

# **Environmental Protection Authority**

EPA REFERRAL FORM PROPONENT

Referral of a Proposal by the Proponent to the Environmental Protection Authority under Section 38(1) of the *Environmental Protection Act 1986*.

#### PURPOSE OF THIS FORM

Section 38(1) of the *Environmental Protection Act 1986* (EP Act) provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the EP Act. This form sets out the information requirements for the referral of a proposal by a proponent.

Proponents are encouraged to familiarise themselves with the EPA's *General Guide* on *Referral of Proposals* [see Environmental Impact Assessment/Referral of Proposals and Schemes] before completing this form.

A referral under section 38(1) of the EP Act by a proponent to the EPA must be made on this form. A request to the EPA for a declaration under section 39B (derived proposal) must be made on this form. This form will be treated as a referral provided all information required by Part A has been included and all information requested by Part B has been provided to the extent that it is pertinent to the proposal being referred. Referral documents are to be submitted in two formats – hard copy and electronic copy. The electronic copy of the referral will be provided for public comment for a period of 7 days, prior to the EPA making its decision on whether or not to assess the proposal.

#### CHECKLIST

Before you submit this form, please check that you have:

	Yes	No
Completed all the questions in Part A (essential).	X	
Completed all applicable questions in Part B.	X	
Included Attachment 1 – location maps.	X	
Included Attachment 2 – additional document(s) the proponent wishes to provide (if applicable).	X	
Included Attachment 3 – confidential information (if applicable).		X
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but excluding confidential information.	Х	

Note of the Environmental Protection Authority	***************************************	1 4 NOV 2014	Tor	For Discussion		Dir.AC Response please;	Dir Bus Ops GM Supering	Die Steip Die tea eing	Water to	
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following question (a response is optional). Do you consider the proposal requires formal environmental impact assessment? ⊠ No Not sure Yes If yes, what level of assessment? **Public Environmental Review** Assessment on Proponent Information **PROPONENT DECLARATION** (to be completed by the proponent) I RAYMOND PETER FEMAN (full name) declare that I am authorised on behalf of Public Transfell Author 7 (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading. RAY JEMM Name (print) Signature PUBLIC TRANSPORT AUTHORITY Position Company FORFETTFIELD - AIRPORT LINK

Date

Following a review of the information presented in this form, please consider the

## **PART A - PROPONENT AND PROPOSAL INFORMATION**

(All fields of Part A must be completed for this document to be treated as a referral)

# 1 PROPONENT AND PROPOSAL INFORMATION

## 1.1 Proponent

Name	Public Transport Authority of Western Australia
Joint Venture parties (if applicable)	NA
Australian Company Number (if applicable)	NA
Postal Address (where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)	PO Box 8125 Perth Business Centre WA 6849
Key proponent contact for the proposal:	Paul Monaghan FAL A/Environmental Manager, PTA Public Transport Centre West Parade Perth Phone: (08) 9326 3927 Email: paul.monaghan@pta.wa.gov.au
Consultant for the proposal (if applicable):	NA

# 1.2 Proposal

Title	Forrestfield-Airport Link
	'
Description	The FAL is a 9km extension of the
	Perth rail network from Bayswater to
	Forrestfield (comprising approximately
	8km of bored tunnels). It comprises an
	integral component of Perth's long term
	public transport network and has been
	designed to meet existing and future
	transport demands through improving
	connectivity between Perth's eastern
	suburbs, Perth Airport and the
	associated business hubs and the
	Perth CBD.
	The FAL Project will include three new
	stations as described below:
	<ul> <li>Airport West Station - located</li> </ul>
	outside the western boundary of
	the airport within the Brearley
	Avenue Road reserve. This station
	will have below ground platforms
	with the station at the surface
	similar to the Esplanade Station in
	Similar to the Esplanate Station in

	Perth.  Consolidated Airport Station - located at the current International Terminal on Commonwealth land. This station will be underground similar to the Perth Underground Station in the CBD. This station is not relevant to this Section 38 referral.  Forrestfield Station - located adjacent to Dundas Road in High Wycombe. This station will be at the existing ground level.
	Car parking, bus, pedestrian, taxi and cycle access facilities will be provided at Airport West and Forrestfield Stations. Forrestfield Station also includes a train stabling facility which is a minor maintenance depot where the trains are parked overnight and cleaned.
	Infrastructure to allow for safe egress from the tunnels will be constructed along the alignment; specifically Emergency Egress Shafts which link the tunnels to the surface and Cross Passages which provide an underground link between the two tunnels. Ancillary works will also be required to facilitate successful delivery of the project including relocation of underground services and amendments to the road network in the vicinity of the project area.
Extent (area) of proposed ground disturbance.	On state land only:  Approval Boundary: 65 ha
	Ground/Surface Disturbance Footprint: 45.6 ha

Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable).	<ul> <li>Q3 2015: Early Works Commence</li> <li>Q3 2016: Award of Main         Construction Contract     </li> <li>Q4 2016: Commence Construction             Works</li> <li>Q3 2017: Commence Tunnel             Boring</li> <li>Q2 2019: Complete Tunnel Boring</li> <li>Q4 2019: Complete Construction             Works and Commence             Commissioning</li> <li>Q3 2020: Project Complete</li> </ul>
Details of any staging of the proposal.	The majority of the construction works will be procured using a Design and Construct contract and delivered by a lead contractor. The PTA will prepare the reference design for the project prior to the main construction contract being awarded. The lead contractor will be responsible for the detailed design and construction of the infrastructure. Construction works are anticipated to commence in Q4 2016.
	The PTA is proposing to deliver some of the works as early works packages ahead of the main construction contract being awarded to facilitate successful delivery of the project. This is likely to be associated with the ancillary works and primarily relocation of underground services. These works are anticipated to commence in Q3 2015.
Is the proposal a strategic proposal?	No
Is the proponent requesting a declaration that the proposal is a derived proposal?  If so, provide the following information on the strategic assessment within which the referred proposal was identified:  • title of the strategic assessment; and  • Ministerial Statement number.	No
Please indicate whether, and in what way, the proposal is related to other proposals in the region.	The project is not related to any other proposals in the region.

Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?

No. The PTA has an in house Land Tenure team which will be responsible for arranging access to the land in consultation with the Department of Lands. Access requirements vary depending on the type of land ownership. In some areas the management of the land will be transferred to the PTA from other government agencies. Private land will negotiation with acquired via affected land owners. Where the tunnels are proposed, there is no requirement for the PTA to own the land.

What is the current land use on the property, and the extent (area in hectares) of the property?

The proposal is a 9km linear development traveling under a number of different properties and land uses including:

- Crown land
- Freehold
- Lease
- Rail Reserve
- Road Reserve

The approval footprint for the alignment comprises 112.7 ha of which 65 ha is located on state land.

## 1.3 Location

Name of the Shire in which the proposal is located.	Shire of Kalamunda City of Bayswater City of Belmont
For urban areas:	Correspondence with the EPA has indicated that this information is not required to be provided due to the large linear extent of the project. Spatial data is provided with the referral and Attachment 1 shows the location of the project.
For remote localities:	NA
<ul> <li>Electronic copy of spatial data - GIS or CAD, geo-referenced and conforming to the following parameters:</li> <li>GIS: polygons representing all activities and named;</li> <li>CAD: simple closed polygons representing all activities and named;</li> <li>datum: GDA94;</li> <li>projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA);</li> <li>format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD.</li> </ul>	Enclosed?: Yes, GIS data enclosed.

## 1.4 Confidential Information

Does the proponent wish to request the EPA to allow any part of the referral information to be	
treated as confidential?	
If yes, is confidential information attached as a	
separate document in hard copy?	NA

# 1.5 Government Approvals

Is rezoning of any land required before the proposal can be implemented?  If yes, please provide details.	Yes. The Metropolitan Region Scheme will require amendment to reflect the change in land use in part of the project area.
Is approval required from any Commonwealth or State Government agency or Local Authority for any part of the proposal?  If yes, please complete the table below.	Yes

Agency / Authority	Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal
Commonwealth Department of the Environment	Referral of Proposed Action under the Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act)	No	Matt Barwick Assistant Director South West Division Environment Assessment and Compliance Division Phone (02) 6274 2332
Commonwealth Department of Infrastructure and Regional Development	Major Development Plan under the Airports Act 1996	No	Margaret Smythe Section Head South West Airports Airports & Aviation Division Department of Infrastructure & Regional Development Phone (02) 62747410
Department of Planning	MRS Amendment  – Forrestfield  Station	No	The MRS process won't commence until land acquisition has been completed. Consequently only informal initial liaison has been undertaken with the Department of Planning (Anthony Muscara) to date.
Department of Parks and Wildlife	Permit to take DRF under the Wildlife Conservation Act 1950	No	Anthea Jones Acting Senior Botanist Species and Communities Branch Department of Parks and Wildlife
	Translocation Proposal under the Wildlife Conservation Act 1950	No	Anthea Jones Acting Senior Botanist Species and Communities Branch Department of Parks and Wildlife
	License to take fauna under the Wildlife Conservation Act 1950	No	David Lodwick Regional Leader Land Use Planning Department Parks and Wildlife, Swan Region Phone: 9442 0336
Department of Water	Dewatering license under the Rights in Water and Irrigation Act 1914	No	James Mackintosh Program Manager Land Use Planning Department of Water Swan Avon Region Phone (08) 6250 8043 Email james.mackintosh@water.wa.gov.au
	Bed and Banks Permit	No	James Mackintosh Program Manager Land Use Planning Department of Water Swan Avon Region Phone (08) 6250 8043 Email james.mackintosh@water.wa.gov.au

Department of Water	26D license to construct a bore under the Rights in Water and Irrigation Act 1914  5C license to take water under the Rights in Water and Irrigation Act 1914	No	James Mackintosh Program Manager Land Use Planning Department of Water Swan Avon Region Phone (08) 6250 8043 Email james.mackintosh@water.wa.gov.au  James Mackintosh Program Manager Land Use Planning Department of Water Swan Avon Region Phone (08) 6250 8043 Email james.mackintosh@water.wa.gov.au
Department of Aboriginal Affairs	Section 18 Notice under the Aboriginal Heritage Act 1972	No	Cesar Rodriguez Manager Approvals & Advice Department of Aboriginal Affairs Phone (08) 6551 8092
Department of Environment Regulation	Construction Noise and Vibration Management Plan and Operational Noise and Vibration Management Plan	No	Formerly John Macpherson New contact Jingnan Guo Environmental Noise Officer Department of Environment Regulation Phone (08) 6467 5280
	Construction Environmental Management Plan	No	Department of Environment Regulation
	Native Vegetation Clearing Permit Application	No	Jane Clarkson Manager Clearing Regulation Department of Environment Regulation
	Detailed Site Investigation	No	Bill Richmond Environmental Officer Department of Environment Regulation Contaminated Sites Branch Phone (08) 9333 7588
	Site Management Plan	No	Bill Richmond Environmental Officer Department of Environment Regulation Contaminated Sites Branch Phone (08) 9333 7588
	Acid Sulfate Soils and Dewatering Management Plan	No	Bill Richmond Environmental Officer Department of Environment Regulation Contaminated Sites Branch Phone (08) 9333 7588
	Works Approval and licences for spoil reuse (if required)	No	Department of Environment Regulation

#### PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

#### 2. ENVIRONMENTAL IMPACTS

Describe the impacts of the proposal on the following elements of the environment, by answering the questions contained in Sections 2.1-2.11:

- 2.1 flora and vegetation;
- 2.2 fauna:
- 2.3 rivers, creeks, wetlands and estuaries;
- 2.4 significant areas and/ or land features;
- 2.5 coastal zone areas:
- 2.6 marine areas and biota;
- 2.7 water supply and drainage catchments;
- 2.8 pollution;
- 2.9 greenhouse gas emissions;
- 2.10 contamination; and
- 2.11 social surroundings.

These features should be shown on the site plan, where appropriate.

For all information, please indicate:

- (a) the source of the information; and
- (b) the currency of the information.

#### 2.1 Flora and Vegetation

2.1.1 Do you propose to clear any native flora and vegetation as a part of this proposal?

[A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations 2004)]. Please contact the Department of Environment and Conservation (DEC) for more information.

(please tick)	✓ Yes	If yes, complete the rest of this section.
	☐ No	If no, go to the next section

2.1.2 How much vegetation are you proposing to clear (in hectares)?

The proposal will involve clearing 2.47 ha of vegetation in Good or better condition as summarised in the table below.

Vegetation Condition	Area recorded on sta	te land (ha)	
	Area Surveyed	Approval Boundary	Surface Disturbance Footprint
Pristine	0.00	0.00	0.00
Excellent	5.93	2.24	2.24
Very Good	5.86	0.22	0.01
Good to Very Good	1.97	0.35	0.22
Good	1.73	0.04	0.00
Good to Degraded	2.38	0.04	0.00
Degraded	6.82	0.43	0.21
Degraded to Completely Degraded	7.65	2.28	0.56
Completely Degraded	141.28	42.23	36.49
Inaccessible/not assessed	15.03	6.78	2.20
TOTAL	188.65	54.61	41.93

	completely beginned	1-1.20	72.23	30173			
	Inaccessible/not assessed	15.03	6.78	2.20			
	TOTAL	188.65	54.61	41.93			
	Have you submitted an application to clear native vegetation to the DEC (unless you are exempt from such a requirement)?						
	☐ Yes ✓ No		at date and to wubmitted of the D	hich office was the DEC?			
	Discussions have been unde should a clearing permit be n required and consequently, the Section 38 referral has been	ecessary. It is antic ne PTA proposes to	pated that a clea	ring permit will be			
2.1.4	Are you aware of any recent fl by this proposal?	ora surveys carri	ed out over the	area to be disturbed			
	✓ Yes	survey report	· · · · · · · · · · · · · · · · · · ·	py of any related he date and name involved in the			
			veys conducted	nge to have any prior to consulting			
	Flora surveys undertaken to	date include:					
	Attachment 2, Appendix 1 - F 2014)	Forrestfield-Airport L	_ink Environmenta	al Investigation (GHD,			
	Attachment 2, Appendix 3 - A foreshore site (Morgan, 2014		egetation survey	of the Bayswater			

Occurrence Assessment (Glevan Consulting, 2014)

Attachment 2, Appendix 4 - Forrestfield Airport Link - Phytophthora Dieback

Attachment 2, Appendix 6 - Spring Field Survey - Interim Findings (RPS, 2014)

Attachment 2, Appendix 8 - Fauna Survey of the Proposed Forrestfield-Airport Link Swan River Crossing (Bamford Consulting Ecologists, 2014)

Additional data has also been sourced from reports which were not commissioned by the PTA. The PTA was given access to the data from these reports on the basis that the reports are not published. The data sourced from these reports has been published in this report and used as part of this referral. These are as follows:

A Vegetation and Flora survey undertaken for an area within and adjacent to the Forrestfield Station Precinct (Brian Morgan, 2013).

Flora, vegetation and fauna surveys undertaken within Perth Airport in 2007 (Mattiske Consulting, 2008), 2012 (Ecologia Environment, 2013) and 2013 (Bamford Consulting Ecologists, 2013).

When combined, the areas assessed by various consultants covers the majority of the Approval Boundary, with the only data gaps occurring in cleared or degraded areas such as pasture, rail or road reserves in which ecological surveys were not considered necessary.

2.1.5			for known occurrences of rare or priority flora or es been conducted for the site?
	✓ Yes	] No	If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.
		•	es in November 2012 (Appendix B of GHD's port (Appendix 1 of Attachment 2)
			DPaW's database of declared rare flora and ies in September 2014
2.1.6	Are there any known o communities on the site		es of rare or priority flora or threatened ecological
	✓ Yes	] No	<b>If yes</b> , please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.
	Rare or Priority Flora		
	The GHD 2014 Env	rironmenta	I Investigation Report (Appendix 1 of Attachment 2)

identified the following rare or priority species along the alignment:

Conospermum undulatum

Eucalyptus caesia

#### Calothamnus rupestris

The Conospermum undulatum (Wavy leaved smokebush) is listed as Vulnerable under the Wildlife Conservation Act 1950. Thirty seven (37) individual plants were recorded within the following vegetation:

- Remnant Eucalyptus marginata / E. rudis / Corymbia calophylla woodland over a mid-storey and understorey of mixed native species' (Bush Forever Site 45) contains 12 individuals
- Sparse woodland of *Corymbia calophylla* over *Xanthorrhoea preissii* and low shrubs, sedges and herbs' contains 25 individuals (over two locations)

Calothamnus rupestris is listed under the Wildlife Conservation Act 1950 as a Priority 4 species. Scattered occurrences of Calothamnus rupestris were recorded within the 'low open woodland of remnant Eucalyptus marginata and Banksia spp. Over a native mid storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs'.

Eucalyptus caesia is listed under the Wildlife Conservation Act 1950 as a Priority 4 species and was identified in roadside plantings along Dundas Road, High Wycombe.

Both of these priority species have commonly been planted in landscaping and revegetation works on the Swan Coastal Plain and have become naturalised outside their normal range. Consequently, it is considered likely that the presence of these two species within the proposed alignment is not natural and any impacts will not be significant.

#### Threatened Ecological Communities

The GHD 2014 Environmental Investigation Report (Appendix 1 of Attachment 2) identified vegetation types within and adjacent to the Approval Boundary with potential affinities to one or more Threatened Ecological Communities (TECs). To further clarify these findings, the PTA undertook further consultation with the Department of Parks and Wildlife (DPaW) to confirm which TECs (if any) the vegetation types were most closely associated with.

As part of this consultation, Val English and Jill Pryde (Species and Communities Branch, DPaW) undertook a site visit with PTA on 27 March 2014. Soil and landform units and observations of substrate, combinations of key species and overall species composition were utilised to clarify the floristic community types (FCT) present. Correspondence with DPaW is provided as Appendix 2 of Attachment 2).

Those TECs considered likely to occur within and adjacent to the Approval Boundary based on information from GHD and DPaW are summarised below:

- SCP20a Banksia attenuata woodland over species rich dense shrublands
- <u>SCP20a/SCP20b</u> Banksia attenuata woodland over species rich dense shrublands / Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain
- <u>SCP20c</u> Shrublands and woodlands of the eastern side of the Swan Coastal Plain

A survey undertaken by Brian Morgan in 2014 along the Swan River identified a potential Priority Ecological Community. Saltmarsh vegetation was identified as falling within the description for 'Subtropical and Temperate Coastal Saltmarsh'. This community is listed as a Priority 3 PEC under the *Wildlife Conservation Act 1950*.

During the design process for the proposal, the following TECs were identified for retention and protection:

- Poison Gully Creek was identified for retention during the initial assessment of environmental values as part of the design process (due to its wetland values, TECs, rare flora, fauna habitat and Aboriginal heritage), allowing for retention and protection of 2.96ha of SCP20a
- It was identified that 3.51 ha of SCP20c was located within the proposed car park and construction footprint. The car park was consequently redesigned to avoid this area.
- Significant vegetation along the Swan River, such as 'Subtropical and Temperate Coastal Saltmarsh' was identified as requiring retention and protection. This was achieved through selection of the bored tunnel construction method and the design of the surface construction footprints.

A number of design options for the rail infrastructure were considered in an attempt to avoid all direct impacts to TECs. However, due to the constrained area of the Forrestfield Station Precinct with existing rail, roads and services, none of the options considered were able to entirely avoid the TECs. Given the area of vegetation comprising the TECs is already minimal and isolated, it was considered that any reduction in area is likely to reduce the future viability of the community through edge effects such as weed invasion. PTA prepared an internal report to document the design options considered to avoid all direct impacts to TECs (Appendix 16 of Attachment 2).

The impacts to TECs from the proposal are summarised below:

TEC	Area Impacted (ha)	Area Avoided (ha)
SCP20a	-	2.96
SCP20a/20b	1.72	-
SCP20c	0.75	3.51
Subtropical and Temperate Coastal Saltmarsh	-	3.16

Further information is provided in Attachment 2.

2.1.7	If located within the Perth Metropolitan Region, is the proposed development within
	or adjacent to a listed Bush Forever Site? (You will need to contact the Bush
	Forever Office, at the Department for Planning and Infrastructure)

•	Yes	☐ No	<b>If yes</b> , pl	ease	indicate	which	Bush	Foi	ever	Site is
		_	affected	(site	number	and	name	of	site	where
			appropria	ate).						

Bush Forever Site 45 – part of this site occurs adjacent to the construction footprint of the Forrestfield Station Precinct (refer Attachment 2, Figure 14). Management measures to avoid direct impacts to this site will be outlined in the project's Construction Environmental Management Plan. These will include but not be limited to:

- Interface treatments, including fencing and set backs
- Management of access

- Design of construction sites to ensure no machinery is parked near significant vegetation
- Significant vegetation will be clearly marked on all construction plans as 'no go zones'
- Suitable hygiene measures
- Groundwater level monitoring to ensure drawdown levels remain within the ranges specified within the ASSDMP.
- Groundwater quality monitoring to ensure groundwater quality is maintained at concentrations specified within the ASSDMP.
- Adopting contingency measures such as watering to ensure there are no detrimental impacts to the ecological health of the vegetation.

Further information is provided in Attachment 2.

#### 2.1.8 What is the condition of the vegetation at the site?

Vegetation Condition within the Approval Boundary ranges from Completely Degraded to Excellent as outlined in the table below.

Vegetation Condition	Area recorded on sta	ite land (ha)	
	Area Surveyed	Approval Boundary	Surface Disturbance Footprint
Pristine	0.00	0.00	0.00
Excellent	5.93	2.24	2.24
Very Good	5.86	0.22	0.01
Good to Very Good	1.97	0.35	0.22
Good	1.73	0.04	0.00
Good to Degraded	2.38	0.04	0.00
Degraded	6.82	0.43	0.21
Degraded to Completely Degraded	7.65	2.28	0.56
Completely Degraded	141.28	42.23	36.49
Inaccessible/not assessed	15.03	6.78	2.20
TOTAL	188.65	54.61	41.93

The project was designed to avoid vegetation in Good or better condition where possible, resulting in over 88% of the vegetation within the areas of surface disturbance being Degraded to Completely Degraded.

Further information is provided in Attachment 2.

#### 2.2 Fauna

2.2.1 Do you expect that any	y fauna or fauna	habitat will be im	pacted by the	proposal?
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(please tick)	✓ Yes	If yes, complete the rest of this section.
	☐ No	If no, go to the next section.

2.2.2 Describe the nature and extent of the expected impact.

The GHD 2014 Environmental Investigation Report (Appendix 1 of Attachment 2) and the 2014 Bamford Consulting Ecologists Fauna Survey of the Proposed Forrestfield-Airport Link Swan River Crossing (Appendix 8 of Attachment 2) identified four significant fauna species along the alignment:

- Carnaby's Black Cockatoo (Calyptorhynchus latirostris)
- Forest Red tailed Black Cockatoo (Calyptorhynchus banksia subsp. naso)
- Quenda (Isoodon obesulus subsp. fusciventer)
- Water rat (Hydromys chrysogaster)

The nature and extent of expected impact to these species is discussed in more detail below:

#### **Black Cockatoos**

Site surveys identified the following potential black cockatoo habitat:

- A total of 21.7 ha of potential foraging or roosting habitat. However, due to the proposed construction methodology (bored tunnel), 3.56 ha (16.4% of habitat identified during surveys) will be impacted
- 85 potential habitat trees were identified of which only 15 will be impacted
- Of the 15 potential habitat trees, only 10 were considered potential breeding trees and of these, none had suitable hollows

#### Quenda

The Quenda (*Isoodon obesulus fusciventer*) is listed as Priority 5 species under the *Wildlife Conservation Act 1950*. The GHD 2014 Environmental Investigation Report (Appendix 1 of Attachment 2) identified 19.5 ha of potential Quenda habitat of which 5.3 ha is located within the construction footprint. This is in the Forrestfield Station where GHD observed a Quenda foraging beneath a thicket of Victorian tea tree. Potential Quenda habitat within the Forrestfield Station footprint includes:

- Sparse Woodland of Corymbia calophylla over Xanthorrhoea preissii and low shrubs, sedges and herbs
- Remnant *Eucalyptus marginata/E. rudis/Corymbia calophylla* Woodland over a mid-storey and understorey of mixed native species
- Plantings of non-native species over an understorey of weedy grasses and herbs

#### Water Rat

The Water Rat is listed as a Priority 4 species under the *Wildlife Conservation Act* 1950.

During the Bamford Consulting Ecologists Fauna Survey of the Proposed Forrestfield-Airport Link Swan River Crossing (Appendix 8 of Attachment 2) signs of the Water Rat were identified along the Swan River near the Tonkin Highway crossing. The thick reed and wetland habitat along the river is likely to provide a stronghold for the species amongst the developed areas of the Swan River. During the survey, 18.35 ha of this habitat type was identified, none of which will be impacted by the project.

A summary of impacts to fauna and fauna habitat is tabulated below

Potential Fauna Habitat	Habitat Impacted	Habitat Avoided		
Black Cockatoo foraging habitat	3.56 ha	18.14 ha (84% of that identified on state land)		
Black Cockatoo potential	15 trees	70 trees (82% of those identified on state land)		
habitat trees				
Quenda habitat	5.3 ha	14.2 ha (73% of that identified on state land)		
Water rat habitat	-	18.35 ha (100% of that identified on state land)		

Further information is provided in Attachment 2.

2.2.3	Are you aware of an disturbed by this propos		surveys	carried	out over	the	area	to be
	✓ Yes [	report	, please <u>at</u> ts and <u>prov</u> ns / compa	<u>ride</u> the o	date and	name	e of	-
		biolog	please do gical survey ne DEC.		•		•	ng
	Fauna surveys under	taken to date inc	lude:					
	Attachment 2, Appen 2014)	dix 1 - Forrestfiel	d-Airport Lii	nk Enviro	nmental Ir	vesti	gation (	GHD,
	Attachment 2, Appen Swan River Crossing					ld-Air	port Lir	ık
2.2.4	Has a search of DE((threatened) fauna bee			currence	s of Spe	eciall	y Prot	ected
	✓ Yes [	☐ No (pleas	se tick)					
	GHD undertook desk Environmental Invest	-				GHD	S	

2.2.5	Are the site?	ere any known	occurrenc	es of Spe	cially Pro	tected (thr	eatened)	fauna or	า the
	•	Yes	□ No	commun	ities are	indicate involved a nce with [	nd provi	de copies	
		e following black vironmental Inve				•	ne GHD 2	014	
		Two Carnaby' along Tonkin		ckatoos we	re observ	ed flying ov	er the sur	vey area s	outh
		<ul> <li>A small flock of Forrestfield ar</li> </ul>	•						
		<ul> <li>A female and juvenile Forest Red tailed Black Cockatoo were observed foraging within Poison Gully Creek</li> </ul>							
		Foraging evid	ence was o	bserved wi	thin wood	land habitat	s within t	ne survey	area
	Site	e surveys also id	entified the	following p	otential bl	ack cockate	oo habitat	:	
		<ul> <li>A total of 21.7 proposed con- identified during</li> </ul>	struction m	ethodology	(bored tu				
		<ul> <li>85 potential habitat trees were identified of which only 15 will be impacted</li> </ul>							
		Of the 15 pote trees and of the contract			•	considered	l potentia	breeding	
2.3	Rivers,	Creeks, Wetla	nds and E	stuaries					
2.3.1	Will the	e development o	occur withi	n 200 me	tres of a r	iver, creek	k, wetland	d or estua	ıry?
	(	(please tick)	✓ Yes	s If y	es, comp	lete the re	st of this	section.	
			☐ No	lf n	<b>o</b> , go to t	he next se	ction.		

2.3.2 Will the development result in the clearing of vegetation within the 200 metre zone?

✓ Yes □ No If yes, please describe the extent of the expected impact.

Surface water	Vegetation clearing required	Comments	
Resource Enhancement Wetland (UFI15876)	This wetland and associated vegetation will be cleared as part of the proposal.		
Resource Enhancement Wetland (UFI15880) – Poison Gully Creek  Clearing within the Forrestfie Station construction footpri comprises 27.75 ha. Of thi 22.77 ha (over 80%) Completely Degraded.		This wetland is located adjacent to part of the Forrestfield Station construction footprint which requires clearing. There will be no clearing of the vegetation that comprises the wetland.	
Swan River and associated conservation category wetlands (UFI13316, UFI8586, UFI8422, UFI8420)	The area of surface disturbance associated with Cross Passage 2 (refer Attachment 2, Figure 3) is within 200m of the Swan River and associated wetlands. Construction of this cross passage will involve clearing 0.21 ha of vegetation. This vegetation is on the embankment for the Tonkin Highway road bridge in an area of Completely Degraded vegetation.	These wetlands are within 200 m of small construction areas. There will be no clearing of the vegetation that comprises the wetland.	
	The area of surface disturbance associated with Emergency Egress Shaft 1 (refer Attachment 2, Figure 3) is within 200m of the Swan River and associated wetlands. Construction of this Emergency Egress Shaft will involve clearing 1.04 ha of vegetation. This vegetation is entirely Degraded to Completely Degraded.		
Resource Enhancement Wetland (UFI8421)	The area of surface disturbance associated with Cross Passage 1 (refer Attachment 2, Figure 3) is within 200m of this wetland. Construction of this cross passage will involve clearing 0.28 ha of vegetation. This vegetation is entirely Degraded to Completely Degraded.	This wetland is located within 200 m of a small construction area. There will be no clearing of the vegetation that comprises the wetland.	

	Further informat	ion is provided	in Attachment 2.
2.3.3	Will the development estuary?	ent result in t	he filling or excavation of a river, creek, wetland or
	✓ Yes	☐ No	<b>If yes</b> , please describe the extent of the expected impact.
	impacts to Pois Dundas Road). retain any of its	on Gully Cree West of Dund natural form, a	nce in Forrestfield has been designed to avoid direct k where it flows in its natural form (i.e. to the east of as Road the creek is completely modified, and does not and has limited environmental value. The creek is fed by ling Scarp and is dry in summer.
		reek to facilitat	bed of the creek may be required within the modified e relocation of underground services. A small portion of lso be piped.
	FAL. It is also lil	kely that a gas	be compromised during construction or operation of the pipeline which is buried beneath the modified section of urface disturbance will relocated. This will require in this
	Further informat	ion is provided	in Attachment 2.
	There will be no	other filling or	excavation of a river, creek, wetland or estuary.
2.3.4	Will the developmestuary?	nent result in	the impoundment of a river, creek, wetland or
	☐ Yes	✓ No	<b>If yes</b> , please describe the extent of the expected impact.
2.3.5	Will the developme	ent result in dr	raining to a river, creek, wetland or estuary?
	☐ Yes	✓ No	<b>If yes</b> , please describe the extent of the expected impact.

2.3.6	2.3.6 Are you aware if the proposal will impact on a river, creek, wetland or estu buffer) within one of the following categories? (please tick)				
	Conservation Category Wetland	☐ Yes	✓ No	Unsure	
	The project will not involve clearing any vegetation within a Conservation Category Wetland. Preliminary modelling also indicates that there will be no dewatering impacts to Conservation Category Wetlands.	_			
	Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	☐ Yes	✓ No	Unsure	
-	Perth's Bush Forever site				
	The project occurs adjacent to Bush Forever Site 45. No vegetation within this site will be impacted and management measures will be in place to ensure the site is not impacted during or post construction activities.	☐ Yes	<b>√</b> No	☐ Unsure	
	Environmental Protection (Swan & Canning Rivers) Policy 1998				
	The proposal involves tunnelling under the river to avoid any impacts to bed or banks of the Swan River. Management measures will be in place to ensure any surface construction works within vicinity of the river do not impact on water quality.	☐ Yes	✓ No	☐ Unsure	
	The management area as defined in s4(1) of the Swan River Trust Act 1988				
	The proposal involves tunnelling under the Swan River Trust Management Area. Figure 6 in Attachment 2 shows the proposed infrastructure in relation to the Swan River Trust Management Area.	☐ Yes	✓ No	☐ Unsure	
	Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA)	☐ Yes	<b>→</b> No	☐ Unsure	
	No RAMSAR wetlands will be impacted by the proposal and based on fauna surveys, no habitat important to significant water birds will be impacted.				
Furthe	er information is provided in Attachment 2.				
2.4	Significant Areas and/ or Land Features				
2.4.1	Is the proposed development located within or a National Park or Nature Reserve?	adjacent to	an exist	ing or proposed	
	☐ Yes ✓ No If yes, please p	rovide det	ails.		

2.4.2			entally Sensitive Areas (as declared by the Minister P Act) that will be impacted by the proposed
	✓ Yes	☐ No	If yes, please provide details.
	Attachment 2 on However, the area	Figure 14. a of surface	ted within an area of surface disturbance as shown in This is associated with the Swan River buffer zone. e disturbance has been positioned by the PTA on the lighway road bridge in an area of Completely Degraded
	Further information	is provided	I in Attachment 2.
2.4.3	Are you aware of any will be impacted by the		nt natural land features (e.g. caves, ranges etc) that development?
	☐ Yes	✓ No	If yes, please provide details.
2.5 (	Coastal Zone Areas (	Coastal Di	unes and Beaches)
	•		in 300metres of a coastal area?
	(please tick)	☐ Yes	If yes, complete the rest of this section.
		✓ No	If no, go to the next section.
2.5.2	What is the expected the primary dune?	l setback o	of the development from the high tide level and from
2.5.3	•	•	n coastal areas with significant landforms including lland, coastal dunes or karst?
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.
2.5.4	Is the development lil	kely to impa	act on mangroves?
	☐ Yes	□ No	If yes, please describe the extent of the expected impact.
2.6	Marine Areas and Bio	ota	
2.6.1	Is the development I such as seagrasses,	•	pact on an area of sensitive benthic communities, or mangroves?
	☐ Yes	✓ No	If yes, please describe the extent of the expected impact.

2.6.2	•	eservation (	mpact on marine conservation reserves or areas as described in <i>A Representative Marine Reserve</i> ALM, 1994)?
	☐ Yes	✓ No	<b>If yes</b> , please describe the extent of the expected impact.
2.6.3	Is the development or for commercial fis	•	act on marine areas used extensively for recreation es?
	☐ Yes	<b>→</b> No	<b>If yes</b> , please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).
2.7	Water Supply and D	rainage Cat	chments
2.7.1	Are you in a proclair	ned or propo	osed groundwater or surface water protection area?
	`	r your location	repartment of Water (DoW) for more information on on, including the requirement for licences for water bW website)
	✓ Yes	☐ No	If yes, please describe what category of area.
	developed'. Groud levels) will be add	ndwater mana Iressed in an	ect occurs within a 'RIWI Groundwater area – To be agement and any monitoring requirements (quality and Acid Sulfate Soil Dewatering Management Plan. e obtained from the Department of Water.
2.7.2	Are you in an exist Control area?	sting or pro	posed Underground Water Supply and Pollution
	•	ding the rec	DoW for more information on the requirements for quirement for licences for water abstraction. Also,
	☐ Yes	✓ No	<b>If yes</b> , please describe what category of area.
2.7.3	Are you in a Public I	Orinking Wat	ter Supply Area (PDWSA)?
	`		DoW for more information or refer to the DoW egetation within a PDWSA requires approval from
	☐ Yes	<b>√</b> No	<b>If yes</b> , please describe what category of area.

2.7.4	Is there sufficient wa	iter availab	le for the proposal?
	•		as to whether approvals are required to source water ary, please provide a letter of intent from the DoW)
	✓ Yes	☐ No	(please tick)
2.7.5	Will the proposal rec	quire draina	ge of the land?
	☐ Yes	✓ No	If yes, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.
	involve temporary	dewatering tering or alte	ained as part of the proposed works. It will however to construct some of the underground structures. erations to the groundwater regime are not required to I tunnels.
	Further informatio	n is provide	d in Attachment 2.
2.7.6	Is there a water requ	ıirement foı	the construction and/ or operation of this proposal?
	(please tick)	✓ Yes	If yes, complete the rest of this section.
		☐ No	If no, go to the next section.
	machine and gene	eral construc	construction for the proposal (e.g. for the tunnel boring ction activities). For the operational phase, minimal water a toilets and landscaping.
2.7.7	What is the water re kilolitres per year?	quirement t	for the construction and operation of this proposal, in
	During Construction	on Activities	
	recycled for reuse	e, however	% and 50% of the water required for construction will be the actual percentage at this point is unknown so both been provided below:
	Percentage Re-used	v	olume (m³) / day
	0% recycled	1	,600 to 2,100 m <sup>3</sup> (with 1,400 to 1,700 m <sup>3</sup> discharged as waste)
	50% recycled	1	00 to 1,200 m <sup>3</sup> (with 600 to 800 m <sup>3</sup> discharged as waste)

The tunnel boring machine will also require cooling during boring activities, it has been estimated that approximately 1,300m³ will be required per day for cooling purposes.

#### During the Operational Phase

It is anticipated that the proposed stations will have the most similarities with the following existing stations:

- Airport West Station Esplanade Station
- Consolidated Terminal Station Perth Underground Station
- Forrestfield Station Midland Station

Past water use at each of the existing stations has been used to estimate the water use expected at each of the FAL stations. This water use is tabulated below for the last 3 years.

Station	Water Use (kL / year)			
	2012	2013	2014	
Esplanade Station	899	1,137	2,162	
Perth Underground	507	513	308	
Midland Station	2,834	2,730	3,301	

As can be seen from the above data, the average water use per year for each of the proposed stations could be expected as follows:

- Airport West Station Approximately 1,000 to 2,000 kL per year
- Consolidated Terminal Station Approximately 400 to 500 kL per year
- Forrestfield Station Approximately 2,500 to 3,500 kL per year

# 2.7.8 What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)

A number of options are currently being considered for water use including:

- Potable mains water (Water Corporation)
- Extraction bore
- Treated dewatering effluent

# 2.8 Pollution

2.8.1	Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?					
	(please tick) ves If yes, complete the rest of this section.					
	☐ No If no, go to the next section.					
	During construction there will be emissions of noise, vibration and dewatering effluent. Construction noise and vibration emissions will be temporary in nature and readily manageable. It is proposed that the majority of dewatering effluent will be re-injected back into the aquifer.					
	During operation of the Forrestfield-Airport Link there will be emissions of noise and vibration. Construction and operation of the rail in underground tunnels will mitigate the majority of impacts associated with noise and vibration.					
	Detailed information on noise and vibration emissions and groundwater management is provided in Attachment 2.					
2.8.2	Is the proposal a prescribed premise, under the Environmental Protection Regulations 1987?					
	(Refer to the EPA's General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986 for more information)					
	☐ Yes  ✓ No  If yes, please describe what category of prescribed premise.					
	The proposal is not a prescribed premise under the Environmental Protection Regulations 1987. Construction of the project may require prescribed premises to be constructed, for example for spoil reuse. The requirement for approvals under Part V of the EP Act 1986 will be assessed as construction requirements become more apparent.					
2.8.3	Will the proposal result in gaseous emissions to air?					
	☐ Yes  ✓ No  If yes, please briefly describe.					
2.8.4	Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?					
	☐ Yes  ✓ No  If yes, please briefly describe.					

2.8.5	Will the proposal result in liquid effluent discharge?
	✓ Yes ☐ No If yes, please briefly describe the nature, concentrations and receiving environment.
	No dewatering is required as part of the tunnel boring process. However, dewatering will be required during construction of the underground structures such as stations and emergency egress shafts.
	Dewatering activities will result in dewatering effluent. It is proposed that the majority of dewatering effluent will be re-injected back into the aquifer. This will reduce the amount of effluent discharged to other receiving environments as well as reducing impacts from groundwater drawdown due to dewatering activities.
	Detailed information on groundwater management is provided in Attachment 2.
2.8.6	If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?
	☐ Yes  ✓ No  If yes, please describe.
	The majority of dewatering effluent will be reinjected back into the aquifer (after appropriate treatment if required). Should there be a requirement to discharge any of the effluent into a watercourse an assessment will be undertaken to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met.
	Water quality standards which will need to be met as well as monitoring and contingency measures to ensure no adverse impacts to the receiving environment will then be specified in the Acid Sulfate Soils and Dewatering Management Plan.
2.8.7	Will the proposal produce or result in solid wastes?
	✓ Yes ☐ No If yes, please briefly describe the nature concentrations and disposal location/ method.
	The tunnel boring machine will excavate approximately 770,000 m³ of spoil. The PTA is currently considering options for re-use of this material. As part of the current geotechnical and environmental investigations, the suitability of excavated material for different uses will be assessed to assist in identifying potential re-use opportunities. It is recognised however that some of the excavated material may not be suitable for certain re-use opportunities and may have to be disposed of to landfill.
2.8.8	Will the proposal result in significant off-site noise emissions?
	☐ Yes  ✓ No  If yes, please briefly describe.
	Construction noise and vibration emissions will be temporary in nature and readily manageable. Operation of the rail in underground tunnels will mitigate the majority of noise and vibration impacts.

Detailed information on noise and vibration emissions is provided in Attachment 2.

	ill the development be subject to the Environmental Protection (Noise egulations 1997?
	✓ Yes ☐ No If yes, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?
	Please attach the analysis.
	Potential noise impacts resulting from construction of the proposal will be subject to the Environmental Protection (Noise) Regulations 1997. Measures to mitigate construction noise impacts will be developed by the lead contractor as the detailed design for the project progresses and specific construction activities and timings are known.
	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared by the lead contractor prior to the commencement of construction. Consultation with key stakeholders is a key element of managing noise and vibration impacts during construction. The CNVMP will detail consultation requirements, control measures to be implemented during construction and monitoring and reporting requirements. The CNVMP will be endorsed by the DER and other relevant regulatory agencies as required.
	Noise Management Plans for construction work which is undertaken out of hours will also be prepared. Noise Management Plans will be prepared on a case by case basis as specific construction activities and timings are known. The plans will be subject to approval by the DER or the Local Government Authority acting on behalf of the DER.
	Operation noise emission will be subject to the State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning (SPP5.4). Preliminary modelling has indicted that operational noise emissions are able to achieve compliance with SPP5.4
	Detailed information on noise and vibration emissions and groundwater management is provided in Attachment 2.
(	Does the proposal have the potential to generate off-site, air quality impacts, dust odour or another pollutant that may affect the amenity of residents and othe sensitive premises" such as schools and hospitals (proposals in this category and include intensive agriculture, aquaculture, marinas, mines and quarries etc.)?
	✓ Yes  □ No  If yes, please describe and provide the distance to residences and other "sensitive premises".
	There is the potential for dust and light to be generated during the following construction activities:

- Construction of the Airport West Station will involve some vegetation clearing and excavation activities which has the potential to generate dust. This site is likely to comprise a construction site for the life of the construction phase of the project. However dust generating activities are unlikely to extend for that entire period.
- Construction of the Forrestfield Station will involve some vegetation clearing, earthmoving and excavation activities which have the potential to generate dust. This site is likely to comprise a construction site for the life of the construction phase of the project. However dust generating activities are unlikely to extend for that entire period.

Construction of egress shafts and cross passages along the entire alignment will
involve some vegetation clearing and earthmoving or excavation activities which
have the potential to generate dust. These activities are anticipated to take no
more than 6 months to complete.

Out of hours work may also be undertaken at these locations which have the potential to affect the amenity of sensitive receptors from light emissions.

Sensitive receptors which may be impacted by the proposed activities are listed below:

- Aged Care facilities, with the closest facility being located approximately 0.25km from a temporary construction footprint (Mertome Village)
- Child Care Facilities, with the closest facility being located approximately 0.25km from a temporary construction footprint (Mulberry Tree Child Care)
- Schools, with the closest school being located approximately 0.4km from a temporary construction footprint (Durham Road School and Bayswater Primary School)
- Residences, there are residences located along the majority of the alignment.
   Some temporary construction footprints are located adjacent to residential properties.

The Construction Environmental Management Plan will outline mitigation and management measures to prevent impacts to sensitive receptors. Should any complaints be received from surrounding land users appropriate monitoring and mitigation measures will be put in place.

2.8.11	• •		tial component or involves "sensitive premises", is it nay discharge a pollutant?
	☐ Yes	☐ No	✓ Not Applicable
			If yes, please describe and provide the distance to the potential pollution source
2.9 G	reenhouse Gas E	missions	
		•	n substantial greenhouse gas emissions (greater n of carbon dioxide equivalent emissions)?
	☐ Yes	✓ No	If yes, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.

No modelling has been undertaken to date to predict the greenhouse emissions from the proposal. However, greenhouse emissions modelling and calculations undertaken by PTA on a previous rail project comprising up to 80km of rail has been used as a preliminary indicator. It was calculated that the approximate greenhouse gas emissions for the previous project would be equivalent to 23,530 tonnes per annum of carbon dioxide. Consequently, considering this proposal only comprises 9 km of rail it is unlikely that the proposal will generate substantial greenhouse emissions in excess of 100,000 tonnes per annum.

2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

NA

## 2.10 Contamination

2.10.1	Has the property on which the proposal is to be located been used in the past fo activities which may have caused soil or groundwater contamination?								
	✓ Yes	☐ No	Unsure	If yes, please describe.					
	contamination	have been iden ciated with forme	tified within or adja	uses which may have caused acent to the alignment. These are al or commercial land uses or illega					
		nation on the po ded in Attachmer		ted sites within or adjacent to the					
2.10.2	Has any assessment been done for soil or groundwater contamination on the site?								
	✓ Yes	☐ No	If yes, please	e describe.					
	A Preliminary Site Investigation and Sampling Analysis Plan have been produced by GHD. These documents were reviewed and approved by an accredited contaminated sites auditor, the DER and the Department of Health.								
	rrently being undertaken include:								
<ul> <li>Detailed Site Investigation (DSI)</li> </ul>									
	tifies any contaminated sites								
	Detailed information on the investigations which have been completed and are proposed is provided in Attachment 2.								
2.10.3	Has the site been registered as a contaminated site under the <i>Contaminated Sites Act 2003</i> ? (on finalisation of the CS Regulations and proclamation of the CS Act)								
	☐ Yes	✓ No	<b>If yes</b> , please	e describe.					
	No sites within the approval boundary have been registered as a contaminated site under the Contaminated Sites Act 2003. There are sites in the surrounding area which are registered under the CS Act.								
	Detailed inform	ation on the loca	ition of these sites is	s provided in Attachment 2.					

# 2.11 Social Surroundings

2.11.1			y which contains significance that m	or is near a site of Aboriginal ay be disturbed?					
	✓ Yes	☐ No	Unsure	If yes, please describe.					
	Aboriginal heritage desktop and site investigations identified eight potential Aboriginal heritage sites within the Approval Boundary. Three of the eight sites are registered Aboriginal heritage sites as it has been deemed that they meet the definition of a site as per Section 5 or Section 39 of the Aboriginal Heritage Act 1972. The other five sites are Heritage Places which have been assessed as not meeting the criteria of a site.								
	Consultation with the Department of Aboriginal Affairs (DAA) and Aborigin spokespersons indicates that the project may impact on the Swan River (Site ID 353 and Poison Gully Creek (Site ID 25023) heritage sites due to their spiritual ar mythological significance.								
	Consultation with the DAA and Aboriginal spokespersons is ongoing. If impacts to the heritage values of these sites are likely, a Section 18 notice seeking consent to use the land containing registered Aboriginal heritage sites under the Aboriginal Heritage A 1972 will be sought.								
	planning pha management	ase of the pro measures incl	ject and during its	e undertaken during the remaining s delivery. Construction heritage should Aboriginal artefacts are					
	Further inforn	nation is provided	in Attachment 2.						
2.11.2		Is the proposal on a property which contains or is near a site of high public interest (e.g. a major recreation area or natural scenic feature)?							
	✓ Yes	☐ No	If yes, please des	scribe.					
	and will there activities which	fore not have any ch are undertake	impacts its recreation	ne will be tunnelled under the river anal value. Any surficial construction are river will be managed to ensure t impacted.					
2.11.3		sal result in or nity of the local a		transport of goods, which may					
	☐ Yes	✓ No	If yes, please des	scribe.					
	Forrestfield, e	either for re-use e	elsewhere or disposa	rted from the construction site in I of at landfill. The Forrestfield area ight routes. Consequently, trucks					

#### 3. PROPOSED MANAGEMENT

#### 3.1 Principles of Environmental Protection

3.1.1	Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA website)								
	1. The precautionary principle.		•	Yes	☐ No				
	2. The principle of intergeneration	nal equity.	•	Yes	☐ No				
	3. The principle of the considiversity and ecological integr	<del>_</del>	•	Yes	☐ No				
	4. Principles relating to improve incentive mechanisms.	d valuation, pricing and	•	Yes	☐ No				
	5. The principle of waste minimis	sation.	•	Yes	☐ No				
3.1.2	Is the proposal consistent Bulletins/Position Statemer Guidelines/Guidance Statemer  ✓ Yes □ No	ents and Environ	mei	ntal As	Protection sessment				
3.2 (	Consultation								
3.2.1	Has public consultation taken place (such as with other government agencies, community groups or neighbours), or is it intended that consultation shall take place?								
	✓ Yes	If yes, please list those comments or summar separate sheet.		nsulted and response	l attach on a				

PTA has undertaken consultation with relevant stakeholders from the early stages of the FAL design process. Comments and advice received from government agencies and other relevant stakeholders were incorporated into the concept design of the FAL. To date, consultation has been undertaken with government agencies including federal agencies, local government authorities, Perth Airport and the community. Full details of consultation undertaken to date is included in Attachment 2.

The PTA is currently working with the local government agencies to develop stakeholder reference groups. Public consultation will continue throughout the procurement and delivery phases of the project

The PTA has also developed a project website which contains general information on the project as well as details of the environmental and heritage considerations. The website has a feedback section which members of the community can use to seek information about the project. All queries are responded to in a timely manner.



A3 scale: 1:50,000

Coordinate System: GDA 1994 Perth Coastal Grid 1994 Projection: Transverse Mercator Datum: GDA 1994 Units: Meter Forrestfield-Airport Link Section 38(1) Referral

Date: 12/11/2014