

Environmental Protection Act 1986

Section 40(2)(a)

NOTICE REQUIRING INFORMATION FOR ASSESSMENT

PERSON TO WHOM THIS NOTICE IS GIVEN

Public Transport Authority (ABN: 61 850 109 576)
Public Transport Centre, West Parade
PERTH WA 6000

PROPOSAL TO WHICH THIS NOTICE RELATES:

Thornlie-Cockburn Link

Pursuant to section 40(2)(a) of the *Environmental Protection Act 1986*, I, as a delegate of the Environmental Protection Authority (EPA), require that you amend and update the supplementary environmental report to provide the EPA with the following information for its assessment.

1. Providing context and clarifying potential environmental impacts

Flora and Vegetation

- Update appended biological assessment reports consistent with EPA guidance and include data to inform the wetland assessment.
- Revise section 6.4.10 to include details of dieback assessments of all areas of vegetation within and adjacent to the development envelope.
- Update the information in section 6.4.5 to include all significant flora species likely or possible to occur within the development envelope.
- Revise sections 6.5 and 6.6 to include indirect impacts to areas of adjacent Bush Forever sites, wetland vegetation, and significant flora species and ecological communities, including from the spread of weed species.

Terrestrial Fauna

- Update section 7.4.2 with details of the significant fauna species that are likely to occur in the area and provide an assessment of the potential direct, indirect and cumulative impacts on habitat suitable for the significant fauna identified.
- Append fauna habitat maps based on the habitat types described in Table T.

Terrestrial Environmental Quality

- Append evidence of an accredited auditor's endorsement of the Preliminary Site Investigation and the Sampling and Analysis Quality Plan for Detailed Site Investigation.
- Append a summary report of the preliminary key findings of the detailed site investigations completed to date and update section 8.4 with any relevant information.
- Revise sections 8.5 and 8.6 to include consideration of the potentially adverse impacts to soil and groundwater from disturbance of a contaminated site and the release of ground gases.

Inland Waters

- Combine sections 9 and 10 to reflect the EPA's amalgamation of the previous two water factors of Hydrological Processes and Inland Waters Environmental Quality.
- Revise section 9.6 to more accurately describe the potential direct and indirect impacts from changes to hydrological processes and water quality to the environmental values supported by inland waters in proximity to the development envelope.
- Update maps to include the indicative location of all proposed drainage basins relative to adjacent environmental values.

Social Surroundings

- Update section 11 to include the direct and indirect impacts from noise, dust and vibration during construction of the proposal.

2. Proposed Environmental Management Measures

All Preliminary Key Environmental Factors

- Review and revise the Assessment of Impacts section for each Key Environmental Factor to remove reference to management and mitigation measures in accordance with the EPA's Instructions on how to prepare an Environmental Review Document.
- Review and revise sections relevant to Mitigation to describe and justify the proposed mitigation measures and provide details of management actions that are consistent with any relevant guidelines for each potential impact.

Terrestrial Environmental Quality

- Update section 8.7 or append as a management plan to include interim details of how contamination is proposed to be managed during construction.
- Update section 8.7 or append as a management plan details for the ongoing management and monitoring of landfill gases consistent with relevant guidelines.

Inland Waters

- Revise the Mitigation section to include details of how wetland condition is proposed to be managed and maintained.
- Include details of any proposed drainage strategy and/or management measures in the Mitigation section or appended that are consistent with available guidelines.
- In the section on Mitigation demonstrate the pathways for adopting best practice water sensitive urban design principles in the design of the infrastructure and also

in stormwater and drainage components to ensure hydrological regimes and water quality are maintained. Attention should also be given to the Underground Water Pollution Control Area and Wellhead Protection Zones.

3. Environmental Offsets

All Preliminary Key Environmental Factors

- Undertake an assessment of the significance of the residual impacts on the identified environmental factors and values by application of the Residual Impact Significance Model (page 11) and WA Offset template (Appendix 1) in the WA Environmental Offsets Guidelines (2014) (the Guidelines).
- Where significant residual impacts remain, provide details of the proposed offset strategy/project consistent with the Guidelines.

4. Matters of National Environmental Significance (MNES)

- Include details of the potential direct, indirect and cumulative impacts to Banksia Woodlands of the Swan Coastal Plain Threatened Ecological Community (TEC), black cockatoos, black cockatoo foraging habitat, black cockatoo potential breeding habitat, *Caladenia huegelii* and *Caladenia huegelii* habitat both within and adjacent to the development envelope in accordance with relevant Commonwealth guidelines.
- Include an assessment of the indirect impacts to adjacent areas of the identified TEC and suitable black cockatoo and *Caladenia huegelii* habitat. When discussing potential direct and indirect impacts please give consideration to the local, regional, state and national scale and the precautionary principle. In relation to the assessment of impacts to *Caladenia huegelii* include reference to the loss of potential habitat.
- Discuss the likelihood of the following species occurring within the project area, within the immediate vicinity of the project area and any potential impacts (including indirect impacts). Please note additional surveying may be required.
 - Pyramid Mulla-mulla (*Ptilotus pyramidatus*)
 - Selena's synaphea (*Synaphea* sp. Fairbridge Farm (D. Papenfus 696))
 - Swamp starflower (*Calytrix breviseta* subsp. *breviseta*)
 - Purdie's donkey-orchid (*Diuris purdiei*)
 - Glossy-leafed hammer orchid (*Drakaea elastica*)
 - Keighery's macarthuria (*Macarthuria keigheryi*)
 - Dwarf hammer-orchid (*Drakaea micrantha*)
 - Chuditch (*Dasyurus geoffroyi*)
 - *Corymbia calophylla* - *Kingia australis* woodlands on heavy soils of the Swan Coastal Plain (CCKA woodland)
 - Clay Pans of the Swan Coastal Plain (Clay Pans TEC) which includes (Banksia menziesii woodlands (FCT23a) TEC and Low lying Banksia attenuata woodlands or shrublands (FCT 21c).
 - Short-tongued bee (*Leioproctus douglasiellus*)

- Carter's Freshwater Mussel (*Westralunio carteri*) is known to occur within the proposal area. Please provide information on this species and any potential impacts that may occur as a result of the project activities.
- Include details of proposed management and mitigation actions (including indirect impacts) for each of the MNES consistent with relevant guidelines and with reference to relevant Conservation Advices, Recovery Plans and Threat Abatement Plans. Discuss the short, medium and long-term advantages and disadvantages of any feasible alternatives.
- Provide details of the likely residual impacts on MNES and include reasons why avoidance or mitigation is not reasonably achieved. Where significant residual impacts remain, provide details of the proposed offset strategy consistent with Commonwealth guidelines and analyse how the offset(s) meet the requirements of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Environmental Offset Policy October 2012 (EPBC Act Offset Policy).
- For the relevant MNES, provide an overall conclusion as to the environmental acceptability of the proposal. Include a discussion on the consideration with the requirements of the EPBC Act; justification for undertaking the proposal in the manner proposed, acceptability of the avoidance and mitigation measures; and residual impacts and any offsets and compensatory measures.

Please revise the Supplementary Environmental Report (document reference: PTA2018-001_ENVA_004_CH_V2) to address the above.

If management plans are submitted the layout and content should follow the EPA guidance on Environmental Management Plans ([Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans](#)) and include sufficient high level information about the proposal to enable readers to understand how potential impacts on the preliminary key environmental factors would be managed during construction and/or operation of the proposal.

Your response should be sent by email to registrar@dwer.wa.gov.au marked for the attention of the person cited in the covering letter, or by post to the Environmental Protection Authority, Locked Bag 33, Cloisters Square, Perth WA 6850. Please quote the case number CMS17396 on any further correspondence.

The EPA will not proceed with its assessment of the proposal until you have provided the requested information, and it is considered to be adequate, or advise the EPA that the further information is not available and/or cannot be obtained.

Yours sincerely

[Signed 27 July 2018]

Tom Hatton
CHAIRMAN