>
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<th>Identification Plate</th>
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<tr>
<td>40.420 - 40.520</td>
<td>1.960 - 2.650</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
<td>HS ARR 6502 Adelaide River</td>
<td>02 - 1310 - 2027 to 2031</td>
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<td>40.660 - 40.730</td>
<td>7.935 - 8.055</td>
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<td>130.720 - 130.870</td>
<td>158.045 - 158.078</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
<td>HS ARR 6502 Adelaide River</td>
<td>02 - 1310 - 2031</td>
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<td>131.270 - 131.414</td>
<td>162.200 - 163.000</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
<td>HS ARR 6502 Adelaide River</td>
<td>02 - 1310 - 2031</td>
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<tr>
<td>131.270 - 131.414</td>
<td>169.800 - 170.200</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
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<td>02 - 1310 - 2031</td>
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<tr>
<td>131.270 - 131.414</td>
<td>179.900 - 180.000</td>
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<td>HS ARR 6502 Adelaide River</td>
<td>02 - 1310 - 2031</td>
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<tr>
<td>131.270 - 131.414</td>
<td>183.510 - 183.610</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
<td>HS ARR 6502 Adelaide River</td>
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<td>131.270 - 131.414</td>
<td>187.660 - 187.770</td>
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<td>HS ARR 6502 Adelaide River</td>
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<tr>
<td>131.270 - 131.414</td>
<td>187.970 - 188.100</td>
<td>100 Heritage sites located within the Railway Corridor (100m)</td>
<td>HS ARR 6502 Adelaide River</td>
<td>02 - 1310 - 2031</td>
</tr>
</tbody>
</table>

* Only heritage sites or that part thereof located within the Railway Corridor (100m) are fenced and display identification plates.
ALICE SPRINGS SECTION

ASR 0.000 - 380.037

HERITAGE CONSTRAINT MAPS
ALICE SPRINGS SECTION  ASR 0.000 - 380.037

Chainage ASR 205.820 - 206.150    HS ASR 4509   (Refer to Map 02 - 1110 - 2024)
All works and associated activities must take place within a 80 metre wide corridor determined as being 50 metres east of the centreline and 30 metres west of the centreline.

Chainage ASR 208.600 - 209.100    HS ASR 4510   (Refer to Map 02 - 1110 - 2025)
All works and associated activities must take place within a 35 metre wide corridor determined as being 15 metres east of the centreline and 20 metres west of the centreline.

Chainage ASR 379.450 - 379.540    HS ASR 4523   (Refer to Map 02 - 1110 - 2016)
All works and associated activities must take place within a 75 metre wide corridor determined as being 25 metres east of the centreline and 50 metres west of the centreline.

NOTE:
The following chainages for Aboriginal Sacred Site restrictions are specific conditions of AAPA Certificate C2000 / 050 and protected under the NT Aboriginal Sacred Sites Act 1989.

These restricted areas also contain heritage sites protected under the NT Heritage Conservation Act 1991 and should be fenced in accordance with AAPA restrictions of certificate C2000 / 050.

<table>
<thead>
<tr>
<th>AAPA Restricted Chainages</th>
<th>AAPA Condition</th>
<th>Heritage site No.</th>
<th>Heritage Site name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASR 18.600 - 20.200</td>
<td>26, 27</td>
<td>HS ASR 4504</td>
<td>Ten Mile Bore 2</td>
</tr>
<tr>
<td>ASR 282.700 - 283.300</td>
<td>79</td>
<td>HS ASR 4517</td>
<td>Osbourne Dam 1</td>
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<tr>
<td>ASR 372.350 - 372.470</td>
<td>99</td>
<td>HS ASR 4521</td>
<td>Dixon Creek 2</td>
</tr>
<tr>
<td>ASR 373.750 - 374.050</td>
<td>102</td>
<td>HS ASR 4522</td>
<td>Dixon Creek 3</td>
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</table>
DIXON CREEK SECTION

DCR 0.000 - 451.538

HERITAGE CONSTRAINT MAPS
DIXON CREEK SECTION  DCR 0.000 - DCR 451.538

Chainage DCR 3.950 - 4.150  HS DCR 5006  (Refer to Map 02 - 1120 - 2000 )  BONNEY WELI
All works and associated activities must take place within a 100 metre wide corridor determined as being 50 metres east of the centreline 50 metres west of the centreline.

Chainage DCR 4.400 - 4.700  HS DCR 5007  (Refer to Map 02 - 1120 - 2005 )  BONNEY WELL
All works and associated activities must take place within a 100 metre wide corridor determined as being 50 metres east of the centreline 50 metres west of the centreline.

Chainage DCR 23.200 - 23.370  HS DCR 5000  (Refer to Map 02 - 1120 - 2001 )  GILBERT CR AJS
All works and associated activities must take place within a 80 metre wide corridor determined as being 30 metres east of the centreline 50 metres west of the centreline.

Chainage DCR 30.000 - 30.200  HS DCR 5001  (Refer to Map 02 - 1120 - 2002 )  GILBERT WELL
All works and associated activities must take place within a 100 metre wide corridor determined as being 50 metres east of the centreline 50 metres west of the centreline.

Chainage DCR 49.440 - 49.780  HS DCR 5002  (Refer to Map 02 - 1120 - 2003 )  LITTLE EDINBURGH
All works and associated activities must take place within a 70 metre wide corridor determined as being 20 metres east of the centreline and 50 metres west of the centreline.

Chainage DCR 86.870 - 86.950  HS DCR 5003  (Refer to Map 02 - 1120 - 2004 )  NO 7 GAT
All works and associated activities must take place within an 85 metre wide corridor determined as being 50 metres east of the centreline and 35 metres west of the centreline.
All works and associated activities within the Warrego Road Quarry must not infringe upon that place located on the western boundary of the Warrego Quarry lease.

All works and associated activities must take place within a 90 metre wide corridor determined as being 50 metres east of the centreline and 40 metres west of the centreline.

All works and associated activities must take place within a 100 metre wide corridor determined as being 50 metres east of the centreline and 50 metres west of the centreline.

NOTE:

The following chainages for Aboriginal Sacred Site restrictions are specific conditions of AAPA Certificate C2000 / 050 and protected under the NT Aboriginal Sacred Sites Act 1989.

These restricted areas also contain heritage sites protected under the NT Heritage Conservation Act 1991 and should be fenced in accordance with AAPA restrictions of certificate C2000 / 050.

<table>
<thead>
<tr>
<th>AAPA Restricted Chainages</th>
<th>AAPA Condition</th>
<th>Heritage site No.</th>
<th>Heritage Site name</th>
</tr>
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<tbody>
<tr>
<td>DCR 392.600 - 392.900</td>
<td>148</td>
<td>HS DCR 5019</td>
<td>Turpentine 1</td>
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</table>

AAPA Condition.
Heritage site No.
Heritage Site name.
Restricted Area
Railway centreline
Railway corridor
Construction corridor
Railway peg

Map No: 02-1120-2005
Site No: HS DCR 5007
Chainage: DCR 4.500

July 2002
Restricted Area
Railway centreline
Railway corridor
Construction corridor
Railway peg

Map No: 02-1120-2003
Site No: HS DCR 5002
Chainage: DCR 49.600
BUCHANAN HIGHWAY
SECTION
BHR 0.000 - 277.100
HERITAGE CONSTRAINT MAPS
BUCHANAN HIGHWAY SECTION  BHR 0.000 - 277.100

Chainage BHR 27.700 - 27.780  HS BHR 5503  (Refer to Map 02 - 1130 - 2026)

All works and associated activities must take place within a 95 metre wide corridor determined as being 50 metres east of the centreline and 45 metres west of the centreline.

Chainage BHR 272.465 - 272.625  HS BHR 5510  (Refer to Map 02 - 1130 - 2006)

All works and associated activities must take place within a 75 metre wide corridor determined as being 50 metres north east of the centreline and 25 metres south west of the centreline.

Chainage BHR 274.660 - 274.874  HS BHR 5513  (Refer to Map 02 - 1130 - 2007)

All works and associated activities must take place within a 77 metre wide corridor determined as being 50 metres north east of the centreline and 27 metres south west of the centreline.
Restricted Area
Railway centreline
Railway corridor
Railway peg

Map No: 02-1130-2007
Site No: HS BHR 5513
Chainage: BHR 272.800

0m 50m

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July 2002
KATHERINE SECTION

KR 0.000 - 203.284

HERITAGE CONSTRAINT MAPS
All works and associated activities must take place within a 70 metre wide corridor determined as being 50 metres north east of the centreline and 20 metres south west of the centreline.

All works and associated activities must take place within a 60 metre wide corridor determined as being 50 metres north east of the centreline and 10 metres south west of the centreline.

All works and associated activities must take place within a 75 metre wide corridor determined as being 50 metres north east of the centreline and 25 metres south west of the centreline.

All works and associated activities must take place within a 85 metre wide corridor determined as being 50 metres north east of the centreline and 35 metres south west of the centreline.

All works and associated activities must take place within a 65 metre wide corridor determined as being 50 metres north east of the centreline and 15 metres south west of the centreline with no disturbance to the original NAR formation.

All works and associated activities through the Burrundie Township Area must take place in accordance with Heritage Constraint maps:
Chainage KR 130.720 - 130.870  HS KR 6052  (Refer to Map 02 - 1210 - 2036)

All works and associated activities must take place within a 70 metre wide corridor determined as being 20 metres north east of the centreline and 50 metres south west of the centreline.

Chainage KR 131.270 - 131.414  HS KR 6053  (Refer to Map 02 - 1210 - 2037)

All works and associated activities must take place within the railway corridor as defined in the relevant constraint plan with no disturbance to the above ground and below ground explosive magazines. Heritage information signs are to be removed and salvaged by ADrail.

Chainage KR 147.820 - 147.860  HS KR 6060  (Refer to Map 02 - 1210 - 2021)

All works and associated activities must take place within a 20 metre wide corridor determined as being 10 metres north of the centreline and 10 metres south of the centreline through the original NAR cutting.


All works and associated activities must take place within a 62 metre wide corridor determined as being 12 metres north of the centreline and 50 metres south of the centreline.

Chainage KR 156.045 - 156.078  HS KR 6062  (Refer to Map 02 - 1210 - 2023)

All works and associated activities must take place within a 58 metre wide corridor determined as being 8 metres north of the centreline and 50 metres south of the centreline.

Chainage KR 162.200 - 163.000  HS KR 6065  TEMPORARY RESTRICTION

No works through the area known as Brocks Creek Declared Heritage Area. Any activity should be subject to consultation with the Project Archaeologist.

Chainage KR 169.800 - 170.200  HS KR 6067  TEMPORARY RESTRICTION

No works through the area known as Howley Railway Siding and Reservoir. Any activity should be subject to consultation with the Project Archaeologist.
Chainage KR 179.900 - 180.000  HS KR 6077  (Refer to Map 02 - 1210 - 2040 )

All works and associated activities must take place within an 85 metre wide corridor determined as being 50 metres north of the centreline and 35 metres south of the centreline.

Chainage KR 183.510 - 183.610  HS KR 6078  (Refer to Map 02 - 1210 - 2041 )

All works and associated activities must take place within an 85 metre wide corridor determined as being 50 metres north of the centreline and 35 metres south of the centreline.

Chainage KR 187.660 - 187.770  HS KR 6080  (Refer to Map 02 - 1210 - 2042 )

All works and associated activities must take place within an 75 metre wide corridor determined as being 25 metres north and 50 metres south of the centreline.

NOTE:

The following chainages for Aboriginal Sacred Site restrictions are specific conditions of AAPA Certificate C2000 / 050 and protected under the *NT Aboriginal Sacred Sites Act 1989*. These restricted areas also contain heritage sites protected under the *NT Heritage Conservation Act 1991* and should be fenced in accordance with AAPA restrictions of certificate C2000 / 050.

<table>
<thead>
<tr>
<th>AAPA Sacred Site</th>
<th>AAPA Condition</th>
<th>Heritage site No.</th>
<th>Heritage Site name</th>
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</thead>
<tbody>
<tr>
<td>5369 - 0023</td>
<td>157</td>
<td>HS ASR 6016</td>
<td>Leight Creek 8</td>
</tr>
</tbody>
</table>
Refer to Map 02-1210-2034

Refer to Map 02-1210-2035

Restricted Area
Railway centreline
Railway corridor
Railway peg

Map No: 02-1210-2033
Site No: HS KR 6051
Chainage: KR 130.000

Burrunde Township
Restricted Area
Railway centreline
Railway corridor
Railway peg

Map No: 02-1210-2035
Site No: HS KR 6051
Chainage: KR 130.300

ADrail
Above Ground Explosives Magazine

Underground Explosives Magazines

The Burrundie Explosives Magazines are not located within the AARC Railway Corridor. These structures have been excised from the Railway Corridor. All construction works are prohibited within these excised areas and corridor fencing shall follow the excised boundaries. Heritage information signs are to be removed by Adrail.

Note:

Restricted Area
Railway centreline
Railway corridor
Railway peg

Map No: 02-1210-2037
Site No: HS KR 6053
Chainage: KR 131.300

July 2002
Fenceline Wooden poles

Ramp

35 metres

50 metres

35 metres

8 metres

15 metres

15 metres

50 metres

Ban Ban Springs Stn

Stuart Highway

Map No: 02-1210-2023
Site No: HS KR 6062
Chainage: KR 156.050

Restricted Area
Railway centreline
Railway corridor
Railway peg
Concrete foundations

Borrow pit area

Fenceline

50 metres

25 metres

25 metres

Restricted Area
Railway centreline
Railway corridor
Railway peg

Map No: 02-1210-2042
Site No: HS KR 6080
Chainage: KR 187.700
ADELAIDE RIVER SECTION

ARR 0.000 - 103.000

HERITAGE CONSTRAINT MAPS
ADELAIDE RIVER SECTION  ARR 0.000 - 103.000

Chainage ARR 1.960 - 2.650   HS ARR 6502   (Refer to Map 02 - 1310 - 2027)

All works and associated activities through the Adelaide River Railway Precinct must take place in accordance with Constraint maps:

Chainage ARR 1.960 - 2.060   HS ARR 6502   (Refer to Map 02 - 1310 - 2028)

Chainage ARR 2.150 - 2.250   HS ARR 6502   (Refer to Map 02 - 1310 - 2029)

Chainage ARR 2.250 - 2.420   HS ARR 6502   (Refer to Map 02 - 1310 - 2030)

Chainage ARR 2.618 - 2.631   HS ARR 6502   (Refer to Map 02 - 1310 - 2031)

NOTE: Remnant NAR track and embankment and the Old Adelaide River Bridge are Declared Heritage Places and legally protected features. These features may not be disturbed in any unnecessary way during construction. All construction activities of any kind, and all vehicles are to be confined to the area between remnant NAR track, embankment and bridge and the existing Stuart Highway.

Fencing of the Railway Corridor through the Adelaide River Precinct may require alteration to the heritage permit.

Chainage ARR 7.935 - 8.055   HS ARR 6521   (Refer to Map 02 - 1310 - 2020)

All works and associated activities must take place within a 75 metre wide corridor determined as being 50 metres east of the centreline and 25 metres west of the centreline.

Chainage ARR 20.460 - 20.660   HS ARR 6507   (Refer to Map 02 - 1310 - 2018)

All works and associated activities must take place within a 68 metre wide corridor determined as being 50 metres east of the centreline and 18 metres west of the centreline.

Chainage ARR 21.360 - 21.570   HS ARR 6508   (Refer to Map 02 - 1310 - 2019)

All works and associated activities must take place within an 80 metre wide corridor determined as being 50 metres east of the centreline and 30 metres west of the centreline.
05-1000-0114 Rev0
July 2002

Map No: 02-1310-2019
Site No: HS ARR 6508
Chainage: ARR 21.500

Restricted Area
Railway centreline
Railway corridor
Railway peg

30 metres
50 metres

ARR 21.570
ARR 21.550
ARR 21.500
ARR 21.400
ARR 21.380
ARR 21.360

0m 50m
GLOSSARY:

CONSTRUCTION CORRIDOR The corridor of land extending 200m either side of the railway centre-line.

CENTRELINE means the railway centreline determined by the chainage pegs and as marked on the maps in the attachments.

DECLARED HERITAGE PLACE are places that are considered to possess special significance to the Northern Territory. The criteria for assessing whether a place possesses special significance provides for cultural heritage and natural heritage values.

HERITAGE PLACE includes Declared Heritage Places, historic sites and prescribed archaeological places and objects.

HERITAGE CONSERVATION ACT a legislation to provide a system for the identification, assessment, recording, conservation and protection of places and objects of prehistoric, protohistoric, historic, aesthetic or scientific value.

Two types of heritage places within the Northern Territory are protected under the provisions of the Act. These are Declared Heritage Places and prescribed archaeological places and objects.

HISTORIC SITES are localities that were a focus of European or Chinese activity. Historic sites may contain structural remains, concentrations of metal, glass and ceramic artefacts. For the purposes of the Alice Springs to Darwin Railway, only sites that date to the end of the Second World War are considered to be historic sites.

PRESCRIBED ARCHAEOLOGICAL PLACE (Archaeological Place) are places or sites containing painting or rock carvings, prehistoric or proto-historic occupation places, human remains or burial artefacts (not being cemeteries as defined by the Cemeteries Act).
RAILWAY CORRIDOR refers to that part of the Construction Corridor of variable width, but typically extending to 50m either side of the centre-line, to which land title has been granted and within which the railway embankment and permanent railway operations infrastructure are to be located.

UNAUTHORISED PERSONNEL. Any person except the Project Archaeologist, Environmental Manager or Officer or their consented representative, a representative of the Heritage Conservation Branch, Northern Territory Department of Lands Planning and Environments, Aboriginal Custodians, a representative of the Aboriginal Areas Protection Authority or the Central and Northern Land Councils.

UNRESTRICTED CORRIDOR. Those parts of the Construction Corridor within which there are various sacred sites restrictions or Aboriginal Custodian notification requirements affecting the locations of borrow pits, access roads and temporary construction camps.