



APPENDIX F: CBD NORTH PRECINCT ENVIRONMENTAL PERFORMANCE REQUIREMENTS ASSESSMENT

Cross Yarra Partnership Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Aquatic ecology and river health	AE1	 Fully integrate the stormwater treatment system into the design of Melbourne Metro (all precincts) for construction to ensure that stormwater entering a receiving water body complies with SEPP (Waters of Victoria). The best practice performance objectives for achieving compliance with SEPP (Waters of Victoria) during the construction phase are described below: See table in EPRs for performance objectives. Note Best practice performance objectives are based on the Best Practice Environmental Management Guidelines for Urban Stormwater – CSIRO. 	Stormwater treatment for the CBD North precinc
Aquatic ecology and river health	AE2	 Best practice sedimentation and pollution control measures must be applied to protect waterways in accordance with Best Practice Environmental Management: Environmental Guidelines for Major Construction Sites – EPA publication 480 (1996) and in accordance with an approved CEMP. Control measures may include: vehicle wheel wash and rumble bars at worksite egress points, appropriate placement of material stockpiles and chemical storages, covered loads, street sweeping and water quality monitoring, where required. 	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-sp Management Plan with site specific controls in t These plans have been reviewed by the project's Environmental Auditor.
Aquatic ecology and river health	AE3	 During construction, discharge all tunnel, station box and portal construction water to sewer. Where groundwater interception during construction is predicted to occur, dewatering is to be managed so that groundwater is not released to stormwater or sensitive surface water bodies. (See EPR GW3). 	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-sp Management Plan with site specific controls in t These plans have been reviewed by the project's Environmental Auditor. Where discharge to the s agreement (or similar) with provision for ground
Aquatic ecology and river health	AE4	1. Where ground treatment works are required in waterways, design and implement methods that prevent discharge of sediments into the water column.	There are no waterways within the CBD North pr
Aquatic ecology and river health	AE5	of contaminants to Moonee Ponds Creek.	This is not relevant to CBD North precinct. Refer
Aquatic ecology and river health	AE6	 During operation, discharge tunnel drainage water to sewer, unless otherwise agreed by EPA and Melbourne Water and in compliance with SEPP (Waters of Victoria). Where groundwater interception during operation is predicted to occur, disposal is to be managed so that contaminated water is not released to stormwater or to sensitive surface water bodies (see EPR GW4). 	Prior to the operational phase of the project, Cro Management Plan, which will provide detail on d
Aquatic ecology and river health	AE7	 Fully integrate the stormwater treatment system into the design of all precincts and portals to ensure that any stormwater entering a receiving water body complies with SEPP (Waters of Victoria). See table in EPR Notes Best practice performance objectives are based on the Best Practice Environmental Management Guidelines for Urban Stormwater – CSIRO. An example using SEPP (Waters of Victoria), general surface waters segment. SEPP Schedule F7 – Yarra Catchment – urban waterways for the Yarra River main stream. Litter is defined as anthropogenic material larger than five millimetres. Sedimentation and pollution control measures must be applied to protect waterways and habitat areas such as periphery surrounding Moonee Ponds Creek in accordance with industry best practice. This must include water quality monitoring, where required. 	Stormwater treatment for the CBD North precinc
Aboriginal Cultural Heritage	AH1	1. Comply with a Cultural Heritage Management Plan approved under the <i>Aboriginal Heritage Act 2006</i> and prepared in accordance with the Aboriginal Heritage Regulations 2007.	The CBD North precinct design is within the activ Cross Yarra Partnership has implemented an En Environmental Management Plan, which set out Cultural Heritage Management Plans) are met. T Heritage Management Plan with site specific co Implementation Plans. This is subject to stakeho reviewed by the project's Independent Reviewer

cinct is presented in Section 4.4.1 of the Development Plan.
n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Surface Water is in the precinct-specific Site Environmental Implementation Plans. ect's Independent Reviewer and audited by the Independent
n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Surface Water s in the precinct-specific Site Environmental Implementation Plans. ect's Independent Reviewer and audited by the Independent he sewer is necessary, this has occurred through a trade waste undwater disposal.
h precinct.
efer to the Intake Substation Development Plan.
Cross Yarra Partnership will prepare an Operational Environmental on discharge of tunnel drainage water.
cinct is presented in Section 4.4.1 of the Development Plan.

activity area defined in the Cultural Heritage Management Plans. n Environmental Management System and Construction t out processes for ensuring conditions of approvals (including the net. The aspect-specific control measures are identified in the ic controls detailed in the precinct-specific Site Environmental akeholder consultation requirements with Heritage Victoria, wer and audited by the Independent Environmental Auditor.



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Air Quality	AQ1	 Prior to commencement of Project works, develop and implement plan(s) for dust management and monitoring, to minimise and monitor the impact of construction dust. Develop the plan(s) in consultation with EPA and the owners of key sensitive equipment or locations, and advise the community of the plan, in accordance with the contractors Community and Stakeholder Engagement Plan (see EPR SC4). The plan(s) must: a) Set out air quality criteria and outline the justification for those criteria for above ground construction works. b) Be informed by air modelling of construction activities, which should identify the main dust sources and the location of sensitive land uses. Air modelling for particulate dispersion must include construction ventilation discharges, and assess for both dust particulates and respirable crystalline silica. c) Be informed by a human health risk assessment, conducted by a suitably qualified professional, for high risk construction activities which may generate possible airborne contaminants of potential concern, including; dust, respirable crystalline silica, asbestos, Aspergillus spores (Precinct 4 only) and any other common industrial contaminants within dust (such as metals and polycyclic aromatic hydrocarbons). d) Describe the proposed dust management and monitoring system including (but not necessarily limited to): i Routinely reviewing weather model predictions. ii Continuous monitoring and real-time alert systems in the event of measured exceedances. iii Protocols to record-keeping. iv Protocols to ensure that site personnel advise the site manager if excessive dust emissions are observed. e) Describe the mitigation measures that will be implemented to ensure compliance with air quality criteria. f) Address monitoring requirements for key sensitive receptors, includi	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-s Lighting Management Plan with site specific co Implementation Plans. This plan has been revier project's Independent Environmental Auditor.
Air Quality	AQ2	1. Manage construction activities to minimise dust and other emissions in accordance with EPA Publication 480, Environmental Guidelines for Major Construction Sites (EPA 1996).	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Lighting Management Plan with site specific co Implementation Plans. This plan has been revie project's Independent Environmental Auditor.
Air Quality	AQ3	1. Control the emission of smoke, dust, fumes and other pollution into the atmosphere during construction and operation in accordance with the SEPPs for Air Quality Management and Ambient Air Quality.	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-s Lighting Management Plan with site specific co Implementation Plans. This plan has been revier project's Independent Environmental Auditor. Prior to the operational phase of the project, Cro Management Plan, which will provide detail on c
Arboriculture	AR1	 During detailed design, review any potential tree impacts and achieve the maximum possible tree retention on both public and private land, including retaining all valuable habitat linkages or corridors where practicable. Trees to be removed during early works must only be those associated with early works. Comply with any requirements of Heritage Victoria if the trees are on the VHR. Prior to commencement of Project Works, develop and implement a plan in consultation with the relevant local council that identifies all trees in the Project Area which covers: Trees to be removed or retained. Condition and significance of the trees to be removed. Options for temporary re-location of palms and reinstatement at their former location or another suitable location. Options for re-location of all trees and, if feasible for the tree species, reinstatement of the trees at their former location. The plan should include a tree removal protocol established in consultation with the City of Melbourne, the City of Port Phillip, the City of Stonnington, the Shrine of Remembrance and Shrine Trustees, University of Melbourne and Heritage Victoria as applicable that includes a process for MMRA approval of trees prior to removal. 	Cross Yarra Partnership has implemented an Err Environmental Management Plan. The aspect-s Management Plan which requires the developm Protection Plan and Tree Protection and Remov are considered native vegetation in accordance lopping of native vegetation (2017) (or under the Assessment Guidelines (2013). The public realm is addressed in 4.4.2 of the Development Plan.
Arboriculture	AR2	1. Reinstate quality soils to sufficient volumes to support long-term viable growth of replacement trees. Ensure ongoing supply of water to tree root zones, especially during their establishment stage. Employ water sensitive urban design principles (WSUD) where possible.	The public realm response in regards to tree soi North Precinct Development Plan.

Environmental Management System and prepared a Construction -specific control measures are identified in the Air Quality, Dust & controls detailed in the precinct-specific Site Environmental viewed by the project's Independent Reviewer and is audited by the Environmental Management System and prepared a Construction -specific control measures are identified in the Air Quality, Dust & controls detailed in the precinct-specific Site Environmental viewed by the project's Independent Reviewer and is audited by the Environmental Management System, and prepared a Construction t-specific control measures are identified in the Air Quality, Dust & controls detailed in the precinct-specific Site Environmental riewed by the project's Independent Reviewer and is audited by the Cross Yarra Partnership will prepare an Operational Environmental on controlling smoke, dust, fumes and other air pollution matters. Environmental Management System and prepared a Construction t-specific control measures are identified in the Ecology oment of a Tree Protection Plan. CYP has prepared a Tree noval Plan for the works. None of the trees proposed for removal ce with the DELWP Guidelines for the removal, destruction or the previous Permitted Clearing of Native Vegetation - Biodiversity alm response in regards to tree retention for State Library Station

soil and water supply is presented in Section 4.4.2 of the CBD



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Arboriculture	AR3	 Develop a tree replacement program to re-establish lost canopy cover and achieve canopy size equal to (or greater than) healthy, mature examples of the removed species in Melbourne. Establish protocols to govern the use of advanced and super-advanced trees, where such use is appropriate to re-establish canopy and valued landscape character in a way that balances long term viability of the tree with immediate impact. Consult with the City of Melbourne, the City of Port Phillip, the City of Stonnington, the Shrine of Remembrance and Shrine Trustees, University of Melbourne and Heritage Victoria as applicable. When re-establishing trees, regard should be had to the following documents where relevant: The City of Melbourne's Tree Retention and Removal Policy (2012) (excluding sections 8.2 and 8.3) and Urban Forest Strategy, South Yarra Urban Forest Precinct Plan, Central City Urban Forest Precinct Plan, Carlton Urban Forest Precinct Plan and Kensington Urban Forest Precinct Plan. The City of Melbourne's General Local Law 2008 (No 1) and City of Stonnington Street Tree Strategy. Any associated precinct plans. Specific policies of the Domain Parklands Conservation Management Plan, for trees within Domain Parklands. Shrine of Remembrance Conservation Management Plan (Context, 2016). The preferred future character of the University of Melbourne, for trees in the grounds of the University of Melbourne. The re-establishment of trees must also consider the contribution that the replacement trees can make to the creation of habitat corridors and linkages where this is possible. 	The public realm response in regards to tree report of the Development Plan.
Arboriculture	AR4	 Prior to commencement of construction of any Project works that could affect trees, prepare and implement Tree Protection Plans for each precinct in accordance with AS4970-2009 Protection of Trees on Development Sites. The plans must respond to the detailed design and construction methodology of the Project and ensure that trees proposed to be retained are adequately protected from the impact of construction or related activities. Where a Tree Protection Plan is required for a heritage place, the plan must be developed in consultation with Heritage Victoria or the relevant council (as applicable). 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan which requires the developm Victorian Heritage Registered site, these Tree P
Arboriculture	AR5	1. For City of Melbourne trees that are to be retained and protected, a bank guarantee or bond of the trees' value will be held against the approved Tree Protection Plan for the duration of the works in accordance with the City of Melbourne Tree Retention and Removal Policy.	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-s Management Plan (including a Tree Protection Site Environmental Implementation Plans. This by the Independent Environmental Auditor. A Ba the City of Melbourne for City of Melbourne tree City of Melbourne Tree Retention and Removal
Business	B1	 Reduce the disruption to businesses from direct acquisition or temporary occupation of land, and work with business and land owners to endeavour to reach agreement on the terms for possession of the land. Provide businesses with adequate notice (as required under the relevant legislation) of any need for relocation, as a result of the Project including the termination of leases of public or private land where the displacement is a direct consequence of the Project. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s and Stakeholder Engagement Management Pla Management Framework and Special Events su and audited by the Independent Environmental

replacement for CBD North precinct is presented in Section 4.4.2 Environmental Management System and prepared a Construction t-specific control measures are identified in the Ecology pment of a Tree Protection Plan. Where the works fall within a Protection Plans will be subject to Heritage Victoria approval. Environmental Management System and prepared a Construction t-specific control measures are identified in the Ecology on Plan) with site specific controls detailed in the precinct-specific his is reviewed by the project's Independent Reviewer and audited Bank Guarantee or bond for the trees' value has been provided to rees that are to be retained and protected in accordance with the al Policy. Environmental Management System and prepared a Construction t-specific control measures are identified in the Communications Plan, which includes a Business Disruption Plan, Relocation sub-plan. This is reviewed by the project's Independent Reviewer al Auditor.



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Business	В2	 Prior to commencement of relevant works, prepare a business disruption plan consistent with the contractors Community and Stakeholder Engagement Management Plan (SC4) to: Manage potential impacts to non-acquired businesses, commercial property owners and not-for-profit organisations. Ensure appropriate engagement with local councils, businesses, property owners and the community throughout construction. The plan must outline the stakeholder engagement measures for each precinct and include:	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s and Stakeholder Engagement Management Pla Management Framework and Special Events su and audited by the Independent Environmental
Business	B3	1. Following consultation with potentially affected businesses and prior to commencement of relevant works, prepare management plans and during construction implement those plans to minimise dust, noise and vibration impacts during construction, as per EPRs AQ1, NV5 and NV21.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s and Stakeholder Engagement Management Pla and Noise and Vibration Management Plan. Site detailed in the precinct-specific Site Environme the project's Independent Reviewer and audited
Business	B4	1. Maintain vehicular and pedestrian access to hospital emergency departments at all times during construction and to other key health and medical facilities, where practicable.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s and Stakeholder Engagement Management Pla Management Plan (Business Disruption Mitigat Reviewer. This is subject to separate stakehold Environmental Auditor, including quarterly audit
Business	В5	1. Prior to relevant works, develop a stop work contingency plan for Class 1 emergencies (as defined in the Emergency Management Act 2013) in consultation with medical institutions in the Parkville precinct in the event that Melbourne Metro construction works are required to cease as a result of any such emergency.	This is not located in the CBD North precinct. R
Business	B6	1. In consultation and agreement with the owners of the Westin Residential Apartments and the owners' corporations in Plan of Subdivision PS428405M, prepare a legacy design for the private car parking, storage units and services below the Westin building to a similar standard as prior to the commencement of the Project (taking into account station infrastructure requirements) or as otherwise agreed with the owners. The legacy design is to be implemented at the earliest opportunity.	This is not located in the CBD North precinct. R

a Environmental Management System and prepared a Construction et-specific control measures are identified in the Communications Plan, which includes a Business Disruption Plan, Relocation a sub-plan. This is reviewed by the project's Independent Reviewer tal Auditor.

A Environmental Management System and prepared a Construction of specific control measures are identified in the Communications Plan as well as the Air Quality, Dust & Lighting Management Plan Site specific controls for Air Quality and Noise and Vibration are mental Implementation Plans. These plans have been reviewed by ted by the project's Independent Environmental Auditor.

A Environmental Management System and prepared a Construction of specific control measures are identified in the Communications Plan, which will include a Business Engagement and Continuity gation Plan). This is reviewed by the project's Independent older consultation requirements and reviewed by the Independent udits of performance throughout construction.

. Refer to the Parkville Precinct Development Plan.

. Refer to the CBD South Precinct Development Plan.

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Contaminated Land and Spoil Management	C1	 Prior to commencement of shaft construction and prior to commencement of main works, prepare and implement a Spoil Management Plan (SMP) for each Works Package. The SMP must be in accordance with MMRA's Spoil Management Strategy and any relevant regulations, standards or best practice guidelines. The SMP must be developed in consultation with the EPA. The SMP will include but is not limited to the following: a) Applicable regulatory requirements. b) Identifying nature and extent of spoil (clean fill and contaminated spoil). c) Roles and responsibilities. d) Identification of management measures for handling and transport of spoil for the protection of health and the environment (consistent with the transport management plan(s) as required by EPRs T2 and T3). e) Identification, design and development of specific environmental management plans for temporary stockpile areas f) Identifying potential sites for re-use, management or disposal of any spoil. g) Monitoring and reporting requirements. h) Identifying locations and extent of any prescribed industrial waste (PIW) and the method for characterising PIW spoil prior to excavation. i) Identifying suitable sites for disposal of any PIW. The SMPs must include sub-plans as appropriate, including but not limited to an Acid Sulfate Soil and Rock (ASS/ASR) Management Sub-Plan (see EPR C2). 	Cross Yarra Partnership has implemented an Env Environmental Management Plan. The Construct control measures including the Spoil Managemen Independent Reviewer and audited by the Indepen
Contaminated Land and Spoil Management	C2	 Prior to commencement of shaft construction and prior to commencement of main works, prepare and implement an Acid Sulfate Soil and Rock (ASS/ASR) Management Sub-Plan as a sub-plan of the overarching SMP for each Works Package. The Sub-Plan must be developed in accordance with the Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1999, EPA Publication 655.1 Acid Sulfate Soil and Rock and relevant (EPA) regulations, standards and best practice guidance and in consultation with the EPA. This Sub-Plan will adopt the general requirements of the SMP and also: a) Identify locations and extent of any potential ASS/ASR. b) Characterise ASS/ASR spoil prior to excavation. c) Identify and implement measures to prevent oxidation of ASS/ASR wherever possible. d) Identify potential sites for re-use, management or disposal of any ASS/ASR. 	Cross Yarra Partnership has implemented an Env Environmental Management Plan. The Construct control measures including the Spoil Managemen Independent Reviewer and audited by the Indepen
Contaminated Land and Spoil Management	C3	 Prior to commencement of shaft construction and prior to commencement of main works, prepare a Remedial Management Plan (RMP) for each Works Package for contaminated land and groundwater . The RMP must: a) Consider the outcomes of further investigations including the appropriate groundwater investigations and modelling required in EPRs GW1, GW2, GW3 and GW5. b) Interpret groundwater permeation and VOC results. c) Present and take account of the outcomes of risk assessments. d) If required, identify remedial options to be implemented for contaminated land and groundwater in accordance with relevant regulations, standards and best practice guidance and in consultation with the EPA. If required, as an outcome of the RMP, prepare and implement a remedial action plan and integrate the remediation approach into the design of the Project in accordance with relevant regulations, standards and best practice guidance and to the satisfaction of EPA. 	Cross Yarra Partnership has implemented an Env Environmental Management Plan. The Construct control measures including a Spoil Management Western Tunnels Groundwater and Remediation the project's Independent Reviewer and audited b
Contaminated Land and Spoil Management	C4	 Prior to commencement of relevant works, prepare and implement a health, safety and environmental plan for the management of hazardous substances. The plan must include but not be limited to: a) Consideration of the risks associated with exposure to hazardous substances for employees, visitors and general public. b) The identification of methods to control such exposure in accordance with relevant regulations, standards and best practice guidance and to the satisfaction of WorkSafe and in consultation with EPA. c) Method statements detailing monitoring and reporting. 	Cross Yarra Partnership has implemented an Env Environmental Management Plan and Health and Materials Procedure to ensure hazardous materia Management Framework. These plans have beer by the Independent Environmental Auditor.
Historical Cultural Heritage	CH1	 Design permanent and temporary works to avoid or minimise impacts on the cultural heritage values of heritage places. Consult, as required, with Heritage Victoria and/or the relevant local council (as applicable). Note The Project must meet the requirements of the Heritage Act 2017. 	Historical cultural heritage at CBD North precinct
Historical Cultural Heritage	CH2	 To avoid or minimise impacts on the cultural heritage values of heritage places, prior to commencement of relevant works, prepare and implement a Heritage Management Plan (HMP) in consultation with Heritage Victoria or the relevant local council (as applicable). The HMP must identify the heritage values of the place, the degree of significance of component parts, how proposed works will affect the heritage values, the mitigation measures to be adopted to avoid or minimise impacts on heritage values and any possible heritage benefits. 	Cross Yarra Partnership has implemented an Env Environmental Management Plan. The aspect-sp Management Plan with site specific controls deta Implementation Plans. This is subject to stakeho reviewed by the project's Independent Reviewer a

n Environmental Management System and prepared a Construction truction Management Plan Sub-plan includes aspect-specific ement Plan. These plans have been reviewed by the project's dependent Environmental Auditor.
n Environmental Management System and prepared a Construction truction Management Plan Sub-plan includes aspect-specific ement Plan. These plans have been reviewed by the project's dependent Environmental Auditor.
n Environmental Management System and prepared a Construction truction Management Plan Sub-plan includes aspect-specific nent Plan and Health and Safety Management Plan. In addition, a tion Plan has been prepared. These plans have been reviewed by ted by the Independent Environmental Auditor.
n Environmental Management System and prepared a Construction h and Safety Management Plan. This includes a Hazardous aterial are managed in accordance with the Environmental been reviewed by the project's Independent Reviewer and audited
cinct is presented in 4.4.3 of the Development Plan.
n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Heritage s detailed in the precinct-specific Site Environmental keholder consultation requirements with Heritage Victoria, wer and audited by the Independent Environmental Auditor.

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Historical Cultural Heritage	СНЗ	 To avoid or minimise impacts on the cultural heritage values of heritage places, prior to commencement of relevant works: a) Perform works in accordance with the following noise and vibration and ground movement EPRs as related to heritage places: NV2, NV3, NV4, NV8, NV9, NV21, GM2, GM3, GM4, GM5, GM6 b) Undertake condition assessments of heritage places prior to commencement of construction of relevant works where located within the identified vibration and ground settlement zones of sensitivity and monitor as per NV8,GM3, GM4 and GM5. Should damage occur to a heritage place as a result of works, undertake rectification works in accordance with accepted conservation practice (with reference to the Australia ICOMOS Burra Charter 2013) with input from a qualified heritage practitioner and in consultation with the land owner and relevant local Council for places in a local Heritage Overlay, or with the written approval of the Executive Director of Heritage Victoria for places included in the Victorian Heritage Register. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan, Noise and Vibration Manage controls detailed in the precinct-specific Site En stakeholder consultation requirements with Her and audited by the Independent Environmental A
Historical Cultural Heritage	CH4	1. Prior to commencement of relevant works, undertake archival photographic recording in accordance with Heritage Victoria's specification for the archival photographic recording of heritage places where heritage places are to be demolished or modified or their setting is to be impacted by works. The archival recording is to be provided to Heritage Victoria for places in the VHR and the relevant local council for places included in the Heritage Overlay and approved in writing. Once approved, a copy of the recording is to be lodged with the La Trobe Picture Collection, State Library of Victoria.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan, Noise and Vibration Manage controls detailed in the precinct-specific Site Er stakeholder consultation requirements with Her and audited by the Independent Environmental
Historical Cultural Heritage	CH5	 Prior to the construction of works that affect heritage structures or places, where it is proposed to dismantle, store and reconstruct heritage fabric, develop detailed methodology in accordance with the Australia ICOMOS Burra Charter 2013 and in consultation with Heritage Victoria or the land owner or relevant local council (as applicable). Work is to be documented and overseen by an appropriately qualified heritage practitioner. Prior to dismantling the following heritage places, develop interpretative material for display while the heritage fabric is not visible: Burke and Wills Monument. University of Melbourne Main Entrance Gate (Gate 6) Pillars and Fence (VHR H918). 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan, Noise and Vibration Manage controls detailed in the precinct-specific Site En stakeholder consultation requirements with Her and audited by the Independent Environmental
Historical Cultural Heritage	CH6	1. Prior to commencement of relevant works which may directly or indirectly affect heritage places, develop and implement appropriate protection measures for heritage places and their settings. This is to be done in consultation with the land owner, and Heritage Victoria or relevant council (as applicable).	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan, Noise and Vibration Manage controls detailed in the precinct-specific Site En stakeholder consultation requirements with Her and audited by the Independent Environmental
Historical Cultural Heritage	CH7	 In consultation with Heritage Victoria and as required by the <i>Heritage Act</i> 2017: a) Develop archaeological management plans to manage disturbance of archaeological sites and values affected by the Project. b) Undertake investigation in accordance with the Guidelines for Investigating Historical Archaeological Artefacts and Sites, Heritage Victoria 2014 (as amended or updated). 2. Develop and implement a protocol for managing previously unidentified historical archaeological sites discovered during Project works. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan, Noise and Vibration Manage controls detailed in the precinct-specific Site En stakeholder consultation requirements with Her
Historical Cultural Heritage	CH8	 In consultation with Heritage Victoria, the relevant local council and/or Aboriginal Victoria (as applicable), develop and implement, a heritage interpretation strategy for places in the VHR and VHI or which explores historical and Aboriginal cultural heritage themes. This must also include the railway workshop buildings in the proposed Railway Reserve Precinct (proposed H01093) located at 173–199 Laurens Street, North Melbourne in the Arden precinct. The heritage interpretation strategy should consider the MMRA Creative Strategy. 	and audited by the Independent Environmental In consultation with Heritage Victoria, the City o interpretation strategy has been developed for t strategy takes into consideration the RPV Creat information on the heritage interpretation strate
Historical Cultural Heritage	CH9	1. Undertake all underground service works beneath or within heritage places or tree protection zones (TPZs) for trees as part of heritage places to avoid, minimise and mitigate impacts to the heritage fabric.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan and Ecology Management Pl Site Environmental Implementation Plans and T consultation requirements with Heritage Victori Independent Reviewer and audited by the Indep
Historical Cultural Heritage	CH10	1. Ensure new development is responsive to heritage places in terms of height, massing, form, façade articulation, materials and impacts on their settings and key views.	Historical cultural heritage at CBD North precine
Historical Cultural Heritage	CH11	1. Ensure no direct impact on heritage buildings on the former Glueworks site in Kensington.	This is not relevant to CBD North precinct. Refe
Historical Cultural Heritage	CH12	1. Retain and protect Langford Street pumping station as part of the design for the new substation.	This is not relevant to CBD North precinct. Refer
Historical Cultural Heritage	CH13	 In consultation with VicRoads, Heritage Victoria and/or the relevant local council, replace removed Elm trees in Royal Parade as part of Project delivery using appropriate species and re-establish the boulevard formation and heritage values. Provide suitable soil conditions to facilitate the growth of new trees to reach the size of the existing mature trees in the boulevard. (See EPR AR3). 	This is not relevant to CBD North precinct. Refer

Environmental Management System and prepared a Construction et-specific control measures are identified in the Heritage agement Plan and Ground Movement Plan with site specific Environmental Implementation Plans. This is subject to Heritage Victoria, reviewed by the project's Independent Reviewer al Auditor.

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Environmental Management System and prepared a Construction et-specific control measures are identified in the Heritage agement Plan and Ground Movement Plan with site specific Environmental Implementation Plans. This is subject to Heritage Victoria, reviewed by the project's Independent Reviewer ral Auditor.

Environmental Management System and prepared a Construction et-specific control measures are identified in the Heritage agement Plan and Ground Movement Plan with site specific Environmental Implementation Plans. This is subject to Heritage Victoria, reviewed by the project's Independent Reviewer al Auditor

Environmental Management System and prepared a Construction et-specific control measures are identified in the Heritage agement Plan and Ground Movement Plan with site specific Environmental Implementation Plans. This is subject to Heritage Victoria, reviewed by the project's Independent Reviewer al Auditor

y of Melbourne and other relevant councils, a heritage or the Project which includes the publicly accessable stations. This eative Strategy. Refer to the Station Development Plans for further ategy for public-facing areas.

Environmental Management System and prepared a Construction et-specific control measures are identified in the Heritage t Plan with site specific controls detailed in the precinct-specific d Tree Protection Plans. This is subject to stakeholder oria. The management plans are reviewed by the project's <u>ependent Environmental Auditor</u> cinct is presented in 4.4.3 of the Development Plan.

efer to the Western Portal Development Plan.

efer to the Intake Substation Development Plan.

efer to the Parkville Precinct Development Plan.



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Historical Cultural Heritage	CH14	1. During detailed design ensure the eastern Parkville station entry is set no less than 8-10 metres from the original Gatekeeper's Cottage and an appropriate boundary treatment is retained or re-established for the heritage building.	This is not relevant to CBD North precinct. Refer to the Parkville Precinct Development Plan.
Historical Cultural Heritage	CH15	1. During detailed design for the Town Hall station, consult with City of Melbourne regarding the incorporation of the Charles Bush sculpture into the design for the new building on the Port Phillip Arcade site, preferably in a prominent position on the Flinders Street façade.	This is not relevant to CBD North precinct. Refer to the CBD South Precinct Development Plan.
Historical Cultural Heritage	CH16	1. In the event that temporary or permanent relocation of the Burke and Wills Monument from its current site is required, resolve the final location of the monument in consultation with the City of Melbourne prior to the commencement of relevant works. (See EPR CH5).	This is not relevant to CBD North precinct. Refer to the CBD South Precinct Development Plan.
Historical Cultural Heritage	CH17	1. Integrate the bluestone pillar and cast iron fencing at the corner of Grattan Street and Royal Parade into the design for the station entry and surrounds in consultation with the University of Melbourne.	This is not relevant to CBD North precinct. Refer to the Parkville Precinct Development Plan.
Historical Cultural Heritage	CH18	 Replace removed trees as part of Project delivery in accordance with relevant policy documents and to reinstate heritage values in consultation with the City of Melbourne, the City of Port Phillip, Heritage Victoria, the Shrine of Remembrance and Shrine Trustees (as applicable). Policy documents are as follows. a) Any Conservation Management Plan adopted by those bodies, including: i Domain Parklands Conservation Management Plan (2016) and the Domain Parklands Masterplan (when completed). ii Shrine of Remembrance Conservation Management Plan (Lovell Chen, 2010) or any future review and the Shrine of Remembrance Landscape Improvement Plan (Rush Wright Associates, 2010). iii South African Soldiers Memorial Conservation Management Plan (Context, 2016). (See EPR AR3). 	This is not relevant to CBD North precinct. Refer to the Domain Precinct Development Plan.
Historical Cultural Heritage	CH19	 In consultation with Heritage Victoria, the City of Melbourne, the Shrine of Remembrance and Shrine Trustees (as applicable), review the siting and design of the eastern Domain station entry during detailed design to ensure it is as recessive as possible in this location and has only a limited presence on the edge of the Shrine of Remembrance Reserve. The design needs to allow for the maintenance of an appropriate setting to the Macpherson Robertson Memorial Fountain. 	This is not relevant to CBD North precinct. Refer to the Domain Precinct Development Plan.
Historical Cultural Heritage	CH20	 Prior to dismantling the South African Soldiers Memorial, in consultation with City of Port Phillip and Heritage Victoria develop interpretive material to display in the precinct until the monument is restored. For detailed design, in consultation with City of Port Phillip and Heritage Victoria review the siting and design of the western Domain station entry to ensure the South African Soldiers Memorial and other components of the Albert Road Reserve retain their heritage values including an appropriate setting. If no appropriate setting can be established, consider options for relocation of the memorial to an alternative site. 	This is not relevant to CBD North precinct. Refer to the Domain Precinct Development Plan.
Historical Cultural Heritage	CH21	 In consultation with VicRoads, Heritage Victoria and relevant local councils, replace any trees in St Kilda Road that must be removed in a manner which will re-establish the boulevard formation and reinstate heritage values. Resolve the physical and visual impacts of new above ground structures and changes to the functional layout with input from Heritage Victoria, relevant local council, VicRoads, Yarra Trams and PTV/DEDJTR (Transport) in the Heritage Impact Statement (HIS). 	This is not relevant to CBD North precinct. Refer to the Domain Precinct Development Plan.
Historical Cultural Heritage	CH22	1. Retain and protect the Cross Street Electrical Substation in situ within or abutting proposed construction site.	This is not relevant to CBD North precinct. Refer to the Rail Turnback Precinct Development Plan.
Historical Cultural Heritage	CH23	1. Ensure that, where impacted by Project works, street fabric and infrastructure is conserved and/or accurately reconstructed in consultation with Heritage Victoria and the relevant local council.	Street fabric and infrastructure at the CBD North precinct is presented in Section 4.4.3 of the Development Plan.
Historical Cultural Heritage	CH24	 Prior to commencement of main works, consider the construction noise and vibration pre-construction surveys and review the ground movement plan required by EPR GM3.On this basis, identify heritage places that may be vulnerable to damage from construction and identify appropriate mitigation measures to prevent damage to heritage places. Prior to the commencement of main works: a) Conduct pre-construction condition surveys of heritage places identified as potentially being vulnerable to damage to record structural condition and structural integrity. b) Implement the identified mitigation measures to prevent damage to heritage places in consultation with Heritage Victoria and the relevant local council (as applicable). c) Conduct vibration monitoring at the heritage places that may be vulnerable to damage to assess the actual impacts from construction works. If the vibration monitoring demonstrates that a heritage place has been, or may be, damaged as a result of vibration, ground vibration must be reduced until the risk of vibration related damage is assessed as acceptable. Construction techniques must also seek to limit, as far as practicable, ground movement to avoid causing damage to heritage places, (see also EPRs GM3, GM4, GM5, GM6, NV4, NV8 and NV2). 	Cross Yarra Partnership has implemented an Environmental Management System and prepared a Construction Environmental Management Plan. The aspect-specific control measures are identified in the Heritage Management Plan, Noise & Vibration Management Plan & Ground Movement Plan with site specific controls detailed in the precinct-specific Site Environmental Implementation Plans. This is subject to stakeholder consultation requirements with Heritage Victoria, reviewed by the project's Independent Reviewer and audited by the Independent Environmental Auditor.



Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
EMF	EMF1	 Prior to commencement of Project works, prepare and implement an Environmental Management System (EMS) that is certified to ISO 14001:2015 Environmental Management Systems – requirements with guidance for use for construction and operation. 	Cross Yarra Partnership has implemented an E ISO14001:2015, and prepared a Construction E Management Plan will be prepared prior to the detailed in the precinct-specific Site Environme the project's Independent Reviewer and audited
EMF	EMF2	 Prepare a Construction Environmental Management Plan (CEMP), Site Environment Implementation Plans (SEIP), Operations Environmental Management Plan (OEMP) and other plans as required by the Environmental Performance Requirements (EPRs) and as relevant to any stage of the Project. Develop a program to set out the process and timing for development of an EMS, CEMP, SEIP, OEMP and other plans as required by the EPRs and as relevant to any stage of the Project. The process for development of and implementation of the CEMP, the SEIP and OEMP must include consultation with Councils, Heritage Victoria, the Roads Corporation, Melbourne Water, Public Transport Victoria (PTV)/DEDJTR (Transport), the Environment Protection Authority (EPA) and other stakeholders as relevant. These consultation processes must be described in the program. Plans are to be reviewed in accordance with the EMF. The CEMP should be prepared in accordance with EPA Publication 480, Environmental Guidelines for Major Construction Sites (EPA 1996). 	Cross Yarra Partnership has implemented an E Environmental Management Plan. An Operation the operation phase of the Project. Site specific Environmental Implementation Plans. These pl and audited by the Independent Environmental
EMF	EMF3	1. Prior to commencement of Project works, appoint an Independent Environmental Auditor to audit proposed plans, as required in the Incorporated Document, so as to ensure the plans comply with the EPRs and to undertake environmental audits of compliance with the approved CEMP, SEIP, OEMP (the OEMP is for Public Private Partnership (PPP) only), EPRs and approval conditions.	An Independent Environmental Auditor has bee and is undertaking environmental audits to sati
EMF	EMF4	 Prior to commencement of Project works, develop and implement a process for the recording, management and resolution of complaints from affected stakeholders consistent with Australian Standard AS/NZS 10002: 2014 Guidelines for Complaint Management in Organisations. The complaints management approach will be documented in the Community and Stakeholder Engagement Management Framework required under EPR SC3 and be integrated with the Proponent and Contractors' own EMS'. The complaints management system will address requirements of the Business Support Guidelines for Construction (BSGC). (See EPR B2). 	Rail Projects Victoria has implemented a proce as documented in the Communications and Sta Communications and Stakeholder Engagement This plan has been reviewed by the project's In- Environmental Auditor.
Electro Magnetic Interference	EMI1	 During detailed design activities for main works: a) Undertake a Project wide Electro Magnetic Interference (EMI) assessment for existing infrastructure, considering: i Baseline conditions. ii Stakeholder requirements. iii Manufacturer specifications of sensitive equipment. iv Any electromagnetic emissions where the magnetic fields are altered by moving metallic objects and which may alter the operation of any electrical or electronic equipment to be used during construction and operation of the Project. b) Undertake baseline monitoring of sensitive equipment in accordance with any relevant manufacturer environmental test requirements, where available. c) Determine operational EMI limits in consultation with sensitive equipment owners having regard to equipment manufacturer environmental specifications where available and background EMI levels. d) If EMI limits are expected to be exceeded, as a result of either the construction and/or operation of the Project, design mitigation measures, in consultation with equipment owners, so as to minimise impact on sensitive equipment in accordance with "best practice" industry standards. The findings of the assessment undertaken in EPR EMI1 should be summarised and addressed in the Management Plan prepared in response to EPR EMI2. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect-s Management Plan (Electro-Magnetic Compatib project's Independent Reviewer and audited by
Electro Magnetic Interference	EMI2	 Prior to commencement of relevant works, prepare and implement an Electro Magnetic Compatibility (EMC) Management Plan that includes the following (but is not necessarily limited to): a) An assessment of the likely electromagnetic emissions generated by the main works and the operation of the Project. b) Identification of sensitive equipment that might be affected by those electromagnetic emissions and the proposed management measures. c) A testing strategy in accordance with equipment specifications to monitor performance of appropriate management measures. d) Identification of possible works to sensitive equipment to avoid adverse impacts. e) A program for regular auditing of electronic and electrical systems during the construction, testing and commissioning. f) Remedial action to be undertaken if EMI limits are not met during the construction, testing, commissioning and operation of the Project. 	Cross Yarra Partnership has implemented an El Environmental Management Plan. The aspect-s Management Plan (Electro-Magnetic Compatib project's Independent Reviewer and audited by
Terrestrial flora and fauna	FF1	1. Where the removal of native vegetation is 'unavoidable' (as defined under relevant policy) meet the requirements of the Permitted Clearing of Native Vegetation – Biodiversity Assessment Guidelines.	There is no native vegetation present in CBD No

Environmental Management System that is certified to Environmental Management Plan. An Operational Environmental ne operational phase of the Project. Site specific controls are mental Implementation Plans. These plans have been reviewed by ted by the Independent Environmental Auditor.

n Environmental Management System, and prepared a Construction ional Environmental Management Plan will be prepared prior to ific controls are detailed in the precinct-specific Site plans have been reviewed by the project's Independent Reviewer tal Auditor.

een appointed to ensure the relevant plans comply with the EPRs atisfy this EPR.

cess for the recording, management and resolution of complaints, Stakeholder Engagement Management Framework. CYP's ent Management Plan has been prepared to reflect this process. Independent Reviewer and audited by the Independent

Environmental Management System and prepared a Construction et-specific control measures are identified in the Design tibility Management Plan). These plans have been reviewed by the by the Independent Environmental Auditor.

n Environmental Management System and prepared a Construction et-specific control measures are identified in the Design tibility Management Plan). These plans have been reviewed by the by the Independent Environmental Auditor.

North precinct.

Cross Yarra Partnership Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Terrestrial flora and fauna	FF2	1. Develop and implement measures to avoid the spread or introduction of weeds and pathogens during construction, including vehicle and equipment hygiene.	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect- Management Plan with site specific controls d Implementation Plans. These plans have been the Independent Environmental Auditor.
Terrestrial flora and fauna	FF3	1. Trees identified for removal under EPR AR1, which may be used for breeding by native wildlife, should be removed outside the spring breeding season (August-December inclusive) where practicable. Immediately prior to site clearance for construction, large old trees with habitat hollows must be inspected by a suitably experienced and qualified arborist, to check for fauna occupancy, and native fauna removed and released at a nearby location immediately outside the impact zones.	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect- Management Plan with site specific controls d Implementation Plans. CYP has prepared a Tre works. These plans have been reviewed by the Environmental Auditor
Greenhouse Gas	G1	1. Prior to commencement of main works, develop and implement a Sustainability Management Plan to meet, as a minimum, the Melbourne Metro sustainability targets, including achieving the specified ratings under the Infrastructure Sustainability Council of Australia's Infrastructure Sustainability Rating Tool and the Green Star Design and As Built Melbourne Metro Rail Tool.	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect- Management Plan. This is reviewed by the proj Environmental Auditor (this includes audits of throughout construction).
Greenhouse Gas	G2	1. Monitor and report on how each of the best practice GHG abatement measures and sustainability initiatives identified in the Concept Design is implemented in the detailed design of the Project and whether any additional measures not included in the Concept Design are feasible.	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect- Management Plan, which includes sub-plans so reviewed by the project's Independent Reviewe includes audits of performance against the mo
Ground Movement and Land Stability	GM1	 Prior to commencement of shaft construction and prior to commencement of main works, develop and maintain geological and groundwater model(s) (as per EPR GW2) for each Works Package which: a) Use monitored ground movement and ground water levels prior to construction to identify pre-existing movement. b) Inform tunnel design and the construction techniques to be applied for the various geological and groundwater conditions. c) Assess potential drawdown and identify trigger levels for implementing additional mitigation measures to minimise potential primary consolidation settlement. d) Assess potential ground movement effects from excavation and identify trigger levels for implementing additional mitigation measures to minimise potential ground movement effects. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. The manage Ground Movement Management Plan which se reviewed by the project's Independent Reviewe Auditor.
Ground Movement and Land Stability	GM2	1. Design and construct the permanent structures and temporary works to limit ground movements to within appropriate acceptability criteria (to be determined in consultation with relevant stakeholders, local councils and land managers and which build upon the assumptions for criteria presented in the EES) for vertical, horizontal, and angular deformation as appropriate for Project activities during the construction and operational phase. In the design of the works and the planning of construction and mitigations, incorporate the findings of investigations reported in the EES and subsequent relevant investigations.	Relevant only to construction phase of the pro Requirements will be in accordance with MMR requires Cross Yarra Partnership to have an En Management Plan, Site Environment Implement specified in Environmental Performance Requirequirements and review by the Independent E
Ground Movement and Land Stability	GM3	 Prior to commencement of shaft construction and prior to commencement of main works, develop and implement a Ground Movement Plan(s) for each Works Package for construction and operational phases of the Project that: a) Addresses the location of structures/assets which may be susceptible to damage by ground movement resulting from Melbourne Metro works, having particular regard to heritage places and EPR CH2. b) Identifies appropriate ground movement impact acceptability criteria for buildings, utilities, trains, trams and pavement after consultation with the various stakeholders. c) Identifies mitigation measures to ensure acceptability criteria can be met. d) Identifies techniques for limiting settlement of buildings and protecting buildings from damage. Where these may apply to heritage places, they should be developed in consultation with Heritage Victoria and the relevant local council (as applicable). e) Addresses additional measures to be adopted if acceptability criteria are not met such as reinstatement of any property damage. For heritage places, refer to EPR CH2 and CH24. f) Establishes ground movement monitoring requirements for the area surrounding proposed Melbourne Metro works and at the location of various structures/assets to measure consistency with the predicted model. g) Consult with land and assets owners that could be potentially affected and whereby mitigation measures would be required. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect- Management Plan, which has been reviewed by audited by the project's Independent Environme

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Ecology s detailed in the precinct-specific Site Environmental en reviewed by the project's Independent Reviewer and audited by

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Ecology s detailed in the precinct-specific Site Environmental Tree Protection Plan and Tree Protection and Removal Plan for the he project's Independent Reviewer and audited by the Independent

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Sustainability roject's Independent Reviewer and audited by the Independent of performance against the most material aspects each quarter

n Environmental Management System and prepared a Construction act-specific control measures are identified in the Sustainability s such as Climate Resilience, Carbon and Energy. These plans are wer and audited by the Independent Environmental Auditor (this most material aspects each quarter throughout construction).

n Environmental Management System and prepared a Construction agement system includes a Groundwater Management Plan and set out the relevant models are managed. These plans have been wer and audited by the project's Independent Environmental

project. Compliance with construction Environmental Performance MRA's approved Environmental Management Framework, which Environmental Management System, Construction Environmental nentation Plans and Ground Movement Management Plan (as quirements). This is subject to separate stakeholder consultation t Environmental Auditor, including quarterly audits of performance

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Ground Movement by the project's Independent Reviewer. These plans are also mental Auditor.

Cross Yarra Partnership Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

		i di thership	
Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Ground Movement and Land Stability	GM4	 Conduct pre-construction condition surveys for the assets predicted to be affected by ground movement, including where a property owner reasonably expects to be potentially affected and has requested a pre-construction condition survey. Develop and maintain a data base of as-built and pre-construction condition information for each potentially affected structure identified as being in an area susceptible to damage (see EPR GM3) or where a property owner has requested a pre-construction condition survey, specifically including: a) Identification of structures/assets which may be susceptible to damage resulting from ground movement resulting from Melbourne Metro works. b) Results of condition surveys of structures, pavements, significant utilities and parklands to establish baseline conditions and potential vulnerabilities. c) Records of consultation with landowners in relation to the condition surveys. d) Post-construction stage condition assessments and records of consultation with the property owner proactively. f) Ensure all stakeholder engagement activities are undertaken in accordance with the contractors Community and Stakeholder Engagement Management Plan. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect-s Plan and Communications and Stakeholder En- undertaking condition surveys. These plans hav plans are also audited by the Independent Envir
Ground Movement and Land Stability	GM5	1. Adopt construction techniques for Melbourne Metro to limit ground movement to within appropriate acceptability criteria (to be determined in consultation with relevant stakeholders).	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect-s Plan, which is reviewed by the project's Indeper Environmental Auditor.
Ground Movement and Land Stability	GM6	1. For properties and assets affected by ground movement, undertake any required repair works or other actions as agreed with the landowner. For places on the VHR, consultation with Heritage Victoria and the relevant local council must occur (as applicable).	Cross Yarra Partnership has implemented an Ei Environmental Management Plan. The aspect-s Plan and Heritage Management Plan, which is r also audited by the Independent Environmental
Groundwater	GW1	 Design the tunnel and underground structures so that they minimise changes to groundwater levels during construction and operation to minimise impacts on groundwater dependent values, ground movement and contamination plume migration. In the case of existing, registered groundwater bore users, for the assessment of tolerable groundwater drawdown criteria, drawdown level should not exceed the point where the available saturated aquifer thickness of the bore is reduced by further than 10 per cent. 	Cross Yarra Partnership has implemented an Ei Environmental Management Plan. The aspect-s Management Plan and Ground Movement Plan, Reviewer. These plans are also audited by the li
Groundwater	GW2	 Develop a groundwater model through a process that involves ongoing referral to the Independent Environmental Auditor consistent with the Australian Groundwater Modelling Guidelines (Barnett et al, 2012). Apply the model for the detailed design phase to predict impacts associated with any changes to construction techniques or operational design features proposed during detailed design, and reconfirm that the EPRs and mitigation measures are sufficient to mitigate impacts from changes in groundwater levels, flow and quality. The groundwater model should be updated to address comprehensively transient calibration, aquifer specific storage parameter values and their justification, prediction of cumulative impacts during construction and uncertainty assessments. Ensure that the model geometry set-up (node and grid network of model and layering definition) is accurately matched into the Project's detailed design excavation geometry. Undertake monitoring during construction to ensure that predictions are accurate and mitigation measures are appropriate, and adjust the model if required. 	Cross Yarra Partnership has implemented an Ei Environmental Management Plan. An Operation the operational phase of the Project. The aspec Management Plan with site specific controls de Implementation Plans. These have been review Independent Environmental Auditor.

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Ground Movement Engagement Management Plan, which set out the process for have been reviewed by the project's Independent Reviewer. These nvironmental Auditor.

n Environmental Management System and prepared a Construction et-specific control measures are identified in the Ground Movement pendent Reviewer. These plans are also audited by the Independent

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Ground Movement is reviewed by the project's Independent Reviewer. These plans are ntal Auditor.

n Environmental Management System and prepared a Construction ct-specific control measures are identified in the Groundwater lan, which have been reviewed by the project's Independent ne Independent Environmental Auditor.

n Environmental Management System, and prepared a Construction tional Environmental Management Plan will be prepared prior to pect-specific control measures are identified in the Groundwater s detailed in the precinct-specific Site Environmental ewed by the project's Independent Reviewer and audited by the



Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Groundwater	GW3	 Prior to commencement of shaft construction and prior to commencement of main works, develop and implement a Groundwater Management Plan (GWMP) for each Works Package detailing groundwater management approaches to address the predicted impacts to groundwater dependent values during construction and to ensure protection of groundwater dependent values. The GWMP must be based on the detailed design phase groundwater model, and should include the following details: a) Approach to collection, treatment and disposal of groundwater collected during construction in accordance with the MMRA Groundwater Disposal Strategy. b) Identifying and if necessary, specifying mitigation measures to protect groundwater dependent vegetation during periods of drawdown. c) An approach identified in consultation with the EPA so that contaminant migration causes no significant impacts on beneficial uses or vapour intrusion into underground structures, and establish appropriate monitoring networks to measure the effectiveness of the approach. d) Methods for minimising drawdown in areas of known PASS and establishing appropriate monitoring networks to confirm effectiveness of approach. e) Methods for minimising drawdown at any existing recharge bores, and establishing appropriate monitoring networks to measure the effectiveness of mitigation. f) Groundwater drawdown trigger levels for groundwater dependent values at which additional mitigation measures must be adopted. g) Design, operation and management of groundwater conditions be encountered. The GWMP must be developed in consultation with EPA and relevant water authorities. The GWMP should also address MMRA's sustainability requirements where appropriate. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan with site specific controls de Implementation Plans. This has been reviewed Independent Environmental Auditor.
Groundwater	GW4	1. Use the Groundwater Disposal Strategy and GWMP to obtain a Trade Waste Agreement with the relevant Water Retailers for groundwater disposal.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan with site specific controls de Implementation Plans. These plans set out the have obtained required Trade Waste Agreement by the project's Independent Reviewer and audit
Groundwater	GW5	 Prior to commencement of shaft construction and prior to commencement of main works, develop and implement a groundwater monitoring plan as part of the GWMP for each Works Package that details sufficient monitoring of groundwater levels to verify that no significant impacts occur from potential: a) Contaminant migration on the beneficial uses of groundwater at third party properties caused by drawdown or vapour intrusion to underground structures b) Activation of PASS and groundwater acidification c) Reduction in access to water for bore owners in the area around the Project d) Reduction in access to groundwater for trees – particularly in the Tunnels precinct between Town Hall and Domain stations, and the Town Hall station and eastern portal precincts e) Change in injection rates in any existing recharge bores that may be present in the area around the Project. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan with site specific controls de Implementation Plan. This has been reviewed b Independent Environmental Auditor.
Land Use and Planning	LU1	 Prior to commencement of relevant works, develop and implement a plan for construction and operation of the Project that has as its purpose minimising impacts on existing land uses during both early works and main works, including by: a) Limiting the extent of any permanent change of use within existing public open space. b) Minimising the footprints of construction sites and any permanent infrastructure which is to be located on public land. c) Locating and designing all Project works to avoid, to the extent practicable, any temporary and permanent loss of public open space to maximise the re-instatement potential of that land. d) Minimising impacts to existing public open spaces and recreational facilities and the users of these facilities, including (but not limited to): JJ Holland Park, University Square, the Melbourne City Baths, City Square, Federation Square, the Shrine of Remembrance and the Shrine Reserve, Domain Parklands, Edmund Herring Memorial Oval, and the Albert Road Reserve. e) Minimising the impacts to existing residential areas by locating new above ground infrastructure, such as electrical substations in appropriate locations considering adjoining properties and exploring the co-location of rail infrastructure facilities where practicable. f) Ensuring residents are notified in advance of works in accordance with EPRs SC4 and SC10. 2. Such measures must be developed in consultation with affected land managers for public land, local councils and key stakeholders, as applicable. (1) The approach to defining key stakeholders is to be outlined in the Community and Stakeholder Engagement Management Framework (see EPR SC3). 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Management Plan. This has been reviewed by t Independent Environmental Auditor. Land use and planning, in particular the impact North Precinct Development Plan.

Environmental Management System and prepared a Construction -specific control measures are identified in the Groundwater
detailed in the precinct-specific Site Environmental d by the project's Independent Reviewer and audited by the
a by the project's independent neviewer and addited by the
Environmental Management System and prepared a Construction -specific control measures are identified in the Groundwater
detailed in the precinct-specific Site Environmental e process for identifiying and obtaining relevant approvals. CYP
ents for works at Anzac station. These plans have been reviewed
dited by the Independent Environmental Auditor.
Environmental Management System and prepared a Construction
-specific control measures are identified in the Groundwater detailed in the precinct-specific Site Environmental
by the project's Independent Reviewer and audited by the
Environmental Management System and prepared a Construction
-specific control measures are identified in the Land Use the project's Independent Reviewer and audited by the
ct on existing land use, is addressed in Section 4.4.4 of the CBD



Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Land Use and Planning	LU2	 Development of the Project must be generally in accordance with the relevant Open Space Master Plans (including but not limited to, the Domain Parklands, and University Square Master Plans and Chapel ReVision Structure Plan), and be consistent with the Melbourne Metro Urban Design Strategy and EPR SC8 in designing and constructing above ground infrastructure for the tunnels. Consultation must occur with land managers and/or agencies responsible for the implementation of the relevant Open Space Master Plans, including local councils and key stakeholders. The outputs must be consistent with EPR SC8. 	The design of CBD North precinct has been con presented in Section 4.4.4 of the CBD North Pre
Land Use and Planning	LU3	 Prior to commencement of relevant works, develop and implement a plan for the design and construction of Arden station that adopts an integrated approach to urban design and planning of the station and which is generally in accordance with the Vision and Framework Plan for Arden. This must include consultation with the Victorian Planning Authority, City of Melbourne and any other relevant agencies such as Melbourne Water and the plan must be referred to the Urban Design and Architectural Advice Panel (UDAAP). The design must include integrated water sensitive urban design (EPR SW2) and management of the extent of flooding across the site. 	This is not relevant to CBD North precinct. Refe
Land Use and Planning	LU4	 Prior to commencement of relevant works, develop and implement a plan in consultation with the Urban Design and Architectural Advice Panel (UDAAP) to ensure the design of the Project meets the Melbourne Metro Urban Design Strategy and relevant planning schemes that considers: a) Permanent above ground structures. b) Temporary structures adopting principles of the Growing Green Guide 2014 including green walls, roofs and facades, where practicable. c) The MMRA Creative Strategy. d) Wayfinding, signage and advertising for above ground elements of the Project. 2. The strategies must be developed in consultation with relevant local councils and land managers. (See EPR LV1). 	This Development Plan and the design of the S UDAAP to ensure it meets the Urban Design Str Plan.
Landscape and visual	LV1	 Prior to commencement of relevant works, develop and implement a plan for the design of permanent and temporary works, including temporary landscaping, in consultation with relevant local councils and the Office of Victorian Government Architect to comply with the Melbourne Metro Urban Design Strategy. Avoid or minimise, to the extent practicable, visual impacts in both duration and intensity on sensitive receptors and heritage places, and maintain broader landscape character and heritage precinct values, particularly in relation to: a) Tunnels: Queen Victoria Gardens, Tom's Block. b) Western Portal: JJ Holland Park. c) Parkville Station: University of Melbourne, Victorian Comprehensive Cancer Centre, Royal Melbourne Hospital, University Square. d) State Library Station: RMIT University, the State Library and State Library Forecourt, City Baths, and A'Beckett Street open space. e) Town Hall Station: St Paul's Cathedral, Federation Square, City Square, Flinders Street Station, Young and Jackson Hotel. f) Domain Station: The Shrine of Remembrance, Shrine of Remembrance Reserve, St Kilda Road, Albert Road Reserve, Domain Parklands. g) Eastern Portal: South Yarra Sidings Reserve, Osborne Street, Lovers Walk Pedestrian Walk. h) Existing habitat corridors within and proximate to Moonee Ponds Creek, if the alternate substation site adjacent to the Moonee Ponds Creek is selected. 	Landscape and visual impacts at the CBD North Plan.The design of the State Library Station is b Government Architect and City of Melbourne.
Landscape and visual	LV2	 Develop and implement a plan in consultation with the Office of Victorian Government Architect, local councils and other land managers to comply with the Melbourne Metro Urban Design Strategy to re-establish and enhance public open space, recreation reserves and other valued places disturbed by temporary works. Some of these are heritage places and further consultation will be required. The plan must include, but not be limited to, a methodology and timeframe for storage, reinstatement or replacement of existing public art, monuments and public infrastructure such as poles (including banner poles), bins, and other street furniture such as wayfinding signage (including signage hubs). Where temporary works on public open space, recreation reserves and other valued places disturb trees in these locations, the plan must be consistent with measures proposed under plans and actions required under EPR AR1, AR2 and AR3 regarding reinstatement of trees. The plan should include a timeframe for re-establishment of public open space, recreation reserves and other valued places disturbed by temporary works and should also include exploring opportunities for renewal of public spaces for the benefit of communities beyond resident groups, including visitors, business owners and commuters. 	The re-establishment of public open space is p Development Plan.
Landscape and visual	LV3	1. Prior to commencement of relevant works where temporary lighting is required, develop measures to minimise light spillage during construction to protect the amenity of adjacent neighbourhoods, parks and community facilities. Lighting for operation must be designed in accordance with council requirements and relevant standards.	Cross Yarra Partnership has implemented an E Environmental Management Plan. An Operation the operational phase of the Project. The aspec & Lighting Management Plan and the Urban De project's Independent Reviewer. The Independe Urban Design process is outlined in the Constru
Landscape and visual	LV4	1. Develop and implement a plan to consider the use of temporary landscape and other temporary features or structures during construction. Temporary landscape treatments or features should be reused across the Project, where appropriate.	Cross Yarra Partnership has implemented an E Environmental Management Plan. The aspect-s Management Plan, which has been reviewed by Environmental Auditor has audited these plans, Environmental Management Plan.

considered in accordance with relevant Master Plans, this is Precinct Development Plan.

efer to the Arden Station Precinct Development Plan.

State Library Station was developed in consultation with the Strategy. This is presented in Section 4.4.4 of the Development

orth precinct are presented in Section 4.4.5 of the Development is being addressed in consultation with the Office of the Victorian

presented in Section 4.4.5 of the CBD North Precinct

n Environmental Management System, and prepared a Construction tional Environmental Management Plan will be prepared prior to bect-specific control measures are identified in the Air Quality, Dust Design Management Plan, which have all been reviewed by the indent Environmental Auditor has audited these plans, noting the struction Environmental Management Plan.

n Environmental Management System, and prepared a Construction ct-specific control measures are identified in the Urban Design by the project's Independent Reviewer. The Independent ns, noting the Urban Design process is outlined in the Construction



Author: Elif Aygun Checker: Sabrina Chapman Approver: Mat Peel Date: 27/06/2022

Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV1	1. Manage construction noise in accordance with EPA Publication 1254 Noise Control Guidelines and as specified in the Construction Noise and Vibration Management Plan (CNVMP) prepared under EPR NV21. The CNVMP must not prescribe standards or practices which are less rigorous than recommended by EPA Publication 1254.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific or Implementation Plans. This has been reviewed I Independent Environmental Auditor.
Noise and Vibration	NV2	 For construction works conducted between Town Hall station and Domain station, comply with the requirements of the Notification of Referral Decision for the Melbourne Metro Rail Project (EPBC 2015/7549, dated 22 September 2015) under the EPBC Act for vibration monitoring and measurement, as follows: a) Conduct pre-construction dilapidation surveys of the nearest Commonwealth Heritage listed structures to the construction activity, including the Former Guardhouse (Block B), to record structural condition and structural integrity prior to commencement of tunnelling. b) Conduct vibration monitoring at the commencement of tunnelling in geological conditions that are similar to those at Victoria Barracks in order to quantify the actual tunnel boring machine vibration characteristics (level and frequency) for comparison to the values derived from the literature and the German DIN (DIN 4150) target. c) Conduct continuous vibration monitoring at the nearest Victoria Barracks heritage structures to the construction activity, including the Former Guardhouse (B Block), to assess the actual tunnelling vibration for acceptability, taking into account both the vibration frequency and condition of structures, until monitoring of vibration at the Former Guardhouse (B Block). d) If monitoring conducted according to the above demonstrates the condition of heritage structures may be degraded as a result of vibration, ground vibration must be reduced by adjusting the advance rate of the tunnel boring machine until monitoring of vibration at the Former Guardhouse (B Block). Other management actions to ensure the integrity of the heritage building may be employed if considered to be appropriate. 	This is not located in the CBD North precinct. Re
Noise and Vibration	NV3	 Noise and Vibration Modelling – Design Prior to commencement of shaft construction and prior to commencement of main works, each Works Package contractor must appoint a suitably qualified acoustic and vibration consultant to predict construction noise and vibration (through modelling) and update the modelling to reflect current construction methodology, site conditions and specific equipment noise and vibration levels (this will require noise and vibration measurements). The model is to be used to determine appropriate mitigation to achieve the EPRs. The acoustic and vibration consultant must document the modelling and mitigation investigation in a Construction Noise and Vibration Assessment Report for review by the Independent Environmental Auditor. This report must provide the basis for the development of the construction noise and vibration management plan required under EPR NV21. The model must consider airborne noise to residential and non-residential receivers, ground-borne noise at residences, blasting vibration and ground-borne vibration. (For heritage places see EPR CH24). 	This Development Plan presents the built form of gate as required by the Incorporated Document. Management System and prepared a Constructi control measures are identified in the Noise and detailed in the precinct-specific Site Environmen project's Independent Reviewer and audited by t
Noise and Vibration	NV4	 Noise and Vibration Monitoring - Construction Prior to commencement of shaft construction and prior to commencement of main works, each Works Package contractor must appoint a suitably qualified acoustic and vibration consultant to undertake noise and vibration monitoring. The acoustic and vibration consultant must undertake noise and vibration monitoring to assess levels with respect to any Guideline Targets specified in the EPRs. Where monitoring indicates exceedences of Guideline Targets, appropriate management actions must be implemented as soon as possible. The model developed during the Design Stage should be updated / calibrated using the results of the noise and vibration monitoring to provide more accurate predictions of the noise and vibration levels associated with ongoing and future construction works. It may be appropriate to adjust management measures as a result of the more accurate predictions. (For heritage places see EPR CH24). 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific co Implementation Plans. These plans have been r the Independent Environmental Auditor.
Noise and Vibration	NV5	RMIT University and other precinct reference groups, as appropriate. (See EPRs SC4 and SC11).	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Noise and Vibration Communications Managen Reviewer and audited by the Independent Enviro
Noise and Vibration	NV6	Airborne Construction Noise Guideline Targets (External) 1. Implement management actions if construction noise is predicted to or does exceed the Guideline Noise Levels at residential locations as specified in EPA Publication 1254. See table in EPRs Note (1) During Normal Working Hours, the CNVMP must address noise levels that exceed the Management Levels specified in Table EPR NV21A.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific co Implementation Plans. This is reviewed by the p Environmental Auditor.

Environmental Management System and prepared a Construction st-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental ed by the project's Independent Reviewer and audited by the

. Refer to the CBD South and Domain Precinct Development Plans.

m of the CBD North precinct including the new station to the ticket ent. Cross Yarra Partnership has implemented an Environmental uction Environmental Management Plan. The aspect-specific and Vibration Management Plan with site specific controls mental Implementation Plans. These have been reviewed by the by the Independent Environmental Auditor.

Environmental Management System and prepared a Construction et-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental en reviewed by the project's Independent Reviewer and audited by

Environmental Management System and prepared a Construction st-specific control measures are identified in the Construction gement Plan. This has been reviewed by the project's Independent vironmental Auditor.

vironmental Auditor. In Environmental Management System and prepared a Construction et-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental he project's Independent Reviewer and audited by the Independent



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV7	 Airborne Construction Noise Guideline Targets (Internal) 1. Implement management actions if construction noise: a) Is predicted to or does exceed the internal noise levels below for Sensitive Areas (based on AS/NZS 2107:2000); and b) Adversely impacts a noise sensitive receptor within the Sensitive Area. See EPR for table 2. If construction exceeds the internal noise levels above: a) Consider the duration of construction noise b) Consider the relevant ambient noise levels c) Consult with the owner or operator of the noise sensitive receptor d) Consider any specific acoustic requirements of specialist space to determine whether a noise sensitive receptor within a Sensitive Area is adversely impacted and, if so, whether further management actions are required. (See EPR NV21, subclause B). 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific c Implementation Plans. This is reviewed by the p Environmental Auditor.
Noise and Vibration	NV8	Vibration Guideline Targets for Structures 1. Implement management actions if, due to construction activity, the following DIN 4150 Guideline Targets for structural damage to buildings (for short-term vibration or long-term vibration) are not achieved. See EPR for table NV8-1: Short-term vibration on structures Notes (1) It may be appropriate to modify the guideline targets for particular structures following the completion of pre-construction condition surveys. (2) At frequencies above 100 Hz, the values given in this column may be used as minimum values. (3) Vibration levels marginally exceeding the DIN4150 guideline targets in the table above would not necessarily result in damage to buildings and structures, but warrant further investigation to determine if higher vibration levels can be accommodated without risk of damage. (4) For civil engineering structures (e.g. with reinforced concrete constructions used as abutments or foundation pads) the DIN 4150 guideline targets for Type 1 buildings in the table above may be increased by a factor of 2. (5) Short-term vibration is defined as vibration which does not occur often enough to cause structural fatigue and which does not produce resonance in the structure being evaluated. (6) Where land owners agree, pre-construction condition surveys must be performed at all properties located within designated Project Area where it is predicted that DIN 4150 guideline targets will be exceeded. See EPR for table NV8-2 Long-term vibration on structures (1) It may be appropriate to modify the guidelines targets described in the table above for particular structu	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific c Implementation Plans. These has been reviewe Independent Environmental Auditor.
Noise and Vibration	NV9	Vibration Guideline Targets for Above-ground Utility Assets and Infrastructure 1. Prior to commencement of relevant works, undertake condition assessments of above ground utility assets and infrastructure, including (but not limited to) the Arden Street Bridge and Princes Bridge, to establish construction vibration limits in consultation with asset owners. 2. Monitor vibration during construction to demonstrate compliance with the relevant vibration guideline targets under NV8 or those agreed with the asset owners. Take remedial action if limits are not met. (See EPRs CH3 and CH24).	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s Vibration Management Plan with site specific c Implementation Plans. These have been review Independent Environmental Auditor.
Noise and Vibration	NV10	 Vibration Guideline Targets for Below-ground Infrastructure 1. Prior to commencement of relevant works, undertake condition assessments of below-ground infrastructure, including (but not limited to) Swanston Street Brick Drain and Flinders Street Drain, to establish construction vibration targets with the asset owner. 2. Implement management actions if agreed construction vibration targets (or if no specific targets have been established the following DIN 4150 Guideline Targets for buried pipework/underground infrastructure) from construction are not achieved. See EPR table Notes (1) The DIN 4150 Guideline Targets may be reduced by 50% when evaluating the effects of long-term vibration on buried pipework. (2) The DIN 4150 Guideline Targets are based on the assumption that pipes have been manufactured and laid using current technology (however it is noted that this is not the case for the majority of buried pipework potentially affected by Melbourne Metro). (3) Compliance with asset owner's Utility Standards is to be achieved. 	Cross Yarra Partnership has implemented an Ei Environmental Management Plan. The aspect-s Vibration Management Plan with site specific c Implementation Plans. This is reviewed by the p Environmental Auditor.

Environmental Management System and prepared a Construction et-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental ne project's Independent Reviewer and audited by the Independent

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV11	Vibration Dose Values (VDVs) (Human Comfort) 1. Implement management actions if the following Guideline Targets (VDVs) (based on Table 1 in BS6472-1:2008) for continuous (as for TBMs and road headers), intermittent, or impulsive vibration are not achieved. See EPR table Notes (1) The Guideline Targets are non-mandatory; they are goals that should be sought to be achieved through the application of feasible and reasonable mitigation measures. If exceeded then management actions would be required. (2) The VDVs may be converted to PPVs within a future noise and vibration construction management plan under EPR NV21.	Cross Yarra Partnership has implemented an En Environmental Management Plan. The aspect-s Vibration Management Plan with site specific co Implementation Plans. These have been reviewe Independent Environmental Auditor.
Noise and Vibration	NV12	 Sensitive Equipment Guideline Targets For Construction: Implement management actions (which may include source mitigation) if equipment manufacturer specifications, measured background levels or other agreed levels (after consultation with the affected organisation) whichever are higher, are expected to be or are exceeded for vibration sensitive equipment at the Parkville and CBD North precincts. For Operation: If the manufacturer's specification or measured background levels (whichever are higher) or other agreed levels (after consultation and agreement from the affected organisation) are predicted to be exceeded, assess practicable mitigation to reduce the vibration levels to the relevant target. Where equipment manufacturer specifications are not available for vibration, adopt the applicable ASHRAE Equipment Vibration Guideline Targets: See EPR Table Notes Background vibration and noise must be measured in accordance with equipment environmental test requirements. Monitoring must be undertaken in accordance with equipment specifications to demonstrate compliance, and monitoring locations determined in consultation with operators of sensitive equipment (See EPR NV21). The proponent may undertake consultation with the users and agree alternative Guideline Targets for Construction and/or Operation phases. Subject to being given the asset owner's consent, during the construction phase, a continuous monitoring program must be adopted (to the asset owner's agreement), with asset owner access to monitoring data using an alert with respect to a 'limit' approach. 	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operationa the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These have been reviewe Independent Environmental Auditor.
Noise and Vibration	NV13	Ground-borne (internal) Noise Guideline Targets for Amenity 1. Implement management actions as agreed with potentially affected land owners to protect amenity at residences, sleeping areas in hospital wards, student accommodation and hotel rooms where the following ground-borne noise Guideline Targets are exceeded during construction (See Table below based on NSW Interim Construction Noise Guidelines 2009) Implement management actions, as determined in consultation with potentially affected land owners, where ground-bone noise levels unreasonably limit usage in education institutions such as lecture theatres. See table in EPRs for targets. Notes (1) Levels are only applicable when ground-borne noise levels are higher than airborne noise levels. (2) The noise levels are assessed at the centre of the most affected habitable room. (3) Management actions include extensive community consultation to determine acceptable level of disruption and provision of respite accommodation in some circumstances. (4) The levels of the Night and Evening periods are shown to protect amenity and sleep. Alternative and day time targets may be determined in consultation with potentially affected non-residential users where ground-borne noise levels many reasonably limit the usage of the spaces (e.g. lecture theatres).	Independent Environmental Auditor.
Noise and Vibration	NV14	 Blasting 1. Comply with Australian Standard AS2187.2-2006, Explosives – Storage and use Part 2 – Use of explosives for all blasting. 2. For intensive care wards, hospital wards, operating theatres, surgeries and Bio-resources and areas with vibration sensitive equipment which are not covered in AS2187.2-2006, agree a plan with facilities owners that: a) Avoids damage to vibration sensitive equipment. b) Minimises adverse impact on Sensitive Areas and limits adverse impacts on Bio-resources 	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operationa the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These are reviewed by th Independent Environmental Auditor

Environmental Management System and prepared a Construction -specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental ewed by the project's Independent Reviewer and audited by the Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental ewed by the project's Independent Reviewer and audited by the Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental the project's Independent Reviewer and audited by the Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental the project's Independent Reviewer and audited by the

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV15	 Bio-Resources and Sensitive Research Implement management actions where the following guideline targets (based on Code of Practice for the Housing and Care of Laboratory, Mice and Rats – Department of Primary Industries, Victoria, 2004) are expected to be or are exceeded for areas housing bio-resources: Background noise should be below 50 dBL (internal) and should be free of distinct tones. Short exposure should be less than 85 dBL (internal). Any alternative noise level agreed with the owner of the bio-resources. Notes The nominated levels are guideline targets for both construction and operation. The levels above should take into consideration the limited frequency range associated with hearing for the Bio-resource under consideration. Higher levels may be acceptable if it can be shown that the Bio-resource under consideration is exposed to higher levels and is not adversely impacted by them. Noise includes airborne and ground-borne noise at the sensitive receptors. Consider the existing ambient noise levels when assessing predicted exceedences. During the construction phase, a continuous monitoring program must be implemented in accordance with EPR NV21. Consideration should be given to adopting a vibration limit in agreement with the MMRA and stakeholders. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. An Operation the operational phase of the Project. The aspect Vibration Management Plan with site specific of Implementation Plans. These plans have been the Independent Environmental Auditor.
Noise and Vibration	NV16	 Noise and Vibration Modelling Design Phase Appoint a suitably qualified acoustic and vibration consultant to predict and assess operational noise and vibration and determine practicable mitigation measures necessary to achieve the EPRs. The acoustic and vibration consultant must prepare an Operation Noise and Vibration Report for review by the Independent Environmental Auditor, which documents the predictions and mitigation measures. Commissioning / Operation Appoint a suitably qualified acoustic and vibration consultant to undertake commissioning noise and vibration measurements to assess levels with respect to the EPRs. 	Cross Yarra Partnership has implemented an E Environmental Management Plan. An Operation the operational phase of the Project. The aspect Vibration Management Plan with site specific of Implementation Plans. These plans have been the Independent Environmental Auditor.
Noise and Vibration	NV17	 Victorian Passenger Rail Infrastructure Noise Policy (PRINP) 1. Avoid, minimise or mitigate rail noise where the following PRINP (April 2013) Investigation Thresholds are exceeded during operation: See table in EPRs for targets Notes (1) If an investigation shows that the Investigation Thresholds are not exceeded, then no further action is considered under the PRINP. (2) The barrier thresholds of the PRINP are to be used as the design targets for the barrier heights and configuration. (3) If the Investigation Thresholds cannot be achieved with the installation of barriers or other on-reservation treatment then off-reservation treatment such as upgrades to residential building facades must be considered. Such treatments should be designed to meet the following internal noise levels where practicable to do so and subject to landowner consent: a. Maximum noise levels of trains should not exceed 50 dB LAMAx in living areas. (4) LAmax, is defined as maximum A-weighted sound pressure level and is the 95 percentile of the highest value of the A-weighed sound pressure level reached within the day or night (5) For Melbourne Metro the location of assessment is at 1m from the centre of the window of the most exposed external façade. 	Cross Yarra Partnership has implemented an El Environmental Management Plan. An Operation the operational phase of the Project. The aspec Vibration Management Plan with site specific of Implementation Plans. These plans have been the Independent Environmental Auditor.

n Environmental Management System and prepared a Construction cional Environmental Management Plan will be prepared prior to bect-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental en reviewed by the project's Independent Reviewer and audited by

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV18	Noise from Fixed Plant 1. For operation, noise from fixed plant associated with Melbourne Metro must: a) Comply with State Environment Protection Policy (Control of Noise from Commerce, Industry and Trade) No. N-1 (SEPP N-1). b) Where SEPP N-1 does not apply, comply with the internal Satisfactory Recommended Design Sound Levels as defined in AS/NZS 2107 for the following sensitive areas: i Teaching spaces ii Laboratories iii Conference rooms iv Libraries v Music studios v Music studios vi Operating Theatres / Surgeries vii Wards / Recliners vii Wards / Recliners vii Performance spaces / Galleries ix Places of worship 2. If the existing internal background noise level within any of the above areas exceeds the Maximum Recommended Design Sound Level in AS/NZS 2107, then noise from the fixed plant associated with the Melbourne Metro Project must not exceed the existing background levels within these spaces at the commencement of operation. 3. This does not apply to noise generated by trains and/or trams.	Cross Yarra Partnership has implemented an Em Environmental Management Plan. An Operational the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These plans have been re the Independent Environmental Auditor. There are three cooling towers located at level 3 noise sensitive areas (less than 20 metres distar and attenuation has been given to ensure noise of
Noise and Vibration	NV19	 Ground-borne Noise Guideline Targets for Operation Where operational ground-borne noise Guideline Target levels, as shown in the table below (based on NSW EPA Rail Infrastructure Noise Guideline, May 2013), are exceeded for a sensitive land use, assess and implement practicable mitigation to reduce the noise level so that it either meets or achieves noise levels as close as practicable to the Guideline Target. See table in EPR for trigger levels. Notes Specified noise levels refer to noise from heavy or light rail transportation only (not ambient noise from other sources). Assessment location is internal near to the centre of the most affected habitable room. LASmax refers to the maximum noise level not exceeded for 95% of the rail pass-by events. For schools, educational institutions, places of worship the lower value of the range is most applicable where low internal noise levels is expected. 	Cross Yarra Partnership has implemented an Em Environmental Management Plan. An Operationa the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These plans have been re the Independent Environmental Auditor.
Noise and Vibration	NV20	Vibration Guideline Targets for Operation 1. During operation, achieve the following guideline targets (based on Table 1 in BS6472-1:2008) or background levels (whichever is higher) for vibration as follows: See EPR for table Notes (1) The Guideline Targets are non-mandatory; they are goals that should be sought to be achieved through the application of feasible and reasonable mitigation measures. (2) Compliance with these values implies no structural damage due to operation.	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operational the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These plans are reviewed Independent Environmental Auditor.

Environmental Management System and prepared a Construction onal Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental n reviewed by the project's Independent Reviewer and audited by

el 3 (roof level) of the Little La Trobe shaft. Due to proximity of stance), careful attention to cooling tower equipment selection se compliance.

Environmental Management System and prepared a Construction onal Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and controls detailed in the precinct-specific Site Environmental n reviewed by the project's Independent Reviewer and audited by

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Discipline	EPR Ref	Environmental Protection Requirements Construction Noise and Vibration Management Plan	Development Plan Response
Noise and Vibration	NV21	1. Prior to commencement of project works, each Works Package contractor must develop and implement a Construction Noise and Vibration Management Plan (CNVMP) in consultation with EPA Victoria and the relevant councils. The CNVMP must comply with and address Noise and Vibration EPRs, be informed by the modelling undertaken by the acoustic and vibration consultant in accordance with EPR NV3 and must include (but not be	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operation the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These plans have been re the Independent Environmental Auditor.
Noise and Vibration	NV21	B1. Identification of reasonable and practicable measures to be implemented to manage construction noise impacts in accordance with : i EPA Publication 1254 Noise Control Guidelines ii NSW ICNG (excluding Part 5, and Part 7.2.1 which relates to pre-approval documentation relevant to NSW) and TfNSW Construction Noise Strategy (but with Section 7 construction hours as per EPA1254 as shown in EPR NV6).	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operationa the operational phase of the Project. The aspect Vibration Management Plan with site specific co Implementation Plans. These plans have been re the Independent Environmental Auditor.

Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to pect-specific control measures are identified in the Noise and c controls detailed in the precinct-specific Site Environmental en reviewed by the project's Independent Reviewer and audited by

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV21	accordance with the: i Vibration dose values for human comfort specified in EPR NV11 (which may be expressed as peak particle velocity rates for the purposes of the CVNMP).	Cross Yarra Partnership has prepared an Enviror Management Plan and Operational Environment are identified in the Noise and Vibration Manage Implementation Plan. This is reviewed by the pro stakeholder consultation requirements and revie quarterly audits of performance throughout cons
Noise and Vibration	NV21	G1. Details of all community consultation measures to be implemented in accordance with NV5 and SC3 including: i Any precinct-specific community consultation measures; and ii The establishment of measures concerning complaints management. H. Haulage	Cross Yarra Partnership has implemented an En Environmental Management Plan. An Operationa the operational phase of the Project. The aspect Vibration Management Plan and Construction N specific controls are detailed in the precinct-spe will be reviewed by the project's Independent Re

ronmental Management System, Construction Environmental ental Management Plan. The aspect-specific control measures agement Plan with site specific controls in the Site Environmental project's Independent Reviewer. This is subject to separate viewed by the Independent Environmental Auditor, including construction.

Environmental Management System and prepared a Construction onal Environmental Management Plan will be prepared prior to ect-specific control measures are identified in the Noise and a Noise and Vibration Communications Management Plan. Site specific Site Environmental Implementation Plans. These plans Reviewer and audited by the Independent Environmental Auditor.

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Noise and Vibration	NV21	 I. Monitoring II. Mechanisms to ensure effective monitoring of noise and vibration associated with construction in accordance with EPR NV4, including: i Vibration and noise measurement methodologies for monitoring both baseline and construction levels, including details of the parameters to be obtained, the measurement equipment, and relevant standards to be adhered to for the collection and analysis of data iii Baseline and construction noise and vibration monitoring locations iiii The most critical periods, whether determined separating distance or ground conditions, and the duration of monitoring periods iv Specific measures, to be determined following consultation with relevant stakeholders, with respect to sensitive equipment and biological resources (which must, where practicable, include continuous monitoring during construction) v How the results of monitoring would be recorded, reported, and interpreted. J. Unavoidable Work J1. The following Unavoidable Works may need to be undertaken outside of Normal Working Hours: ii The delivery of oversized plant or structures that police or other authorities determine require special arrangements to transport along public roads ii Emergency work to avoid the loss of life or damage to property, or to prevent environmental harm iii Maintenance and repair of public infrastructure where disruption to essential services and/or considerations of works safety do not allow work within standard hours iv Tunnelling works including mined excavation elements and the activities that are required to support tunnelling works (i.e. spoil treatment facilities) v Rail occupations or works that would cause a major traffic hazard vi Works where a proponent demonstrates and justifies a need to operate outside normal working hours such as work that once started cannot practically be stopped until completed such as a concrete pour or construction of dia	Cross Yarra Partnership has implemented an Er Environmental Management Plan. An Operation the operational phase of the Project. The aspec Vibration Management Plan and Construction N specific controls are detailed in the precinct-spe have been reviewed by the project's Independer Auditor.
Noise and Vibration	NV21	J2. Prior approval must be obtained for the above work to be undertaken outside of Normal Working Hours (except for item ii). In all cases management actions would need to be applied as per the Residential Impact Mitigation Guidelines and practicable mitigation measures employed to reduce the impact of the noise. All other works must comply with the Guideline Noise Levels in EPR NV6. J3. For unavoidable work: i Approval for planned unavoidable works can only be granted by the Independent Environmental Auditor ii Details of unavoidable works including the type of work, equipment to be used and duration of works must be made publicly available iiii For emergency unavoidable work, the proponent must provide a rationale to the satisfaction of the Independent Environmental Auditor as soon as practicable.	Cross Yarra Partnership has implemented an Err Environmental Management Plan. An Operation the operational phase of the Project. The aspec Vibration Management Plan and Construction N specific controls are detailed in the precinct-spe have been reviewed by the project's Independer Auditor.
Social and Community	SC1	 Reduce as far as is practicable the disruption to residences from direct acquisition or temporary occupation through measures such as: a) Using a case management approach for all Project interactions with affected landowners b) Appointing a social worker, buyers' advocate or equivalent to assist households with special needs to manage the transition c) Taking into account relative vulnerability and special needs of occupants d) Purchasing properties early when supported by the landowner. 	Disruption to residences from direct acquisition managed by RPV.
Social and Community	SC2	 Prior to commencement of relevant works in areas affected, develop a relocation management framework that responds to the Residential Impact Mitigation Guidelines to ensure a consistent approach across the Project for the voluntary (temporary) relocation of households subject to: Construction activities likely to unduly affect their amenity (e.g. out of hours works or sustained loss of amenity during the day for residences with special circumstances such as shift workers) Loss of access. 	Cross Yarra Partnership has implemented an Er Environmental Management Plan. The aspect-s and Stakeholder Engagement Management Plan Management Framework and Special Events su Independent Reviewer and audited by the Indep
Social and Community	SC3	 Community and Stakeholder Engagement Management Framework (CSEMF) 1. MMRA must develop a Community and Stakeholder Engagement Framework to outline the principles and approach to advising key stakeholders and other potentially affected stakeholders across the Project of the construction activities. a) The CSEMF will cover all stages of work including early works and mains works for all contract works packages. b) The CSEMF will inform the CSEMP prepared by each contract works package. 2. The CSEMF must provide for any interested stakeholder to be able to register their contact details to the Project webpage to ensure they are included and automatically advised of planned construction activities, Project progress, mitigation measures and intended reinstatement measures where applicable. 3. The CSEMF must document a complaints management process in accordance with EPR EMF4. 4. The CSEMF must be approved by the Minister for Planning prior to the commencement of early works. 	The Community and Stakeholder Engagement M implemented where required, during construction Framework has informed the Communications reviewed by the project's Independent Reviewer Environmental Auditor.

Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to bect-specific control measures are identified in the Noise and n Noise and Vibration Communications Management Plan. Site specific Site Environmental Implementation Plans. These plans dent Reviewer and audited by the Independent Environmental Environmental Management System and prepared a Construction ional Environmental Management Plan will be prepared prior to bect-specific control measures are identified in the Noise and n Noise and Vibration Communications Management Plan. Site specific Site Environmental Implementation Plans. These plans dent Reviewer and audited by the Independent Environmental ion or temporary occupation and measures to reduce disruption is Environmental Management System and prepared a Construction t-specific control measures are identified in the Communications Plan including the Business Disruption Plan, Relocation sub-plan. These plans have been reviewed by the project's ependent Environmental Auditor. nt Management Framework has been prepared by RPV and will be ction works. The Community and Stakeholder Management ns and Stakeholder Engagement Management Plan, and has been ver. These plans have also been audited by the Independent



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Social and Community	SC4	 Community and Stakeholder Engagement Management Plan (CSEMP) 1. Prior to the commencement of Project works, each works package contractor must develop and implement a Community and Stakeholder Engagement Management Plan (CSEMP) in accordance with the CSEMF, to engage potentially affected stakeholders individually or through groups such as the Precinct Reference Groups. The CSEMP should advise potentially affected stakeholders of the planned construction activities, Project progress, mitigation measures and intended reinstatement measures where applicable. 2. The CSEMP should integrate all Project activities that potentially impact on community and business operations as well as provide for and direct a well-coordinated communication and engagement process. The plan must include: a) Measures to minimise impacts to the development and/or operation of existing facilities including ensuring replacement power, network or other utility services are provided, if necessary and where practicable, where any disruption to such service is likely. b) Measures for providing advance notice of significant milestones, changed traffic conditions, interruptions to utility services, changed access and parking conditions, periods of predicted high noise and vibration activities. c) Measures for communicating the design of and results from environmental monitoring programs (e.g. vibration, noise, dust, ground movement). d) Process for informing landowners about pre-condition property surveys (as stated in EPRs GM4 and NV5). e) Process for registering, managing and resolving complaints consistent with Australian Standard AS/NSZ 10002:2014 Guidelines for Complaint Management in Organisations. g) Measures to address any other matters which are of concern to potentially affected stakeholders through the construction of the Project. 	Cross Yarra Partnership has prepared a Communications and Stakeholder Engagement Management Plan, including the Business Disruption Plan, Relocation Management Framework and Special Events sub-plan. These plans have been reviewed by the project's Independent Reviewer and audited by the Independent
Social and Community	SC4	 3. The plan must consider each precinct and station location in detail. Stakeholders to be consulted relevant to each precinct and considered in the plan include: a) Local councils b) Land managers c) Potentially affected residents d) Potentially affected businesses e) Recreation, sporting and community groups and facilities f) Royal Melbourne Hospital, Victorian Comprehensive Cancer Centre, Peter Doherty Institute and other health and medical facilities g) The University of Melbourne h) RMIT University i) Melbourne Grammar School j) Other public facilities in proximity. 	Cross Yarra Partnership has prepared a Communications and Stakeholder Engagement Management Plan, including the Business Disruption Plan, Relocation Management Framework and Special Events sub-plan. These plans have been reviewed by the project's Independent Reviewer and audited by the Independent Environmental Auditor.
Social and Community	SC5	1. Prior to commencement of shaft construction, work with the City of Melbourne to identify if there are any suitable areas for use as alternative public open space, incorporating vegetation, and establish for community use during the construction phase to minimise the impacts of loss of the City Square.	This is not located in the CBD North precinct. Refer to the CBD South Precinct Development Plan.
Social and Community	SC6	 Work with relevant local councils to plan for and coordinate with key stakeholders during major public events. This should include, but not be limited to: a) Timely provision of construction schedules to allow for appropriate event planning. b) Timely notification of schedule changes that may impact upon major public events. c) Consideration of appropriate alternative sites and routes for events and parades. 	Cross Yarra Partnership has prepared a Communications and Stakeholder Engagement Management Plan, which include sub-plans, such as Special Events sub-plan. These plans have been reviewed by the project's Independent Reviewer and audited by the Independent Environmental Auditor.
Social and Community	SC7	1. In consultation with the relevant local councils, develop a relocation strategy for sports clubs and other formal users of directly impacted recreational facilities. This strategy should aim to identify available local alternative facilities for formal recreational users displaced from recreational facilities by the Project. This strategy should avoid displacing existing users at alternative facilities and provide adequate notification to clubs to minimise the impact of relocation.	Cross Yarra Partnership has implemented an Environmental Management System and prepared a Construction Environmental Management Plan. The aspect-specific control measures are identified in the Communications t and Stakeholder Engagement Management Plan, which include sub-plans, such as Respite and Relocation Management Framework. These plans will be reviewed by the project's Independent Reviewer. This is subject to separate stakeholder consultation requirements and reviewed by the Independent Environmental Auditor, including quarterly audits of performance throughout construction.



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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Social and Community	SC8	 In consultation with relevant local Councils and key stakeholders, and in accordance with the Melbourne Metro Urban Design Strategy, relevant statutory approvals and other relevant requirements: a) Improve community access to open or recreational space within the CBD by identifying potential opportunities to return as much land as possible used for construction to permanent public open space at City Square and Federation Square b) Re-establish sites impacted by construction works, to be generally in accordance with adopted open space master plans, and conservation management plans (where appropriate), including (but not limited to):	Public open space at CBD North precinct is pres
Social and Community	SC9	1. In consultation with the City of Melbourne, develop a plan to utilise part of the Franklin Street road reserve for public open space post-construction. Plans must be in accordance with the Melbourne Metro Urban Design Strategy.	Franklin Street road reserve for the CBD North p Development Plan.
Social and Community	SC10	1. Prior to commencement of relevant works, provide written notice to adjoining landholders of any works to be carried out in a precinct. Such notice must advise of the works to be undertaken, the duration of those works, what local impacts might occur and contact details for further information.	Cross Yarra Partnership has prepared a Commu These plans have been reviewed by the project's Environmental Auditor.
Social and Community	SC11	1. Prior to commencement of relevant works, establish a Parkville Reference Group comprising an independent chair, relevant government agencies including MMRA, PTV/ DEDJTR (Transport), VicRoads, the Victorian Department of Health and Human Services, Ambulance Victoria, Yarra Trams, and key institutions in the Parkville Precinct as detailed in MMRA Technical Note 044 Parkville Precinct Reference Group (19 August 2016) document number 21 and tabled 22 August 2016.	This is not relevant to CBD North precinct. Refe
Social and Community	SC12	 In addition to EPR SC11, MMRA to establish Precinct Reference Groups as required for all other Project precincts, which collectively provide for representation of interested and relevant stakeholders. These groups should be configured in a way that broadly satisfies the recommendation in the Minister's Assessment and which also allows each Group to function coherently and effectively. Each Precinct Reference Group should have an independent chair. 	RPV has established the CBD North Community development and the Development Plan and co
Surface Water	SW1	 Prior to commencement of relevant works, for all Precincts (with the exception of the western turnback) design permanent and temporary works and, if necessary, develop and implement emergency flood management measures for the tunnels, tunnel portals, access shafts, station entrances and Arden electrical substation to provide appropriate protection against floodwaters and overland stormwater flows. The design of these works must be informed by a flood immunity risk assessment that considers a range of events, and to the requirements and satisfaction of Melbourne Water and/or the relevant council. The flood immunity risk assessment referred to above must address all portal areas (or other flood entry points) for the existing Melbourne Underground Rail Loop, or similar secondary infrastructure items that may allow for flood entry into the Project. 	Flood design and water sensitive urban design Development Plan.
Surface Water	SW2	 For all precincts, to the satisfaction of the responsible waterway management authority: a) Undertake modelling of the design of permanent and temporary works to demonstrate the resultant flood levels and risk profile b) Maintain existing flood plain storage capacity potentially impacted by the Project c) Ensure that permanent and associated temporary construction works do not increase flood levels to result in additional flood risk d) Ensure permanent and associated temporary works do not increase flow velocities that would potentially affect the stability of property, structures or assets, and/or result in erosion during operation or construction e) Undertake stormwater modelling of the design of permanent and temporary works to demonstrate the resultant stormwater quantity and quality response to the Project. for all Precincts adopt WSUD and integrated water management principles in the stormwater design, as required through the Melbourne Metro Urban Design Strategy, and to the requirements of the relevant local council. 	Flood design and water sensitive urban design Development Plan.

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		Partnership	
Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Transport	T1	 Traffic and Transport Working Group 1. MMRA must establish and maintain a Traffic and Transport Working Group (TTWG), working under a terms of reference determined by MMRA, and comprising relevant representatives from MMRA, PTV / DEDJTR (Transport), road management authorities, relevant councils, relevant public transport providers and other relevant agencies as required. 2. The TTWG will be responsible for reviewing and providing feedback on: a) Transport management plans. b) Relevant designs and methodologies for monitoring implementation of transport management plans. c) Transport modelling and proposed transport network upgrades to mitigate the transport effects of constructing the Project. 3. The TTWG must also: a) Invite other key affected stakeholders to present or attend where matters specific to those stakeholders in the relevant precincts are being discussed or addressed, carried out consistent with the Community and Stakeholder Engagement Management Plan/s under EPR SC4; b) Provide feedback to the key affected stakeholders on how their comments or matters of interest or concern are addressed in transport management plans; and c) Advise those key affected stakeholders of potential impacts and proposed traffic and transport mitigations, and consider stakeholders' 	A Traffic and Transport Working Group (TTWG) stakeholders. The TTWG is operating in accord EPR T1.
		responses on these matters in providing feedback on the transport management plans required under EPRs T2 and T3. Transport Management Plans 1. Prior to commencement of relevant works, each Works Package contractor must develop a transport management plan(s) in consultation with the T. Given LT. State and the state and	Cross Yarra Partnership has prepared a Transp Precinct Transport Management Plan and Work
Transport	T2	Traffic and Transport Working Group and implement the plan(s) to minimise disruption to affected local land uses, traffic, car parking, on-road public transport, pedestrian and bicycle movements and existing public facilities during all stages of construction. 2. The transport management plan(s) must be prepared for each precinct, and also be coordinated across the whole Project to provide an overall transport management plan(s) must be informed and supported by an appropriate level of transport modelling, as agreed by the TTWG, and must include, but not be limited, to: a) Management of any temporary or permanent full or partial closure of traffic lanes including (but not limited to): i Childers Street, Tennyson Street and Laurens Street, North Melbourne. iii Royal Parade, Grattan Street, Barry Street and Leicester Street, Parkville. iv Franklin Street, All Street and Little La Trobe Street, at State Library. v Flinders Street, Flinders Lane and Swanston Street, at Town Hall. vi Linithgow Avenue, St Kilda Road, Domain Road, Albert Road, Bowen Crescent and Bowen Lane, at Domain. vii Toorak Road and Park Street, South Yarra. b) A monitoring methodology and a program for monitoring results of the implementation of transport management plans to be reported to the TTWG. If unanticipated adverse effects are further identified, practicable mitigation measures must be developed and implemented. c) Monitoring of: i Travel behaviour changes caused by construction works, including pre-construction baseline data and periodic reporting on behaviour change. Use this data as an input to the design of transport networks following construction period. 4. The transport management plan(s) must be developed recognising other Projects operating concurrently and transient businesses such as bus/walking/cycling tours and aligor transport management plan to ensure all modes of active transport management plan to ensure all modes of active transport management plan to ensure all modes of active treased acrose transport management plan	the project's Independent Reviewer. These plan Auditor.

WG) has been established (by RPV) and includes the listed ordance with the terms of reference determined by RPV and as per

nsport Management Plan (including relevant sub-plans, such as the Vorksite Traffic Management Plans), which have been reviewed by plans have also been audited by the Independent Environmental

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Transport	тз	Road Transport (Construction Phase) 1. Road Network Management: As appropriate, transport management plan(s) must include/address the following issues: a) In consultation with emergency services, develop suitable measures to ensure emergency service access is not inhibited as a result of Melbourne Metro construction worksites. b) Provision for two-way traffic on St Kilda Road through the construction period within the Domain station precinct. c) Domain Road should be kept open from the east up to the existing entrance of Edmund Herring Memorial Oval, with provision for a local turnaround. d) Develop and implement Network Enhancement Projects (NEPs) in consultation with the TTWG for locations including, but not limited, to: i College Crescent, Gatehouse Street, Cemetery Road and other east-west roads in the Parkville Precinct, to accommodate traffic that may use these roads as a result of the Grattan Street closure for Parkville station. ii Kings Way, Canterbury Road and other roads and intersections to accommodate traffic that may use these roads as a result of the St Kilda Road lane reduction for Domain station construction. These NEPs should have the objective of balancing impacts across the transport network and must consider the VicRoads Road Users Hierarchy principles set out in SmartRoads to ensure the needs of vehicle traffic and on-road public transport are appropriately accommodated during disruptions. e) Provision of suitable routes for vehicles to maintain connectivity for road users to JJ Holland Park, South Kensington station, to medical facilities in the Domain Precinct and to the medical and educational facilities adjacent to the Parkville construction work site. <td>Cross Yarra Partnership has prepared a Transp Precinct Transport Management Plan and Work the project's Independent Reviewer. These plan Auditor.</td>	Cross Yarra Partnership has prepared a Transp Precinct Transport Management Plan and Work the project's Independent Reviewer. These plan Auditor.
Transport	T3	Approved truck routes in the Arden precinct must not include the use of Miller Street, North Melbourne. b) Provision of construction vehicle staging areas and/or construction methodologies to minimise the potential impacts of truck call-forward options on residents and businesses. c) Special arrangements for delivery or removal of large loads. 3. Parking: As appropriate, transport management plan(s) must include/address the following issues: a) Provision of alternative parking where possible to replace public and commuter parking lots from West Footscray Station, Childers Street, Laurens Street, Grattan Street, Domain Road, St Kilda Road and Albert Road during construction and preventing parking at undesignated locations on local roads. b) The need to minimise the loss of public parking and replace or reinstate parking at the earliest opportunity. c) Provision of suitable alternative parking and associated facilities to replace private parking and facilities lost or inaccessible during construction for any significant time, in consultation with the relevant stakeholders. The private parking is to be replaced or reinstated at the earliest opportunity. d) A parking management plan prepared in consultation with and approved by the relevant road authority to manage parking in and around the construction zones. The plan must: i Include parking controls to support other relevant EPR requirements. ii Maintain Police Only parking bays in Swanston Street and Flinders Lane to the satisfaction of Victoria Police. iii Minimise impacts on existing users, particularly those with special needs. iv Provide a suitable level of accessibility to loading zones. e) Provision of car parking for construction workers where practicable and in this regard: i Use of off-street car parks for construction workers where practicable and in this regard. i Weas outer suitable level of accessibility to loading zones. e) Provision of car parking for construction workers where practicable, construction workers parking in on-street spaces, unless	the project's Independent Reviewer. These plan Auditor.

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Transport	T4	Public Transport (Construction Phase) 1. Prior to commencement of relevant works, develop and implement a plan for occupying railway land and tracks at the western portal, eastern portal and western turnback that minimises the disruption to railway services during construction. The plan must be developed to the satisfaction of VicTrack, PTV, DEDJTR (transport) and MTM, as relevant. 2. In consultation with the TTWG, provide suitable routes for pedestrians to maintain connectivity where access is altered by the contractor, including DDA access where practicable, for users of South Kensington Station, Melbourne Central Station, Flinders Street Station, new tram and bus stops relocated or constructed during the construction period, and around all construction sites generally. 3. In consultation with the TTWG, investigate and implement intersection modifications where practicable, including public transport priority measures for affected bus and tram routes. 4. Develop and implement measures to minimise disruption to the tram and bus networks resulting from the construction of Melbourne Metro in consultation with the relevant road management authorities, and to the satisfaction of PTV / DEDJTR (Transport), including (but not limited to): a) Options to divert the 401, 402, 403, 505 and 546 bus services. b) Tram routes on La Trobe Street and Swanston Street. c) Tram routes on Flinders Street and Swanston Street. d) Tram operations on Toorak Road West and the diversion of the No. 8 tram route. e) Periodic closures of Royal Parade tram route. f) Tram routes on St Kilda Road. g) Disruption to other tram routes through Domain tram stop. <t< td=""><td>Cross Yarra Partnership has prepared a Transpor Precinct Transport Management Plan and Work the project's Independent Reviewer. This has be with Transport for Victoria, VicTrack, Public Tran Transport and Resources, Metro Trains Melbour have also been audited by the Independent Envi Where rail occupations are identified and requir Trams have agreed on the Base Track Occupati occupations required to support CYP constructi</td></t<>	Cross Yarra Partnership has prepared a Transpor Precinct Transport Management Plan and Work the project's Independent Reviewer. This has be with Transport for Victoria, VicTrack, Public Tran Transport and Resources, Metro Trains Melbour have also been audited by the Independent Envi Where rail occupations are identified and requir Trams have agreed on the Base Track Occupati occupations required to support CYP constructi
Transport	Τ5	Active Transport (Construction Phase) 1. Develop and implement transport management measures in consultation with the TTWG and relevant road management authorities for cyclists and pedestrians to maintain connectivity and reasonable performance levels throughout construction for road and shared path users including (but not limited to): JJ Holland Park, South Kensington station, Laurens Street, Grattan Street, Swanston Street adjacent to Gate 4 at University of Melbourne, Franklin Street (including RMIT facilities), Swanston Street, Flinders Street, St Kilda Road, Domain Road, Domain Parklands, Albert Road, Toorak Road, Fawkner Park, Osborne Street, William Street and Chapel Street. 2. Implement active control and wayfinding information at construction work site access points to maintain safety by avoiding potential conflicts between trucks, pedestrians and cyclists. 3. In consultation with the City of Melbourne, provide a suitable route for pedestrians to maintain connectivity and connection between Domain Road and the diverted number 8 tram on Toorak Road West. 4. In consultation with the City of Melbourne, provide suitable routes for cyclists and pedestrians throughout construction to maintain connectivity for road and shared path users around JJ Holland Park and South Kensington station. 5. In consultation with the City of Stonnington, provide suitable routes for cyclists and pedestrians to maintain connectivity and connection, having regard to the removal of the William Street Bridge and Lovers Walk pedestrian path during the construction to maintain connectivity for road and shared path users around JJ Holland Park and South Kensington station. 5. In consultation with the City of Stonnington, provide suitable routes for cyclists and pedestrians to maintain connectivity and c	Cross Yarra Partnership has prepared a Transpo Precinct Transport Management Plan and Work the project's Independent Reviewer. These plans Auditor.
Transport	T6	Travel Demand Management Strategy 1. Prior to commencement of construction works, MMRA is to develop and implement a Travel Demand Management Strategy and appropriate tools to promote specific transport behaviour changes in response to road, bicycle and pedestrian paths closures/modifications and to reduce traffic congestion around construction sites, particularly in the vicinity of the Parkville and Domain precincts where road closures and restrictions are proposed. The strategy must be consistent with the MMRA Community and Stakeholder Engagement Management Framework (under EPR SC3) and, where practicable, include a mechanism for collecting and disseminating real-time travel time information to the public. Existing traffic and public transport information channels should be used wherever possible. 2. Engage with key stakeholders in the development, implementation and monitoring of the Travel Demand Management Strategy including, but not limited to, councils, road management authorities, PTV and relevant public transport providers, educational facilities, research institutions, businesses, impacted community groups and other affected key stakeholders in each precinct.	Cross Yarra Partnership has implemented an Er Environmental Management Plan. A Travel Dem inform the development of the Transport Manage Transport Management Plan and Worksite Traff project's Independent Reviewer. The Transport I consultation requirements with councils, road m Victoria and relevant public transport providers, impacted community groups. These plans have

sport Management Plan (including relevant sub-plans, such as the orksite Traffic Management Plans), which have been reviewed by been subject to separate stakeholder consultation requirements Transport Victoria, Department of Economic Development, Jobs, ourne and the Traffic and Transport Working Group. These plans invironmental Auditor.

uired to facilitate construction activities, CYP and MTM / Yarra bation Schedule (BTOS). The BTOS record all foreseeable uction activities.

sport Management Plan (including relevant sub-plans, such as the orksite Traffic Management Plans), which have been reviewed by lans have also been audited by the Independent Environmental

A Environmental Management System and prepared a Construction bemand Management Strategy has been developed by RPV and will nagement Plan (including relevant sub-plans, such as the Precinct raffic Management Plans), which have been reviewed by the ort Management Plan has been subject to separate stakeholder d management authorities, Transport for Victoria, Public Transport ers, educational facilities, research institutions, businesses and ave also been reviewed by Independent Environmental Auditor.

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Transport	T7	Road Transport (Operational Phase) 1. Design all roadworks and shared path works to relevant design standards to maintain safety of movement in consultation with the relevant road management authorities and TTWG, as required. Designs should be underpinned by appropriate transport modelling and have an objective to facilitate public transport and minimise carpark loss to the extent practicable. 2. Develop and implement a plan to reinstate car parking on Childers Street, Kensington and Laurens Street, North Melbourne in consultation with the relevant road management authorities that: a) Minimises the permanent loss of parking where possible. b) Ensures re-instated car parking does not encroach on JJ Holland Park. c) Considers opportunities for replacement of any net loss of parking at nearby locations. d) Reduces the risk of overflow parking in local streets from South Kensington station and activities at JJ Holland Park. e) Replaces loading zones to service the needs of the existing businesses in the precinct where disrupted during construction. 3. Develop and implement a plan for the Arden Precinct in consultation with the relevant road management authorities that includes: a) Optimal replacement of car parking spaces along Grattan Street, Parkville in consultation with the relevant road management authorities that includes: a) Optimal replacement of specific short-term and DDA compliant parking. b) Optimal design of the road network around Grattan Street associated with the changed demands and network changes on Grattan Street and Royal Parade / Elizabeth Street. 5. Develop and i	Operational road transport for the CBD North pre
Transport	T7	 b) Regard to the future function of Franklin Street envisaged in the Queen Victoria Market Precinct Renewal Master Plan. 6. Develop and implement a plan for the design of A'Beckett Street, Little La Trobe Street and Swanston Street in consultation with relevant road management authorities that includes: a) Optimising the design of A'Beckett Street and location of station infrastructure. b) Consideration of pedestrian and vehicle movements on Swanston Street between La Trobe and A'Beckett Streets and on Little La Trobe Street. 7. Optimise the design of the reinstated St.Kilda Road and apply the road user hierarchy in consultation with the relevant road management authorities to: a) Reduce delays and congestion b) Maintain safe operations through the precinct. c) Determine the optimal parking provision in the area and replace any lost parking where possible. 8. Where vehicles and pedestrian access are altered during construction ensure that vehicle and pedestrian access is reinstated appropriately in 	Operational road transport for the CBD North pre
Transport	тв	 8. Where vehicles and pedestrian access are altered during construction, ensure that vehicle and pedestrian access is reinstated appropriately, in accordance with relevant road designstandards so adjacent land is not compromised. Public Transport (Operational Phase) 1. Review, with PTV /DEDJTR (Transport), the bus services in the areas around Arden, Parkville, State Library, Town Hall and Domain stations, including a review of the route 401 bus frequency that is expected to have reduced demand following implementation of Melbourne Metro. 2. In consultation with PTV / DEDJTR (Transport), optimise the design of Melbourne Metro stations to ensure integration with existing and planned future uses and so that they will provide connections:	Operational public transport for the CBD North p

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Discipline	EPR Ref	Environmental Protection Requirements	Development Plan Response
Transport	Т9	 Active Transport (Operational phase) 1. Develop and implement a permanent pedestrian footpath and on-road bicycle design for Childers Street, Kensington with the relevant road management authority, relevant local council, and the land manager prior to the removal of the shared use path on the southern side of the street. 2. In cooperation with the relevant road management authority and local council, and where practicable to do so, re-instate on-road bicycle lanes and bicycle parking provisions removed during construction. 3. In consultation with PTV / DEDJTR (Transport) and relevant local councils undertake a study of bicycle parking demands for the new stations. 4. Provide appropriate bicycle parking at each station adopting a flexible design that would allow for future expansion of capacity in consultation with relevant local councils and user groups, if required. 5. Review the reinstatement and provision of safe and effective bicycle lanes and pedestrian access in and around the Melbourne Metro station sites in cooperation with the relevant road management authorities and the relevant local council. 6. Provide wayfinding information to enhance connectivity for pedestrians and public transport users, in consultation with relevant local councils and user groups, including (but not limited to) the following locations: a) Between Melbourne Central Station and State Library Station. b) The underground connection between Flinders Street Station and other transport modes. 7. Consult with the TTWG on active transport, where required. 8. In consultation with the Parkville Reference Group, established under EPR SC11, review future pedestrian movement and conditions at the Parkville 	Operational active transport for the CBD North p
Transport	T10	 Waste collection Prior to commencement of relevant works, develop and implement a plan or plans, in consultation with local councils and private waste collection services, to manage changes to waste collection and waste storage in the areas affected by construction activity. The plan/s should include, but not be limited to: a) Providing for minimal change in waste collection times where the change might affect the capacity of residents to sleep. b) Providing access for existing waste collection services from existing properties considering the extent of the construction areas and road network changes. c) Providing access to alternative waste collection locations for properties during Project construction and operation where existing waste disposal locations are removed or obstructed. d) Design for re-instatement of appropriate access for existing waste services during Project operation. e) Consultation with affected businesses, land owners and residents to be undertaken jointly with local councils to encourage alternative waste management options to be adopted. 	Waste collection for the CBD North precinct is p

th precinct is presented in Section 4.4.8 of the Development Plan.