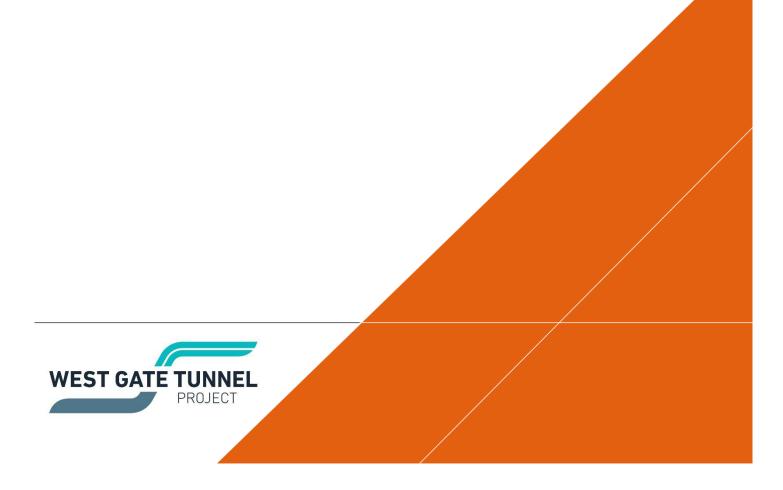




WEST GATE TUNNEL PROJECT

Independent Reviewer and Environmental Auditor Final Report for Submission to the Minister for Planning – September 2021 to February 2022



WEST GATE TUNNEL PROJECT

Independent Reviewer & Environmental Auditor

Final Audit Report for Minister of Planning

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This report has been prepared for the Parties in accordance with the terms and conditions of appointment of the Independent Reviewer and Environmental Auditor and Sub-Independent Reviewer and Environmental Auditor for the West Gate Tunnel Project, dated 30 May 2017. Arcadis Australia Pacific Pty (76 104 485 289) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.



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EXECUTIVE SUMMARY

Introduction

This report summarises the environmental audit findings of the Independent Reviewer and Environmental Auditor (IREA) for the West Gate Tunnel Project (the Project) in Melbourne, Victoria. It covers the sixmonthly audit of the Environmental Management Strategy (the Strategy), quarterly Construction Environmental Management Plan (CEMP) audits, and monthly audits of the Worksite Environmental Management Plans (WEMP) which occurred during the construction period from September 2021 to February 2022.

This is the eighth IREA Minister's Report, which is required to be issued every six months to the Victorian Minister for Planning and made available to the public on the Project website.

Construction on the Project has been underway since March 2018. Recent activities have been concentrated on the widening of the West Gate Freeway, preparation and launch of the tunnel boring machines and substructure works for the various bridges along the eastern and western portion of the Project.

Construction ceased for two weeks from Monday, 20 September 2021 to Monday, 4 October 2021 as per COVID-19 pandemic state of emergency direction. The construction workforce resumed on Tuesday, 5 October 2021 at 25% capacity, with capacity increasing throughout the end of 2021 in accordance with state of emergency directions. The IREA completed all required environmental audits and continued surveillances with the exception of the two week site shutdown. Due to the site shutdown, the September 2021 WEMP Audit was postponed and undertaken in October 2021. The IREA undertook COVIDSafe work practices and protocols in line with prevailing Victorian Government health advice.

Overview of Findings

Overall, Project Co was found to be meeting their obligations under the Strategy. No adverse findings were raised with Project Co during the Strategy audit.

Project Co / D&C Subcontractor is generally compliant with the Environmental Performance Requirements (EPR).

During this reporting period the IREA approved two revised environmental management plans, including the Hazardous Substances Management Plan (HSMP) and Air Quality Management Plan (AQMP).

The IREA's future auditing program will continue to focus on how Project Co and the D&C Subcontractor demonstrate compliance with Project environmental requirements. Project Co and the D&C Subcontractor have continued to provide evidence to close out audit findings with four EPR findings (four opportunities for improvement) and one WEMP finding (one opportunity for improvement) closed out since the previous reporting period.

A summary of the findings raised during this reporting period is below.

Environmental Management Strategy

Project Co is generally meeting their obligations under the Strategy. No adverse findings were raised during this reporting period.

No findings remain open from previous reporting periods.

These findings are detailed further in Section 3.1 of the report.

Environmental Performance Requirements

During the last six-month reporting period the IREA formally audited 49 EPRs. The majority of EPRs audited during the reporting period were deemed compliant. The findings raised consisted of:

- No non-conformances were raised during this audit period.
- Two opportunities for improvement were raised. These related to emissions tracking and ground movement management.
- No observations were raised during this audit period.

Four opportunities for improvement from previous reporting periods were closed. In total there are 15 findings remaining open at the end of this reporting period, comprising of one non-conformance and 14 opportunities for improvement. The IREA will continue to work with Project Co/D&C Subcontractor to close out any outstanding findings.

A full list of EPR findings raised and the status of previous findings is detailed in Section 3.2. Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Construction Environmental Management Plan

The last six-month reporting period focused on auditing a range of CEMP elements and subplans.

The CEMP audit findings for the November 2021 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Five observations were raised.

The CEMP audit findings for the February 2022 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Two observations were also raised.

No findings from previous reporting periods were closed during this reporting period. In total there are 14 findings remaining open at the end of this reporting period, comprising of 14 opportunities for improvement. The IREA will continue to work with Project Co / D&C Subcontractor to close out any outstanding findings.

Details of the CEMP findings are listed in Section 3.3.

Worksite Environment Management Plans

During the reporting period six WEMP audits were conducted. A total of nine findings were raised in this reporting period. These consisted of:

- No non-conformances.
- Four opportunities for improvement.
- Five observations.

The D&C Subcontractor has improved their system processes and environmental management on site, resulting in the reduction of new audit findings from 14 findings in the previous reporting period to nine during this reporting period. One opportunity for improvement was closed during this reporting period. In total there are 20 WEMP audit findings remaining open, comprising one non-conformance and 19 opportunities for improvement. All findings raised between March 2018 and October 2019 were closed.

The WEMP findings are further detailed in Section 3.4.

Conclusions

The findings arising from the reporting period by the IREA have not identified any immediate significant or material risks to the environment.

Implementation of the EPRs was found to be generally compliant, with two opportunities for improvement during the reporting period.

Audit findings during the period relate to a range of matters, mostly specific to on-site matters, including:

- Energy and materials tracking to determine project emissions.
- Post-construction ground movement monitoring program, which has yet to be developed and implemented.
- Noise management, including administrative documentation in the West Zone.

West Gate Tunnel Project

- Tree protection in the West zone.
- General site maintenance in the Tunnel Zone.

Progress in closing out audit findings has remained steady. The IREA encourages continued efforts by Project Co and the D&C Subcontractor to close out remaining open audit findings.

GLOSSARY OF TERMS & ABBREVIATIONS

| BIP Business Improvement Plan BOM Bureau of Meteorology CPBJH Design and Construction Subcontractor (D&C subcontractor) CEMP Construction Environmental Management Plan CNVMP Construction Noise and Vibration Management Plan CD Certified Design CHMP Cultural Heritage Management Plan CSM Conceptual Site Model EES Environment Effects Statement EMF Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Strategy EPA Environmental Management Strategy EPA Environmental Performance Requirements FFMP Flora and Fauna Management Plan GHG Greenhouse Gas GMMP Ground Movement Management Plan HMP Heritage Management Plan HMP Heritage Management Plan HSMP Hazardous Substances Management Plan HPAMP Historic Places and Archaeological Management Plan IREA Independent Reviewer and Environmental Auditor ISCA Infrastructure Sustainability Council Australia LMP Lighting Management Levels NYMS North Yarra Main Sewer PPP Public Private Partnership PSA Planning Scheme Amendment PSR Project Scope & Requirements (Project Agreement or Contract) SAOPs Sampling Analysis and Quality Plans SEPP State Environment Protection Policy SSMP Soil and Spoil Management Plan Worth PMTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) WMP Water Management Plan | AOMB | Air Quality Management Plan | |
|---|-----------|---|--|
| BOM Bureau of Meteorology CPBJH Design and Construction Subcontractor (D&C Subcontractor) CEMP Construction Environmental Management Plan CNVMP Construction Noise and Vibration Management Plan CD Certified Design CHMP Cultural Heritage Management Plan CSM Conceptual Site Model EES Environment Effects Statement EMF Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Strategy EPA Environmental Management Strategy EPA Environmental Performance Requirements FFMP Flora and Fauna Management Plan GHG Greenhouse Gas GMMP Ground Movement Management Plan HHPM Heritage Management Plan HHSMP Heritage Management Plan HHSMP Historic Places and Archaeological Management Plan IREA Independent Reviewer and Environmental Auditor ISCA Infrastructure Sustainability Council Australia LMP Lighting Management Levels NYMS North Yarra Main Sewer PPP Public Private Partnership PSA Planning Scheme Amendment PSR Project Scope & Requirements (Project Agreement or Contract) SAQPs Sampling Analysis and Quality Plans SEPP State Environment Management Plan Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | AQMP | Air Quality Management Plan | |
| CPBJH Design and Construction Subcontractor (D&C Subcontractor) CEMP Construction Environmental Management Plan CNVMP Construction Noise and Vibration Management Plan CD Certified Design CHMP Cultural Heritage Management Plan CSM Conceptual Site Model EES Environmental Management Framework EMF Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Strategy EPA Environmental Performance Requirements FFMP Flora and Fauna Management Plan GHG Greenhouse Gas GMMP Ground Movement Management Plan HMP Heritage Management Plan HMP Heritage Management Plan HMP Heritage Management Plan HMP Historic Places and Archaeological Management Plan IREA Inferstructure Sustainability Cuncil Australia LMP Lighting Management Plan NML Noise Management Plan NML Noise Management Plan NML Noise Management Plan NML Noise Management Plan PSA Planning Scheme Amendment PSR Ploject Scope & Requirements PSR Project Scope & Requirements SCAPS Sampling Analysis and Quality Plans SEPP State Environment Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | | · | |
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| CNVMP Construction Noise and Vibration Management Plan CD Certified Design CHMP Cultural Heritage Management Plan CSM Conceptual Site Model EES Environment Effects Statement EMF Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Strategy EPA Environmental Protection Authority EPR Environmental Performance Requirements FFMP Flora and Fauna Management Plan GHG Greenhouse Gas GMMP Groundwater Management Plan HMP Heritage Management Plan HMP Heritage Management Plan HBMP Hazardous Substances Management Plan HPAMP Historic Places and Archaeological Management Plan IREA Independent Reviewer and Environmental Auditor ISCA Infrastructure Sustainability Council Australia LMP Lighting Management Plan JASANZ Joint Accreditation System of Australia and New Zealand NML Noise Management Levels NYMS North Yarra Main Sewer PPP Public Private Partnership PSA Planning Scheme Amendment PSR Project Scope & Requirements (Project Agreement or Contract) SAQPs Sampling Analysis and Quality Plans SEPP State Environment Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | | , , , | |
| CD Certified Design CHMP Cultural Heritage Management Plan CSM Conceptual Site Model EES Environment Effects Statement EMF Environmental Management Framework EMP Energy Management Plan EMS Environmental Management Strategy EPA Environmental Protection Authority EPR Environmental Performance Requirements FFMP Flora and Fauna Management Plan GHG Greenhouse Gas GMMP Ground Movement Management Plan HMP Heritage Management Plan HMP Heritage Management Plan HSMP Hazardous Substances Management Plan HPAMP Historic Places and Archaeological Management Plan IREA Independent Reviewer and Environmental Auditor ISCA Infrastructure Sustainability Council Australia LMP Lighting Management Plan JASANZ Joint Accreditation System of Australia and New Zealand NML Noise Management Levels NYMS North Yarra Main Sewer PPP Public Private Partnership PSA Planning Scheme Armendment PSR Project Scope & Requirements (Project Agreement or Contract) SAQPs Sampling Analysis and Quality Plans SEPP State Environment Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | | Construction Environmental Management Plan | |
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| PPP Public Private Partnership PSA Planning Scheme Amendment PSR Project Scope & Requirements (Project Agreement or Contract) SAQPS Sampling Analysis and Quality Plans SEPP State Environment Protection Policy SSMP Soil and Spoil Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | NML | Noise Management Levels | |
| PSA Planning Scheme Amendment PSR Project Scope & Requirements (Project Agreement or Contract) SAQPS Sampling Analysis and Quality Plans SEPP State Environment Protection Policy SSMP Soil and Spoil Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | NYMS | North Yarra Main Sewer | |
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| SAQPs Sampling Analysis and Quality Plans SEPP State Environment Protection Policy SSMP Soil and Spoil Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | PSA | Planning Scheme Amendment | |
| SEPP State Environment Protection Policy SSMP Soil and Spoil Management Plan TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | PSR | Project Scope & Requirements (Project Agreement or Contract) | |
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| TBM Tunnel boring machine WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | SEPP | State Environment Protection Policy | |
| WEMP Worksite Environment Management Plan WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | SSMP | Soil and Spoil Management Plan | |
| WGTP MTIA West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | ТВМ | Tunnel boring machine | |
| | WEMP | Worksite Environment Management Plan | |
| WMP Water Management Plan | WGTP MTIA | West Gate Tunnel Project Major Transport Infrastructure Authority (the State) | |
| | WMP | Water Management Plan | |

West Gate Tunnel Project

| WstMP | Waste Management Plan | | WstMP |
|-------|-----------------------|--|-------|
|-------|-----------------------|--|-------|

1 INTRODUCTION

1.1 Purpose of this Report

This report summarises the Independent Reviewer and Environmental Auditor (IREA) audit findings from the eighth six-month period of construction of the West Gate Tunnel Project (the Project) in Melbourne, Victoria.

The IREA has been jointly appointed by West Gate Tunnel Project, Major Transport Infrastructure Authority (WGTP MTIA) and Transurban WGT Co Pty (Project Co) to provide independent oversight of design engineering, construction, program and environmental performance of the Project. The IREA undertakes audits, review of documentation and site surveillance of Project activities to assess whether conformance with Project requirements is being achieved. This includes the Environmental Performance Requirements (EPR) issued by the Minister for Planning in December 2017.

During the reporting period the IREA audited Project Co (responsible for delivering the Project and future operator of the road) to determine conformance with the Environmental Management Strategy (the Strategy). Similarly, the IREA has audited the CPB John Holland Joint Venture (D&C Subcontractor) to determine conformance with the Construction Environmental Management Plan (CEMP), EPRs, and Worksite Environment Management Plans (WEMP).

Prior to starting construction, the IREA reviewed the Strategy and approved the CEMP (and associated subplans). The WEMPs are approved by Project Co. The audits considered in this report are identified under the Project's EPRs (specifically EMP3) required by the Project's Planning Scheme Amendment (PSA) (GC93) and the Project Agreement between the State of Victoria (represented by WGTP MTIA) and Project Co.

The IREA is required to provide a six monthly "audit report" for submission to the Minister for Planning which must be made available to the public (this report).

1.2 Project Background

1.2.1 West Gate Tunnel Project

On 11 December 2017, the Victorian State Government (the State), as part of a Public Private Partnership (PPP), entered into contracts with Project Co for the construction and operation of the Project.

Project Co is responsible for the design, partial financing, construction, tolling, operation and maintenance of the Project. Project Co has ultimate responsibility to the State for delivering the Project to the requirements in the contract and for ensuring the D&C Subcontractor fulfils their obligations including the EPRs.

The D&C Subcontractor has been contracted to complete the detailed design and construction of the Project.

The WGTP MTIA is an administrative office established to manage the delivery of the Project in accordance with the contracts on behalf of the State Government. The Project has three components:

- West Gate Freeway upgrade and widening works between the M80 Ring Road interchange and Princes Freeway to the southern portals of the tunnels, including connections to Grieve Parade, Millers Road, Williamstown Road, Hyde Street, and the West Gate Bridge.
- 2. Twin tunnels two tunnels, one inbound and one outbound, under Yarraville catering for three lanes between the southern and northern portals and connecting to the new bridge over the Maribyrnong River. The outbound tunnel will be approximately 4.0 kilometres long and the inbound tunnel will be approximately 2.8 kilometres long. A tunnel ventilation structure will be located at each exit portal.
- 3. Port, CityLink, and city connections connects from the northern tunnel portal to the central city and includes the Maribyrnong River crossing, connections to the Port of Melbourne, elevated roads along Footscray Road, and connections to CityLink and the north west of the central city. Connections are also provided to both sides of the Port of Melbourne via MacKenzie Road and Appleton Dock Road. A widened Wurundjeri Way is connected to Dynon Road.

Early (preparatory) works started in December 2017 in preparation for construction. This included for instance, low environmental impact works such as completion of environmental surveys and investigations required prior to construction start. The Project started full construction in March 2018 on approval of the CEMP. Details on the construction progress over the audit period are described in Section 2.3.1

A publicly accessible Project Information Centre located on Whitehall Street in Yarraville (known as the Pivot site) is usually open to the public. However, during the reporting period the centre was closed to the public at the start of the reporting period to February 2022, in line with the Major Transport Infrastructure Authority coronavirus communications principles, which required the closing of all info hubs. There are a number of ways the public can engage with the Project, including:

- Visiting the Project website at http://westgatetunnelproject.vic.gov.au/
- Sending the Project a private message on Facebook Messenger
- Contacting the Project call centre on 1800 105 105 or email info@wgta.vic.gov.au.

1.2.2 Planning and Environment Approvals

The Project was declared 'public works' under the *Environment Effects Act 1978* in December 2015, requiring the preparation of an Environment Effects Statement (EES) to inform the Minister for Planning's assessment of the environmental effects of the Project. The EES was publicly exhibited in late May 2017 and public hearings undertaken between mid-August and late September 2017. The Minister for Planning publicly released his Assessment on 27 November 2017 to complete the EES process – concluding that the Project would deliver substantial transport and related benefits.

Three key (primary) approvals have been granted for the Project under Victorian legislation, including:

- Planning Scheme Amendment (PSA) and Incorporated Document issued by the Victorian Minister for Planning requires the project to be constructed and operated according to the Minister's requirements. The Minister approved the project under PSA GC65 on 7 December 2017. This PSA was revoked by Parliament on 7 March 2018 and remade with PSA GC93 on 8 March 2018. The PSA has been incorporated into six separate local Planning Schemes: Brimbank, Hobsons Bay, Maribyrnong, (City of) Melbourne, Port of Melbourne and Wyndham.
- Works Approval issued by the Victorian Environment Protection Authority (EPA) for design and construction of the tunnel ventilation structures.
- Cultural Heritage Management Plan (CHMP) 14562 issued by Aboriginal Victoria for works potentially
 affecting known and potential areas of Aboriginal Cultural Heritage Significance. CHMP 14562 amended
 on 4 April 2018 and 28 February 2020.

These approvals include a range of obligations and conditions, including the PSA which requires the Project to be carried out in accordance with the approved "West Gate Tunnel Project Environmental Performance Requirements, December 2017". The EPRs define the project-wide environmental outcomes that must be achieved during design, construction and operation of the Project (refer Appendix A for a summary list of these EPRs and the Project website for a full version -

http://westgatetunnelproject.vic.gov.au/about/keytopics/planning-approvals).

The Environmental Management EPRs set out the following requirements:

- EPR EMP1 requires the preparation of an Environmental Management Strategy (the Strategy) to provide an overarching framework to address environmental requirements including relevant environmental laws, key approvals, approval conditions and the EPRs.
- EPR EMP2 requires the preparation and implementation of a CEMP, Worksite Environmental Management Plan (WEMP), Operational Environmental Management Plan (OEMP) and other plans as required by the EPRs in accordance with the Strategy.
- EPR EMP3 requires the appointment of an Independent Reviewer and Environmental Auditor (the IREA)
 to ensure compliance with the Strategy and EPRs and conduct compliance audits of the approved
 Strategy, CEMP and WEMPs. The WGTP MTIA must forward the audit reports to the Minister for
 Planning and other approval agencies as appropriate.

The EPRs set standards for the Project and are put in place to mitigate any adverse local effects of the Project on people and the environment. The EPRs have been incorporated into the Project Agreement between the State and Project Co and are included in the subcontract between Project Co and the D&C Subcontractor.

On 1 July 2021, the new *Environment Protection Act 2017* came into force. The "Compliance Code for Victoria's Big Build Projects" (EPA Publication 1998, June 2021) applies to the Project and provides practical guidance on how to comply with specific duties and obligations under the *Environment Protection Act 2017* and *Environment Protection Regulations 2021*.

The relationship between the various Project parties and key planning and environment documents, including the Strategy, are summarised in Figure 1 below. This diagram shows the role of the Minister for Planning and other regulatory authorities in issuing approvals for the Project while continuing their role as regulator (blue boxes). These requirements, which include regulatory approvals and EPRs, are then incorporated into a series of Project Agreements (contracts) between WGTP MTIA (representing the State of Victoria), Project Co, and the D&C Subcontractor. Project Co delegate the direct responsibility for delivering these environmental requirements to the D&C Subcontractor via the Strategy.

The Strategy lists the Project environmental requirements and minimum requirements for both Project Co and the D&C Subcontractor. In the case of the D&C Subcontractor, this includes the requirements to develop environmental documentation such as a CEMP which outlines how environmental requirements will be met during design and construction, and WEMPs, which are used on the construction site as a practical guide to manage environmental issues. The D&C Subcontractor is also required to maintain an Environmental Management System that complies with the international standard ISO14001 Environmental Management Systems. This requires the D&C Subcontractor to develop and maintain various management systems, procedures and processes that facilitate continual improvements in environmental management.

The responsibility of WGTP MTIA, Project Co and the D&C Subcontractor for delivery of the environmental management framework is summarised in Figure 2. The figure also shows how environmental requirements are incorporated into design and construction documentation. Project Co is responsible for the preparation and implementation of the Strategy in accordance with EPR EMP1. The obligation for the preparation and implementation of the CEMP (including subplans), WEMP and any other project plans required to achieve the EPRs is the responsibility of the D&C Subcontractor. Design and construction documentation is prepared by the D&C Subcontractor in accordance with relevant environmental requirements and EPRs.

Construction on the Project commenced in March 2018 following the approval of the Strategy by the Minister for Planning and the CEMP (and subplans) by the IREA and WGTP MTIA. Further information on the Strategy, CEMP, WEMP, and the audit and review processes is provided in the following sections.

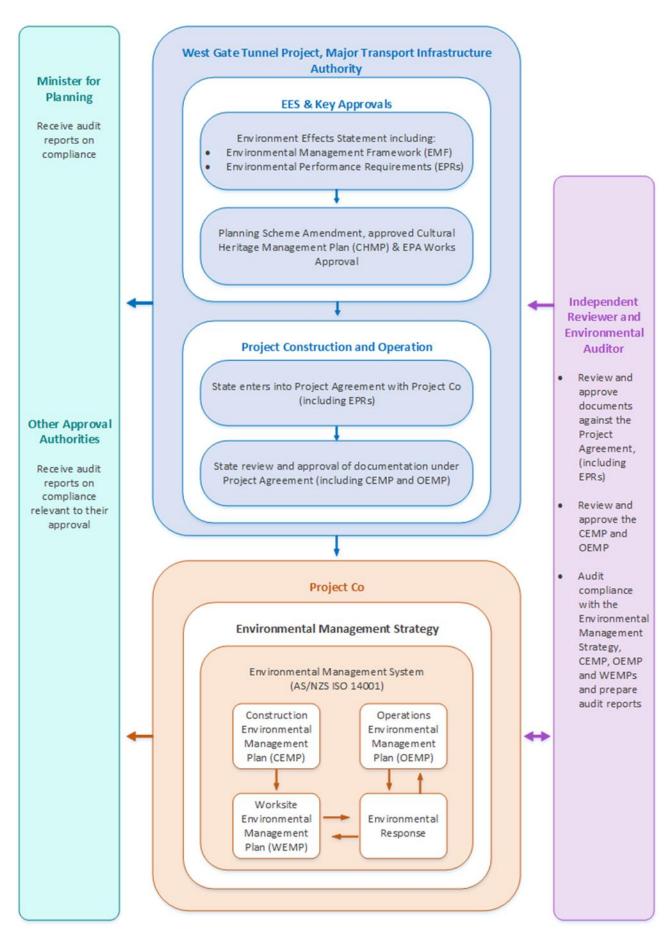


Figure 1 – Governance Framework for the Project Environmental Management Strategy (adapted from Strategy 2018)

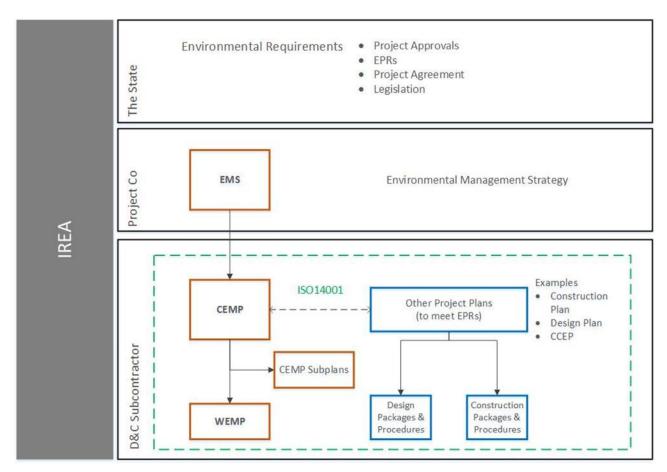


Figure 2 – Relationship between environmental management framework and Project design and construction documentation

1.2.3 Environmental Management Strategy

The Strategy provides an overarching framework to address all environmental requirements and manage environmental outcomes for the Project. Project Co is responsible for ensuring compliance with the Strategy which sets out the framework for delivering and complying with the EPRs, CEMP and other environmental requirements.

The Strategy was developed in early 2018, finalised on 31 January 2018, and approved by the Minister for Planning on 20 February 2018 (under PSA GC65). It was prepared in consultation with councils and other key stakeholders and reviewed by the IREA. PSA GC65 was revoked by the Parliament of Victoria on 7 March 2018, a new PSA (PSA GC93) was approved by the Minister for Planning, including re-approval of the Strategy by the Minister for Planning on 8 March 2018 in exactly the same form.

The Strategy outlines the Project's overall Environmental Management System, including responsibilities shared by the WGTP MTIA, Project Co, and the D&C Subcontractor. The Strategy is consistent with the Australian Standard for Environmental Management Systems (AS/NZ ISO 14001), which includes, but is not limited to project legal requirements, environmental management documents, roles and responsibilities, communication requirements, reporting, auditing, and processes for evaluating compliance. It is designed to provide an overarching framework to address the EPRs, which are largely delegated to the D&C Subcontractor to deliver (via the CEMP and Design Management Plans).

1.2.4 Construction Environmental Management Plan

The D&C Subcontractor's CEMP and subplans were developed in March 2018 and approved by the IREA and WGTP MTIA for implementation. The CEMP outlines how the D&C Subcontractor will achieve the environmental requirements for the construction phase of the Project. This includes requirements outlined under the legislation (including permits and approvals), the Project EPRs, and requirements set out under

the Project Agreement. The CEMP includes control measures for implementation during construction in order to manage, minimise or avoid environmental impacts in carrying out construction activities. The following subplans have also been developed to manage environmental risk associated with D&C Subcontractor activities and to address the requirements of EPRs:

Table 1 – Status of CEMP and subplans1

| Plan | Update status |
|---|-----------------------|
| Construction Environmental Management Plan Rev 10 – 11 December 2019 | Rev 15 - under review |
| Water Management Plan Rev 10 – 22 October 2019 | Rev 11 - under review |
| Flora and Fauna Management Plan Rev 17 – 31 May 2021 | current |
| Construction Noise and Vibration Management Plan Rev 10 – 15 January 2020 | Rev 11 - under review |
| Groundwater Management Plan Rev 11 – 20 February 2020 | Rev 15 - under review |
| Heritage Management Plan Rev 9 – 4 February 2021 | Rev 10 - under review |
| Waste Management Plan Rev 11 – 31 March 2020 | Rev 12 - under review |
| Energy Management Plan Rev 12 – 4 February 2021 | Rev 14 - under review |
| Hazardous Substances Management Plan Rev 11 – 20 October 2021 | current |
| Lighting Management Plan Rev 12 – 4 February 2021 | Rev 13 - under review |
| Soil and Spoil Management Plan Rev 12 – 4 August 2020 | Rev 13 - under review |
| Air Quality Management Plan Rev 13 – 15 October 2021 | current |
| Ground Movement Management Plan Rev 9 – 8 July 2020 | current |
| Tree Management Plan * | Rev E – under review |

^{*} Tree Management Plan was previously an appendix of the Flora and Fauna Management Plan (Revision 8)

These sub plans do not address the entire scope of all EPRs for the Project. The CEMP makes reference to a suite of other management plans which are required to demonstrate how these and other EPRs will be complied with e.g. Interface Management Plan, Business Involvement Plan, Design Management Plan, Construction Management Plan, Communications and Community Engagement Plan (CCEP), Construction Communications and Community Engagement Plan (CCCEP). The CEMP (and auditing process) is the main framework document used to audit conformance with the Project EPRs (noting it delegates these requirements to other parts of the D&C Subcontractor Management Systems).

1.2.5 Worksite Environmental Management Plans

The D&C Subcontractor's WEMPs are prepared in order to manage discrete construction stages or work packages (by type) that may have an adverse impact on the environment. The WEMPs are subsidiary to the CEMP and are implemented at specific worksites to minimise potential impacts of construction activities on the environment and community. Each WEMP will include a map showing the location and scope of works to be managed and include environmental management measures (controls) required to be implemented. The

¹ Subplan revisions listed in left column are the latest approved revisions by the IREA and the State.

WEMPs are for use by site personnel, consultants, and subcontractors, and a copy of the relevant WEMP is to be displayed at each site compound. Some EPRs require engagement with regulators (including Councils) where it is considered appropriate e.g. when Council land is affected.

1.3 Role of the IREA

The IREA was jointly appointed by WGTP MTIA and Project Co on 30 May 2017 to provide independent oversight of design engineering, construction, and environmental performance of the Project. The IREA undertakes audits and surveillance of Project activities to assess whether compliance with the Project Documents is being achieved. This includes EPR EMP3 which requires the IREA to complete environmental audits of conformance with the approved Strategy (six-monthly), CEMP (quarterly) and WEMPs (monthly).

The IREA started work on the Project in late 2017, through review of design and construction packages associated with "early works" (limited to low impact investigations and site set up), site surveillance of early works, and reviews of draft environmental management documentation.

Following Financial Close and the issuing of key approvals, the IREA and WGTP MTIA approved the CEMP (including subplans) prior to construction starting in March 2018. The IREA and WGTP MTIA are also responsible for reviewing subsequent revisions of the CEMP and subplans.

With construction well underway, the IREA is responsible for undertaking a number of activities, described in the following sections.

1.3.1 Regular Site Inspections / Surveillance

The IREA undertakes regular inspections of the construction site (at least daily). IREA representatives are based on site in each of the three construction zones – tunnels, east, and west. The surveillance process is not the same as a formal audit as it may only address (in one inspection) part of an EPR. This information is made available to the D&C Subcontractor and summarised in monthly reports by the IREA. This surveillance assists the IREA in identifying key issues and risks which is used to inform future surveillance and auditing effort. These inspections are designated by "CS" in Appendix A, which summarises the activities that the IREA has undertaken over the last six months in relation to checking compliance with the EPRs. This shows that while not every EPR is formally "audited" by the IREA every day, it is subject to regular surveillance.

1.3.2 Design and Construction Documentation Review

The IREA reviews all design and construction packages (designated "DR" and "CR" in Appendix A). This includes, but is not limited to, reviews of documents such as design drawings, technical information packages, design packages (outlining the basis of design), construction packages, and construction procedures. These documents are reviewed by one or more representatives of the IREA considered a specialist in their field e.g. hydrogeologist, bridge engineer, ecologist. The IREA reviews these documents against all Project environmental requirements. These reviews are sent to all Project parties for consideration and action (by the D&C Subcontractor). The IREA is required to certify design packages which means that these are not signed off until the environmental requirements are addressed. Construction packages are reviewed by the IREA and checked for compliance on site during site surveillance (refer Section 1.3.1). The outcomes of these reviews do not represent a formal audit but can provide (in part or in full) inputs into the quarterly CEMP audit which is the formal mechanism for auditing and reporting on EPR conformance.

1.3.3 Management Plan Review

The IREA is responsible for reviewing and/or approving management plans and documentation (designated "MP" in Appendix A). In approving the CEMP and subplans required prior to construction start (in March 2018), the IREA has checked compliance with the EPR linked to these CEMP subplans. Though not a formal audit, these reviews are documented in the EPR compliance table in Appendix A as they go some way to demonstrating conformance. The IREA has also reviewed a number of other plans that do not necessarily need to be included in the CEMP but remain a requirement of the EPR, such as the CCEP. The review process for these plans is similar to the process used for design and construction packages, whereby the

IREA's comments are documented and the D&C Subcontractor is obliged to address these in subsequent revisions of the plan before it is issued for use.

Revised versions of the CEMP and subplans were reissued to all project parties in this audit period and the previous auditing period for review and approval. The CEMP and subplans have been approved by the project parties (refer Table 1).

EPR EMP3 requires formal auditing of the Strategy, the CEMP, and WEMPs (refer Section 2 for further detail on the conduct and scope of auditing). Audits of the CEMP and EPRs are undertaken every quarter (identified under the "Audit" columns in Appendix A). The IREA's indicative 12-month EPR audit schedule is included in Appendix A. Through this program all applicable EPRs are audited at least once over a twelvementh period via the quarterly CEMP audits.

1.3.4 Minister's Report

The IREA in its role as independent auditor is responsible for preparing a summary audit report which, WGTP MTIA must forward to the Minister for Planning during construction and other approval authorities as appropriate. This audit report draws from audits undertaken over a six-month period, in this case the (seventh) six months of construction between September 2021 – February 2022. The formal audits described in this Minister's Report have been undertaken by the IREA Lead Environment Auditor, Hilary Chapman and Assistant Environment Auditors, Ryan MacManus, Caroline Funnell and Camille Boxall. The Lead Auditor was supported by a team of specialists listed in Appendix B.

1.4 Report Structure

This report is divided into the following sections:

- Section 2: Conduct of Audits details the scope of the IREA's audit activities undertaken prior to, during and after the audit.
- Section 3: Audit findings provides the IREA's findings from audits of the Strategy, CEMP and WEMPs.
- Section 4: Audit Conclusion –on the D&C Subcontractor's conformance with the requirements of the Strategy, CEMP and WEMPs.
- Appendices
 - Appendix A EPR Auditing Status
 - Appendix B IREA Specialist Team
 - Appendix C Limitations.

2 CONDUCT OF AUDITS

2.1 Audit Objectives

The objective of the audits summarised in this report is to assess conformance with the current Strategy, the CEMP, and the WEMPs based on the requirement of EPR EMP3. This includes conformance with the primary approvals (refer Section 1.2.2 above). The objective of these audits is to sample compliance with requirements over the period of September 2021 to February 2022 (inclusive).

2.2 IREA Auditing Process

Figure 3 below details the key steps of the IREA environmental auditing process.

Construction ceased for two weeks from Monday, 20 September 2021 to Monday, 4 October 2021 as per COVID-19 pandemic state of emergency direction. Due to the site shutdown, the September 2021 WEMP Audit was postponed and undertaken in October 2021. The IREA undertook COVIDSafe work practices and protocols in line with prevailing Victorian Government health advice.

2.3 Audit Scope

The IREA determines the scope of these audits, which changes based on which Project issues, activities and environmental risks are considered to be significant at the time of audit. Considerations may include:

- Implementation of the CEMP and associated management system and tools.
- Analyses of environmental monitoring results, focusing on groundwater, noise, vibration, surface water, and air quality.
- Environmental risks relating to current construction activities.
- Concerns of the community.
- Compliance status of EPRs.

The IREA reviews a sample of environmental requirements (and evidence of compliance) over the auditing period. It is not feasible or necessary to fully audit all requirements in a six-month period (there are thousands of requirements e.g. legislation, EPRs, contract, CEMP, subplans). For example, the IREA excludes requirements, such as operational EPRs, which are not part of the current scope of work.

It should be noted that while all environmental requirements are not formally audited over a six-month period, the IREA is required to "check" compliance with environmental requirements through activities such as formal review of documentation and inspection of the construction site (refer Section 1.3). This means that a much larger set of requirements relevant to the Project period will be checked by the IREA for compliance during this period.

In this six-month reporting period, 49 of the 117 EPRs were audited by the IREA. 45 EPRs were audited during the previous reporting period (September 2020 – February 2021), bringing the total EPRs audited for this 12-month period to 94 (refer Appendix A). The remaining EPRs not audited include:

- Six operational EPRs that are not relevant to construction.
- · Five EPRs that have been met and deemed closed.
- Four EPRs relating to blasting and ground-borne activities, which are currently outside of the Project's scope.
- Eight EPRs relating to complete design components, which are being monitored by the IREA through other established processes, rather than explicit auditing.

The environmental requirements audited and checked by the IREA during this 12-month period are summarised below and shown in Appendix A.

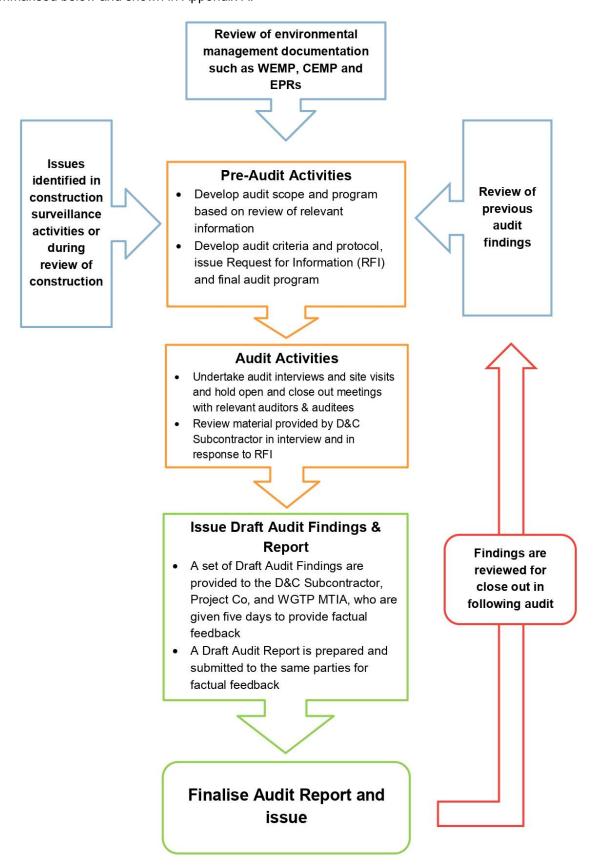


Figure 3 - Overview of environmental audit process

A summary of the scope of the audits conducted by the IREA is provided in Table 2 below. Table 2 – Summary of Audits Conducted During Reporting Period – September 2021 to February 2022

| Audit Type | Date | Scope |
|----------------|-------------------------------------|---|
| Strategy Audit | February 2022 | Strategy (revision 6) dated 31 January 2018 and the legislation, approvals, consents, guidelines and standards relevant to its implementation. |
| | November 2021 & February 2022 | Elements 2, 4, 5, 6, 7, 9, 10 and 11 of the CEMP. Revision 10 (dated 11 December 2019) of the CEMP were audited in the November 2021 and February 2022 audits. |
| CEMP Audit | | Relevant documentation including relevant D&C Subcontractor management plans and subplans such as the Business Involvement Plan, Flora and Fauna Management Plan, Heritage Management Plan, Landscaping Management Plan, Lighting Management Plan and Waste Management Plan were also audited. A full overview of CEMP documentation audited during this reporting period is provided in Section 3.3. |
| | | A selection of EPRs relevant to the current stage of design and construction (as defined in Appendix A). Overview of EPR documentation audited during this reporting period is provided in Section 3.2. |
| | September 2021 Tunnels Zone | Site audit at Pivot Site and North Portal. |
| | October 2021 East Zone | Site audit at Main Viaduct along Footscray Road. |
| WEMP Audit | November 2021 West Zone | Site audit at Newport Rail Bridge and West Gate Freeway Outbound. |
| | December 2021 Tunnels Zone | Site audit at South Portal Outbound. |
| | January 2022 East Zone | Site audit at Bridge 82. |
| | February 2022 West Zone | Site audit at West Gate Freeway Reconstruction. |

The IREA's view on conformance was informed by interviews with staff from the D&C Subcontractor, and review of relevant systems, tools and documentation developed and implemented. The IREA has reported on findings raised between 1 September 2021 and 28 February 2022, and on findings closed between 1 October 2021 and 31 March 2022. Findings closed between 1 and 30 September 2021 have been included in the previous reporting period (March 2021 – August 2021).

2.3.1 Design and Construction Activities – September 2021 to February 2022

Construction activities continue across the Project. Recent key activities include:

- West
 - The Spring and Summer campaigns were completed, focusing on utilities relocation, earthworks and pavement works, drainage works, installation of road furniture, and ramps 7 and 9 in Sub-Zone 201,

as well as works at Williamstown Rd and ramps W1 and W2 in Sub-Zone 202B. Deck pours, pier protection barriers were completed at Bridge 10. For Bridge 13 construction of retaining wall and shotcrete wall at abutments continued. Bridge 14 construction of pier protection barriers were completed and construction of soil nail wall continued. Pier strengthening works were completed at Bridge 15, while crack rectification works were completed at Bridge 16. In Sub-Zone 202A and 202B, the G1 ramp and the West Gate Freeway Stage 3 between Ramp M2 and W1 traffic switch were completed, as well as continued installation of noise wall panels and construction of pavements and Shared Use Path (SUP). For Bridge 22, paint works for existing beams and concrete works were completed for the southern widening, while northern widening works commenced. Outbound widening on both sides of Bridge 23 were also completed. Bridge 26 bearing replacement and carbon fibre strengthening works were completed and bridge shear strengthening commenced. In Sub-Zone 203, construction of RSS wall east of Williamstown Rail Line was completed and Jemena 3 works resumed. Construction of bridge substructure and superstructure works in Sub-Zone 203 continued.

Tunnels and Portals

TBM1 commissioning commenced in January 2022, with tunnelling expected to commence in March 2022. Spoil disposal from the commissioning phase of TBM1 was removed from site by a test and release process from the Pivot Spoil Bins. Following the TBM's departure, the North Portal structural team are in the process of advancing Form Reinforcement Pour walls, reinforced concrete walls and precast road decks within the Outbound side of the cut and cover box and the Buildings team are preparing to commence groundworks and piling for the Freeway Control Centre. Stockpile removal commenced from the Outbound South Portal to permit construction of the High Voltage sub-station and the roof section and strutting of the Melbourne Fire Brigade ramp. Following the February completion of the West Zone traffic switch onto the Inbound South Portal roof, the in-situ base slab and walls are advancing eastwards through the cut and cover box, following a staged sequence of ground anchor de-stressing, and prioritisation of construction of the Over Height Vehicle Ramp. A campaign is underway to rapidly progress bulk excavation and support of the TBM Reception Pit with the rockhead already exposed.

Eas

Form Replacement Pours (FRP) continued for various substructure elements for Bridge 51 and Bridge 53 in Sub-Zone 401. Construction of significant crane platforms were ongoing, with fabrication and erection of steel temporary supports. Piling and FRP works of Bridge 54 Shared Use Path (SUP) substructure elements commenced. FRP works for Bridge 55 SUP Abutment A continues. Precast Super Tee bridge beams to two spans of Bridge 53 were erected, and FRP works of in-situ topping slab commenced. Construction of Spill Containment System along east bank is ongoing. In Sub-Zone 402, FRP works of all Bridge 60 pile caps are now completed along with the erection of match-cast columns and capitals. Erection of Bridge 60 superstructure continues, using the Launching Gantry. Erection of match-cast columns and capitals for Bridge 61 is ongoing. In Sub-Zone 403, carbon fibre strengthening works at existing pier capitals for Bridge 70 commenced, while existing parapets from the eastern side of Bridge 70 off ramp were removed. Hydro-demolition of existing CityLink pavement also commenced. Permanent props required for Bridge 70 widening continued to be installed to the underside of the road deck, FRP works continued for multiple Bridge 71 and Bridge 72 substructure elements, while erection of match-cast columns and capitals/crossings are ongoing. F-Gate Melbourne Operations Terminal (MOT) drainage realignment subgrade lime stabilisation completed, with installation of structural and capping layers subsequently commenced. Installation of Pier Protection Track Slab commenced, with first stage of the works completed. Installation of drainage for the new F-Gate MOT access road commenced within the Fishmarket. In Sub-Zone 404, FRP works were ongoing for Bridge 80 deflection walls, blade walls and portals along with erection of match-cast columns at multiple locations. FRP works continue at various Bridge 81 substructure elements. Clearing and grubbing of the centre median of Bridge 82 was also undertaken, while Bridge 85 FRP works associated with abutments and columns continues.



Photo 1 – Superstructure along Footscray Road – East Zone (Source: WGTP MTIA, 10 February 2022)

2.4 Audit Findings Classification

Audit findings are classified in each audit according to the following definitions which are aligned with classifications provided by AS/NZS ISO14001: 2015, the Joint Accreditation System of Australia and New Zealand (JAS-ANZ), and audit classifications utilised on previous high-profile Victorian infrastructure projects. The definitions of conformance, non-conformance, opportunity for improvement, observation, and not applicable are provided below.

Conformance

There is suitable evidence to confirm that actions have been undertaken, prepared and/or implemented in full conformance with the requirements of the auditable element. Findings are reported by exception only, and as such conformances are not detailed within this report.

Non-conformance

An instance, event or occurrence that has not fulfilled a requirement that has been specified in the Strategy, CEMP, WEMP, EPRs, legislation, and approval conditions. A situation, which would, on the basis of available objective evidence raise significant doubt as to the effectiveness of environmental management.

Opportunity for Improvement

A deficiency in the implementation of the Strategy, CEMP, WEMPs, or associated documentation judged to be a risk to the environment, or to environmental management, without constituting an overall failure in the area concerned.

Observation

An audit finding which may relate to an incidental or isolated system discrepancy, which does not compromise the effectiveness of environmental management, or constitute an actual or potential environmental risk. Observations are also made to note a positive improvement on the Project.

Not Applicable

The auditable element falls outside the scope of the audit, e.g. work relevant to the element being audited has not yet commenced. Findings are reported by exception only, and as such 'Not Applicable' findings are not detailed within this report.

It should be noted that the audit only reports on non-conformances, areas for improvement and observations against the CEMP findings. All other areas within the scope of the audit should be assumed to be compliant. Where EPRs have been audited, compliance findings are also included.

The IREA does not require observations to be formally closed out after they have been issued and therefore will not report these in subsequent audit reports. It is the responsibility of the D&C Subcontractor and Project Co to address these findings.

Significance of Findings

The nature of findings may vary. In reviewing the results of audit findings, it is necessary to understand the context in which they have been issued. For instance, some findings may be administrative in nature compared with those that pose an immediate and/or significant risk to the environment. An example of an administrative finding might include the requirement for the D&C Subcontractor to use a particular system to record incidents, where this is defined in the CEMP. However, if the D&C Subcontractor has upgraded this system and replaced it with an alternative, this means the CEMP is now out of date and does not reflect current practices. The D&C Subcontractor in this case may not be conforming with the original CEMP (which is captured as a non-conformance in an audit), but it does not necessarily mean that incidents are not being reported. This requirement is likely to be modified in the next version of the CEMP. Administrative findings therefore do not always pose a significant risk to the environment.

Alternatively, if the D&C Subcontractor was found to have caused an incident resulting in a discharge to the river, this would be viewed as an environmental non-conformance of greater significance.

Similarly, some findings are localised (rather than systemic) in nature. For example, a non-conformance raised against a WEMP may reflect an immediate issue at a particular worksite, which can be addressed and closed out by taking immediate on-site action.

West Gate Tunnel Project



Photo 2 – Bridge 30 Hyde Street Ramp – West Zone (Source: WGTP MTIA, 2 March 2022)

3 SIX-MONTHLY AUDIT FINDINGS

The key findings arising from the IREA's most recent six months of auditing are included in the sub-sections below.

- Section 3.1 summarises audit findings of the Strategy.
- Section 3.2 outlines findings of formal auditing and checking of EPRs.
- Section 3.3 describes audit findings against the CEMP and subplans.
- Section 3.4 provides findings of the WEMP audits.

3.1 Environmental Management Strategy

Audits of the Strategy are conducted six-monthly, with one conducted during this reporting period. Overall, Project Co was found to be meeting their obligations under the Strategy.

No adverse findings were raised against Project Co during the Strategy audit.

Previous reporting periods

No findings remain open from previous reporting periods.

3.2 Environmental Performance Requirements

The majority of EPRs formally audited during this reporting period were considered compliant. No non-conformances were raised, while two opportunities for improvement were raised during this reporting period. The following sub-sections focuses on non-conformances and opportunities for improvement raised in this reporting period and previous reporting periods.

Project Co / the D&C Subcontractor is responsible for delivering the majority of EPRs listed below unless otherwise specified as being delivered by the State.

3.2.1 Environmental Management

One environmental management EPR was audited during this reporting period, namely EMP3. EMP3 was deemed compliant.

Previous reporting periods

Two opportunities for improvement against EMP4 remain open from previous auditing periods.

Refer also to related CEMP findings in Section 3.3.

3.2.2 Air Quality

No air quality EPRs were audited during this reporting period.

The IREA also notes that two AQP EPRs were not audited in the audit period as they relate to the operational phase, which does not currently relate to the scope of the Project. These inactive EPRs are AQP5 and AQP7.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Air Quality Management Plan findings in Section 3.3.1.

3.2.3 Business

Eight business EPRs were audited during this reporting period, namely BP1, BP2, BP3, BP4, BP5, BP7, BP8, and BP9. All were deemed compliant.

Previous reporting periods

Three opportunities for improvement remain open against BP3 and BP5 (two findings) from previous reporting periods.

Refer also to related Business Involvement Plan findings in Section 3.3.14.

3.2.4 Cultural Heritage

Five cultural heritage EPRs were audited during this reporting period, namely CHP4, CHP5, CHP6, CHP10, CHP12. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Heritage Management Plan findings in Section 3.3.8.

3.2.5 Contaminated Soil and Spoil Management

No contaminated soil and spoil management EPRs were audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open against CSP2 from previous reporting periods.

Refer also to related Soil and Spoil Management Plan findings in Section 3.3.10.



Photo 3 - South Portal Inbound - Tunnels Zone (Source: WGTP MTIA, 8 December 2021)

3.2.6 Ecology

Five ecology EPRs were audited during this reporting period, namely EP2, EP3, EP4, EP6, and EP7. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Flora and Fauna Management Plan findings in Section 3.3.4.

3.2.7 Greenhouse Gas Emissions

One greenhouse gas emissions EPR was audited during this reporting period, namely GGP2.

One opportunity for improvement was raised against GGP2 as gaps in energy and materials tracking were identified.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Energy Management Plan findings in Section 3.3.3.

3.2.8 Ground Movement

Five ground movement EPRs were audited during this reporting period, namely GMP1, GMP2, GMP4, GMP5, and GMP6.

One opportunity for improvement was raised against GMP5 as a post-construction ground movement monitoring program has not been developed and implemented across all zones of the project.

GMP1, GMP2, GMP4 and GMP6 were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Ground Movement Management Plan findings in Section 3.3.5.

3.2.9 Groundwater

Two groundwater EPRs were audited during this reporting period, namely GWP3 and GWP7. Both were deemed compliant.

Previous reporting periods

One non-conformance remains open against GWP1 from previous reporting periods.

One opportunity for improvement remains open against GWP3 from previous reporting periods.

Refer also to related Groundwater Management Plan findings in Section 3.3.6.

3.2.10 Land Use

Two land use EPRs were audited during this period, namely LPP2 and LPP5. Both were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Landscape Management Plan findings in Section 3.3.13.

3.2.11 Landscape and Visual

Four landscape and visual EPRs were audited during this reporting period, namely LVP2, LVP3, LVP4, and LVP5. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Landscape Management Plan findings in Section 3.3.13.

3.2.12 Noise and Vibration

Seven noise and vibration EPRs were audited during this reporting period, namely NVP4, NVP7, NVP8, NVP10, NVP11, NVP13, NVP18. All were deemed compliant.

The IREA also notes that a number of NVP EPRs were not audited in the audit period as they relate to blasting, tunnelling and/or operational phase, which were not relevant to the scope of the Project at the time of auditing. These inactive EPRs are NVP3, NVP6, NVP9, NVP12, NVP15, NVP16 and NVP17.

Previous reporting periods

One opportunity for improvement remains open against NVP8 and NVP18 from previous reporting periods. Refer also to Construction Noise and Vibration Management Plan findings in Section 3.3.2.



Photo 4 – West Gate Freeway M80 Interchange – West Zone (Source: WGTP MTIA, 21 October 2021)

3.2.13 Social

Three social EPRs were audited during this reporting period, namely SP3, SP4, and SP5. All were deemed compliant.

Previous reporting periods

Two opportunities for improvement remain open against SP2 from previous reporting periods.

3.2.14 Surface Water

One surface water EPR was audited during this reporting period, namely SWP8. SWP8 was deemed compliant.

Previous reporting period

Two opportunities for improvement raised against this EPR in previous reporting periods were closed during this reporting period.

One opportunity for improvement remains open against SWP7 from previous reporting periods.

Refer also to Water Management Plan findings in Section 3.3.12.

3.2.15 Transport

Three transport EPRs were audited this reporting period, namely TP4, TP5, and TP8.

TP1 was included in the audit schedule during this reporting period but was not audited as relevant design components for this EPR are now complete. TP1 will be monitored by the IREA through established processes, rather than explicit auditing.

TP4, TP5 and TP8 were deemed compliant.

Previous reporting periods

Two opportunities for improvement raised against this EPR in previous reporting periods were closed during this reporting period.

3.2.16 Waste Management

One waste management EPR was audited during this reporting period, namely WMP1. WMP1 was deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to Waste Management Plan findings in Section 3.3.11.

3.3 Construction Environmental Management Plan

Overview

CEMP audits are conducted on a quarterly basis, with two CEMP audits conducted during the reporting period.

During the November 2021 audit the following management plans and sections were audited:

- CEMP (Element 2 Planning, Element 7 Training and Competency, Element 11 Document and Record Management).
- Business Involvement Plan.
- Construction Noise and Vibration Management Plan (Section 5 Management, and Section 6 Monitoring and Reporting).
- Flora and Fauna Management Plan (Section 4 Management Measures, and Section 5 Monitoring and Reporting).

- Landscape Management Plan (Section 3 Implementation).
- Lighting Management Plan (Section 4 Management Measures, and Section 5 Monitoring).

During the February 2022 audit the following management plans and sections were audited:

- CEMP (Element 4 Risk and Opportunity Management, Element 5 Change Management, Element 6
 Communication and Consultation, Element 9 Incident Management, Element 10 Emergency Response).
- Heritage Management Plan (Section 9 Training).
- Waste Management Plan (Section 4 Management Measures).

Current Reporting Period

Two observations were raised against the following CEMP Elements:

- One observation against Element 2.3 due to CEMP sub-plans overdue for their review.
- One observation against Element 6.5 due to identified record-keeping improvements for actioning feedback received from stakeholders.

Previous Reporting Periods

Five opportunities for improvement remain open against the CEMP from previous reporting periods.

3.3.1 Air Quality Management Plan

The Air Quality Management Plan (AQMP) was not specifically audited during this reporting period.

Previous reporting periods

One non-conformance raised against the AQMP from previous reporting periods was closed during this reporting period.

No findings remain open from previous reporting periods.

Refer to Section 3.2.2 for findings relating to air quality EPRs.

3.3.2 Construction Noise and Vibration Management Plan

One observation was raised against the Construction Noise and Vibration Management Plan (CNVMP) during this reporting period. The observation is related to missing appendices in a construction document.

Previous reporting periods

Two opportunities for improvement remain open from previous reporting periods.

Refer to Section 3.2.12 for findings relating to noise and vibration EPRs.

3.3.3 Energy Management Plan

The Energy Management Plan (EMP) was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.7 for findings relating to greenhouse gas emissions EPRs.

3.3.4 Flora and Fauna Management Plan

One observation was raised against the Flora and Fauna Management Plan (FFMP) during this reporting period. The observation relates to inconsistent wording in the FFMP.

West Gate Tunnel Project

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.6 for findings relating to ecology EPRs.

3.3.5 Ground Movement Management Plan

The Ground Movement Management Plan (GMMP) was not specifically audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

Refer to Section 3.2.8 for findings relating to ground movement EPRs.

3.3.6 Groundwater Management Plan

The Groundwater Management (GMP) was not specifically audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

Refer to Section 3.2.9 for findings relating to groundwater EPRs.

3.3.7 Hazardous Substances Management Plan

The Hazardous Substances Management Plan (HSMP) was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.14 for findings relating to hazardous substances EPRs.

3.3.8 Heritage Management Plan

No adverse findings were raised against the Heritage Management Plan (HMP) during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.4 for findings relating to cultural heritage EPRs.

3.3.9 Lighting Management Plan

Two observation was raised against the Lighting Management Plan (LMP) during this reporting period. Both observations relate to management measures not being implemented, however both were considered to be low-risk.

Previous reporting periods

Two opportunities for improvement remain open from previous reporting periods.

3.3.10 Soil and Spoil Management Plan

The Soil and Spoil Management Plan (SSMP) was not specifically audited during this reporting period.

Previous reporting periods

Two opportunities for improvement remain open from previous reporting periods.

Refer also to Section 3.2.5 for findings relating to soil and spoil EPRs.



Photo 5 - City Link - East Zone (Source: WGTP MTIA, 8 September 2021)

3.3.11 Waste Management Plan

One observation was raised against the Waste Management Plan (WMP) during this reporting period. The observation relates to minor litter and incorrect waste segregation identified on site.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to Section 3.2.16 for findings relating to waste EPR.

3.3.12 Water Management Plan

The Water Management Plan (WMP) was not specifically audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

Refer to Section 3.2.14 for findings relating to surface water EPRs.

3.3.13 Landscape Management Plan

The Landscape Management Plan (LdMP) was audited during this reporting period, with no adverse findings raised against this plan.

The LdMP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the LdMP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

No findings remain open from previous reporting periods.

3.3.14 Business Involvement Plan

The Business Involvement Plan (BIP) was audited during this reporting period, with no adverse findings raised against this plan.

The BIP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the BIP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

One opportunity for improvement raised against the BIP remains open from previous reporting periods.

Refer to Section 3.2.3 for findings relating to business EPRs.

3.3.15 Construction Communications and Community Engagement Plan

The Construction Communications and Community Engagement Plan (CCCEP) was not specifically audited during this reporting period.

The CCCEP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the CCCEP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

No findings remain open from previous reporting periods.

3.4 Worksite Environmental Management Plan

WEMP audits are conducted on a monthly basis, with six WEMP audits conducted during this reporting period. A total of nine findings were raised in this reporting period compared to 14 in the previous reporting period. Findings raised during this reporting period comprised:

- No non-conformances.
- Four opportunities for improvement.
- Five observations.

Of all WEMP findings:

- 44% related to hazardous substances management.
- · 22% related to noise and vibration management.
- · 22% related to water management.
- 12% related to tree management.

These figures are reflective of the types of works happening across the Project. The D&C Subcontractor has improved their on-site environmental management, resulting in the reduction of new audit findings from 14 findings in the previous reporting period to nine during this reporting period.

One opportunity for improvement was closed during this reporting period. One non-conformance and 16 opportunities for improvement remain open from previous reporting periods.

The reporting period saw a slight increase in the number of findings open compared to the previous reporting period. In total there are 20 outstanding findings, comprising one non-conformance and 19 opportunities for

improvement. Note, three opportunities for improvement raised in previous reporting periods that remain open are project-wide and are not covered in the zone specific sub-sections below.

3.4.1 West Zone

Refer to Section 2.3.1 for an update on construction activities in the West Zone.

Six findings were raised during WEMP audits of the West Zone in this reporting period.

Three opportunities for improvement were raised:

- Two relating to noise management, one of which was administrative in nature.
- One relating to tree protection.

Three observations were raised.

Of the six findings raised during this period, three opportunities for improvement remain open.

Previous reporting periods

One opportunity for improvement raised against West Zone WEMPs from previous reporting periods was closed during this reporting period.

Ten opportunities for improvement remain open from previous reporting periods.

3.4.2 Tunnel Zone

Refer to Section 2.3.1 for an update on construction activities in the Tunnel Zone.

Two findings were raised during WEMP audits of the Tunnel Zone in this reporting period.

One opportunity for improvement was raised, relating to housekeeping on site.

One observation was raised.

Of the two findings raised during this period, none remain open.

Previous reporting periods

One non-conformance and two opportunities for improvement audit findings remain open from previous reporting periods.

3.4.3 East Zone

Refer to Section 2.3.1 for an update on construction activities in the East Zone.

One observation was raised during WEMP audits of the East Zone in this reporting period, which was closed in the same period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

West Gate Tunnel Project



Photo 6 – TBM Northern Portal – Tunnel Zone (Source: WGTP MTIA, 7 March 2022)

4 AUDIT CONCLUSIONS

Environmental Management Strategy

Project Co is generally meeting their obligations under the Strategy. No adverse findings were raised during this reporting period.

No findings remain open from previous reporting periods.

Environmental Performance Requirements

During the last six-month reporting period the IREA formally audited 49 EPRs. The majority of EPRs audited during the reporting period were deemed compliant. The findings are summarised below:

- No non-conformances were raised during this audit period.
- Two opportunities for improvement were raised. These related to emissions and ground movement management.
- No observations were raised during this audit period.

Four opportunities for improvement from previous reporting periods were closed. In total there are 15 findings remaining open at the end of this reporting period, comprising of one non-conformance and 14 opportunities for improvement. The IREA will continue to work with Project Co / D&C Subcontractor to close out any outstanding findings.

Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Construction Environmental Management Plan

The last six-month reporting period focused on auditing a range of CEMP elements and subplans.

The CEMP audit findings for the November 2021 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Five observations were raised.

The CEMP audit findings for the February 2022 quarterly audit are summarised below:

- · No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Two observations were also raised.

No findings from previous reporting periods were closed during this reporting period. In total there are 14 findings remaining open at the end of this reporting period, comprising of 14 opportunities for improvement. The IREA will continue to work with Project Co / D&C Subcontractor to close out any outstanding findings.

Worksite Environment Management Plans

During the reporting period six WEMP audits were conducted. A total of nine findings were raised in this reporting period. These consisted of:

- No non-conformances.
- Four opportunities for improvement.
- Five observations.

The D&C Subcontractor has improved their system processes and environmental management on site, resulting in the reduction of new audit findings from 14 findings in the previous reporting period to nine during this reporting period. One opportunity for improvement was closed during this reporting period. In total there are 20 WEMP audit findings remaining open, comprising one non-conformance and 19 opportunities for improvement. All findings raised between March 2018 and October 2019 were closed.

Conclusions

The findings arising from this reporting period by the IREA have not identified any immediate significant or material risks to the environment.

Implementation of the EPRs was found to be generally compliant, with two opportunities for improvement during the reporting period.

Audit findings during the period relate to a range of matters, mostly specific to on-site matters, including inadequate or inconsistent:

- Energy and materials tracking to determine project emissions.
- Post-construction ground movement monitoring program, which has yet to be developed and implemented
- Noise management, including administrative documentation in the West Zone.
- Tree protection in the West zone.
- General site maintenance in the Tunnel Zone.

Progress in closing out audit findings has remained steady. The IREA encourages continued efforts by Project Co and the D&C Subcontractor to close out remaining open audit findings.



Photo 7 – Dynon Rd – East Zone (Source: WGTP MTIA, 8 September 2021)

APPENDIX A- EPR AUDITING STATUS

Phase: D = Design; PC = Pre-construction; C = Construction; PC = Pre-operation; O = Operation

Type of review and surveillance: MP = Management Plan; DP = Design Package; CR = Construction Documentation Review; CS = Construction Surveillance

| Environm | Environmental Performance Requirements | | Review & Surveillance Audit | | | | | Phase | Project and Audit Status (May 2021 to February 2022) * | Responsible Party |
|-------------|---|-----|-----------------------------|---|---|---------------------------------|---|-------------|---|--|
| LIIVIIOIIII | | | MP DP CRC | | | May-Aug-Nov-Feb- 21 21 21 22 | | - | 1 Toject and Addit Status (May 2021 to February 2022) | responsible Fairty |
| ENVIRO | NMENTAL MANAGEMENT | | | | | | | | | |
| EMP1 | Environmental Management Strategy | Х | | | | | | All | The IREA audited this EPR in August 2018 and it was deemed compliant. The IREA do not intend to audit this EPR again unless the EMS is updated. | Project Co (WGTP MTIA will publish the Strategy) |
| EMP2 | Environmental Management Plans | Х | X | Х | X | | | All | An observation was raised in May 2021 (May-21_EMP_01). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C / OpCo |
| EMP3 | Environmental Compliance | | | | | | х | PC, C, O | The IREA audited this EPR in February 2021 and it was deemed compliant. | D&C / OpCo (WGTP MTIA will forward audit reports to Minister for Planning and will publish audit reports only) |
| EMP4 | Complaints Management System | v | | | X | | | PC, C | An opportunity for improvement was raised in August 2018 (Aug-18_EPR_04) and another in May 2019 (May-19_EPR_02). Both findings remain open. | D&C |
| CIVIP4 | Complaints Management System | ^ | | | ^ | | | PG, G | The IREA audited this EPR in May 2021 and it was deemed compliant, while noting the previous findings remain open. | |
| AIR QUA | LITY | | | | | | | | | |
| AQP1 | Tunnel Ventilation System Design | | X | | Х | | | D, C | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| AQP2 | Zero Portal Emissions |] | X | х | | | | D, O | The IREA audited this EPR in May 2020 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| AQP3 | In Tunnel Air Quality | | X | х | | | | D, O | The IREA audited this EPR in May 2020, and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| AQP4 | Ambient Air Quality Monitoring | X | | X | Х | | | C, O | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C / OpCo |
| AQP5 | In Tunnel Air Quality and Ventilation Structure Emissions Compliance | | | | | | | 0 | Not yet audited. Not applicable to construction phase. | OpCo |
| AQP6 | Air Quality During Construction | X | Х | Х | Х | | | С | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| AQP7 | Roadside Air Quality Mitigation Strategy | | | | | | | 0 | Not yet audited. Not applicable to construction phase. | WGTP MTIA (OpCo) |
| BUSINES | SS | | | | | | | | | |
| BP1 | Damage or Impacts on Third Party Property and Infrastructure | X : | хх | Х | | Х | | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| BP2 | Access and Amenity for Business and Commercial Facilities |) | хх | Х | | Х | | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| BP3 | Screening | | x x | Х | | x | | С | An opportunity for improvement was raised in November 2020 (Nov-20_EPR_03) and remains open. The IREA audited this EPR in November 2021 and it was deemed compliant, while noting the previous findings remain open. | D&C |

| Environmental Performance Requirements | | | view veill | / & lance | Αι | Audit | | | | | |
|--|---|----|---------------|--------------|------|--------------|--------|-----------------|---|-------------------|--|
| Environme | ental Performance Requirements | MP | DP | CRC | s Ma | ay-Aug 21 | Nov-Fe | Pha eb- ? | Project and Audit Status (May 2021 to February 2022) * | Responsible Party | |
| BP4 | Impacts on Operation of Community, Private Recreation and Council Facilities and Services | | Х | хх | | | х | All | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C / OpCo | |
| BP5 | Business Involvement Plan | х | | x x | | | х | PC, | An opportunity for improvement was raised in August 2018 (Aug-18_EPR_07) and another in August 2019 (Aug-19_EPR_26). Both findings remain open. The IREA audited this EPR in November 2021 and it was deemed compliant, while noting the previous findings remain open. | D&C | |
| BP6 | Utility Assets | | Χ | ХХ | | Х | | D, C | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |
| BP7 | Gas Utilities | | Χ | ХХ | | | X | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C | |
| BP8 | Business Disruption | | Χ | ХХ | | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| BP9 | Business Acquisition Process | | Х | хх | | | x | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. As no further business acquisition is anticipated, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | WGTP MTIA | |
| CULTURAL HERITAGE | | | | | | | | | | | |
| CHP1 | Cultural Heritage Management Plan | Х | Х | хх | Х | | | D, C | An observation was raised in May 2021 (May-21_EPR_06). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C | |
| CHP2 | Design and Construction to Minimise Impacts on Heritage | | X | x x | | Х | | D, P C | C, The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |
| CHP3 | Archaeological Management Plan | Χ | | ХХ | | Х | | PC, | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |
| CHP4 | Monitoring of Heritage Sites and Places | | Χ | ХХ | | | Х | С | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| CHP5 | Archival Photographic Records | | Χ | | | | X | PC | The IREA audited this EPR in February 2022 and it was deemed complaint. | D&C | |
| CHP6 | Port Phillip Monument | | Χ | | | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| CHP7 | Heritage Interpretation Strategy | Х | Х | | | Х | | PC, | An observation was raised in August 2021 (Aug-21_EPR_04). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C | |
| CHP8 | Shipwrecks | Χ | Χ | ХХ | | Х | | PC, | The IREA audited this EPR in August 2021 and it was deemed complaint. | D&C | |
| CHP9 | Maribyrnong River Front (Footscray) | | X | x x | | Х | | D | An observation was raised in August 2021 (Aug-21_EPR_06). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C | |
| CHP10 | Bluestone Bridge | | Χ | | | | Х | С | The IREA audited this EPR in November 2021 and it was deemed complaint. | D&C | |
| CHP11 | Rail Turntables | | Х | хх | | | | D | The IREA audited this EPR in November 2019 and it was deemed complaint. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C | |
| CHP12 | Flinders Street | | | | | | Х | С | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| CONTAM | INATED SOIL AND SPOIL MANAGEMENT | | | | | | | | | | |
| CSP1 | Contaminated Soil Requirements | Х | Х | хх | | Х | | С | The IREA audited this EPR in August 2021. No finding was raised, a related finding raised in November 2020 against EPR CSP2 (refer Nov-20_EPR_09) remains open. | D&C | |
| CSP2 | Contaminated Soil and Spoil Management | Х | X | x x | | Х | | PC, | The IREA audited this EPR in August 2021. No finding was raised, a related finding raised in November 2020 against EPR CSP2 (refer Nov-20_EPR_09) remains open. | D&C | |
| CSP3 | Acid Sulphate Soil | Χ | | хх | | Х | | PC, | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |

| | | _ | viev | v & Ilance | | Audit | | | | | |
|--------------------------|--|------|----------|---------------|-----|---------------|---|--------|-------------|---|-------------------|
| Environn | nental Performance Requirements | MPDI | | 1 1 | _ | May-A 21 2 | | Nov-Fe | | Project and Audit Status (May 2021 to February 2022) * | Responsible Party |
| CSP4 | Odour Management | X | t | X > | (| X | | | С | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| ECOLOG | GY . | | <u> </u> | | | | | | | | |
| EP1 | Minimise Vegetation Removal and Disturbance | | Х | X > | (| | | | D, PC, C | The IREA audited this EPR in August 2020 and it was deemed compliant. | D&C |
| EP2 | Vegetation Protection Measures | Х | Χ | X > | (| | | X | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| EP3 | Reinstatement | | Χ | X > | (| | | Х | С | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C |
| EP4 | Fauna Management Measures | X | Χ | X > | (| | į | X | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| EP5 | Works on Waterways | | Χ | X | | X | | | D, C | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| EP6 | Landscaping Plan | | Х | | | |) | X | D, PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| EP7 | Vegetation Offsets | X | | X > | (| | | X | С | The IREA audited this EPR in November 2021 and it was deemed compliant. | WGTP MTIA |
| GREENHOUSE GAS EMISSIONS | | | | | | | | | | | |
| GGP1 | Greenhouse Gas Emissions | | Х | X > | () | X | | | D | An observation was raised in May 2021 (May-21_EPR_08). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| GGP2 | Emissions Reduction | | Χ | X > | (| | į | X | D, C | An opportunity for improvement was raised in November 2021 (Nov-21_EPR_11) and remains open. | D&C |
| GROUN | D MOVEMENT | | | | | | | - | | | |
| GMP1 | Geotechnical Model and Assessment | | Χ | X > | (| | | X | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| GMP2 | Tunnel and Portal Drainage | | Χ | X > | (| | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C |
| GMP3 | Condition Surveys and Determination of Settlement Criteria for Property and Infrastructure | | X | X X | (| Х | | | PC, C, O | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C / OpCo |
| GMP4 | Settlement Criteria for Utilities | | Χ | X > | (| | | Х | PC | The IREA audited this EPR in February 2022 and it was deemed complaint. | D&C |
| GMP5 | Ground Movement Monitoring | Х | Х | X > | (| | 2 | × | PC, C, O | An opportunity for improvement was raised in November 2021 (Nov-21_EPR_13) and remains open. | D&C / OpCo |
| GMP6 | Mitigation of Ground Movement Impact | X | Χ | X > | (| | | Х | C, O | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C / OpCo |
| GROUN | DWATER | | | | | | | | | | |
| GWP1 | Groundwater Management Measures | Х | Х | X > | (| Х | | | PC, C, O | A non-conformance was raised in August 2021 (Aug-21_EPR_12) increasing upon the August 2020 finding (Aug-20_EPR_13) from an opportunity for improvement. This remains open. | g D&C / OpCo |
| GWP2 | Protection of Groundwater Quality | X | | X > | (| X | | | С | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| GWP3 | Tunnel Drainage Design and Construction Methods | | X | X X | (| | | Х | D, PC, C | An opportunity for improvement was raised in February 2021 (Feb-21_EPR_12) and remains open. This EPR was audited in February 2022 and it was deemed compliant. | D&C |
| GWP4 | Predictive Groundwater Model | | Χ | X > | (| X | | | PC, C | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| GWP5 | Groundwater Monitoring | | | X > | (| Х | | | PC, C, O | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C / OpCo |
| GWP6 | Interception of Groundwater | X | Χ | X > | (| X | | | С | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| GWP7 | Impacts on Groundwater Users | | Χ | X > | (| | | Х | PC, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C |

| - | and the factor of the factor o | | view rveil | / & lance | e / | Audit | | | Di | Building and A. Pinghan (Man 1999) to Entry of 1999 to | | |
|----------|--|----|---------------|--------------|------|-------|---|--------|-------|--|--|--|
| Environr | nental Performance Requirements | MP | DP | CR | cs į | | | Nov-Fe | | Project and Audit Status (May 2021 to February 2022) * | Responsible Party | |
| LAND U | SE | | | _ | | _ | | | | | <u> </u> | |
| LPP1 | Minimise Design Footprint | | Χ | | | X | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C | |
| LPP2 | Recreation Facilities | | Χ | X | Χ | | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| LPP3 | Future Development Opportunities | | Х | | | X | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C | |
| LPP4 | Pedestrian and Bicycle Connections | | Х | | 3 | X | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C | |
| LPP5 | Public Land | | Χ | X | X | | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| LANDSO | CAPE AND VISUAL | | | | | | | | | | | |
| LVP1 | Urban Design Approach | | Χ | X X | X | | X | | D, C | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |
| LVP2 | Reinstatement Following Temporary Works | | Χ | | | | | Х | D, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C | |
| LVP3 | Light Spillage | X | Χ | X | Χ | | | X | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C | |
| LVP4 | Vegetation Screening | | Χ | | | | | X | С | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C | |
| LVP5 | Design Review | | | | | | | x | D | The IREA audited this EPR in November 2021 and it was deemed compliant. | WGTP MTIA (on receipt of relevant design documentation in accordance with the design review process) | |
| NOISE A | AND VIBRATION | | | | | | | | | | | |
| NVP1 | Traffic Noise Limits | | Χ | X X | X | | X | | D, C | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C | |
| NVP2 | Traffic Noise Reduction of Open Space | | Χ | X | X 2 | X | | | D, C | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C | |
| NVP3 | Maintenance of Noise Mitigation Measures | | | | | | | | 0 | N/A - operational EPR | OpCo (for the maintenance of noise mitigation measures in accordance with sections 18.4 and 18.5 of Part B, otherwise WGTP MTIA) | |
| NVP4 | Traffic Noise Reduction of Millers Road North of West Gate Freeway | 1 | | | | | | X | РО | The IREA audited this EPR in February 2022 and it was deemed compliant. | State | |
| NVP5 | Construction of Noise Barriers | | Χ | X | X | X | | | С | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C | |
| NVP6 | Traffic Noise Monitoring | | X | | | | | | PO, C | Based on Project status this is currently not relevant. | OpCo (for the O&M phase in accordance with sections 18.4 and 18.5 of Part B, otherwise WGTP MTIA) | |
| NVP7 | Construction Noise, Vibration Management, and Monitoring | X | | X X | X | | | Х | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C | |
| NVP8 | Construction Noise Targets | | | X | Χ | | | X | С | An opportunity for improvement was raised in May 2019 (May-19_EPR_24) and remains open. | D&C | |

| Environmental Performance Requirements | | | Review & Surveillance | | | | | | | |
|--|--|---|--------------------------|-----|-----------------|--------------------------|---|-------------|---|-------------------|
| The state of the s | | | OP C | RCS | May-Au 21 21 | May-Aug-Nov- 21 21 21 | | _Phase - | Project and Audit Status (May 2021 to February 2022) * | Responsible Party |
| | | | | | | T | | | The IREA audited this EPR in November 2021 and it was deemed compliant, while noting the previous findings remain open. | |
| NVP9 | Blasting Trials and Assessment | | | | | | | С | The IREA audited this EPR in February 20 and it was deemed compliant. It will not be audited in the 2021-2022 audit period as it is not relevant to the current scope. | D&C |
| NVP10 | Construction Vibration Targets (Amenity) | | X | X | | X | | С | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| NVP11 | Construction Vibration Targets (Structures) | | X | X | | Х | | С | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| NVP12 | Ground-borne (Internal) Noise Targets | | | | | | | С | The IREA audited this EPR in February 2019 and it was deemed compliant. It was not audited in the subsequent audit periods as it was not relevant to the current scope. | D&C |
| NVP13 | Utility Asset Protection | > | < X | Χ | | Х | | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| NVP14 | Tunnel Ventilation System Noise Design | | | Х | | | | D, O | The IREA audited this EPR in May 2020 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| NVP15 | Tunnel Ventilation System Noise Monitoring | | | | | | | 0 | N/A - operational EPR | OpCo |
| NVP16 | Amenity Blast Vibration | | | | | | | С | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited in the 2021 – 2022 audit period as it is not relevant the current scope. | D&C |
| IVP17 | Amenity Blast Overpressure Implement | | | | | | | С | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited in the 2021 – 2022 audit period as it is not relevant to the current scope. | D&C |
| NVP18 | Construction Noise Management | Х | Х | Х | | X | | С | An opportunity for improvement was raised in August 2020 (Aug-20_EPR_24) and remains open. The IREA audited this EPR in November 2021 and it was deemed compliant, while noting the previous findings remain open. | D&C |
| NVP19 | Traffic Noise of Hyde Street, South of Francis Street | | | | | | | С | The IREA audited this EPR in February 2020 and it was deemed compliant. It will not be audited in the 2021 – 2022 period as it is considered closed. | WGTP MTIA |
| SOCIAL | | | | | | | | | | |
| SP1 | Urban Design Principles and Vision | > | < | | Х | | | D | The IREA audited this in August 2021 and it was deemed compliant. | D&C |
| SP2 | Communications and Community | Х | X | Х | Х | | | PC, C, | Two opportunities for improvement were raised in May 2019 (May-19_EPR_26, May-19_EPR_27) and remain open. | D&C / OpCo |
| | Engagement Plan (CCEP) | | | | | | | 0 | The IREA audited this EPR in May 2021 and it was deemed compliant, while noting the previous findings remain open. | |
| SP3 | Community Liaison Group Participation | | | | | Х | | С | The IREA audited this in November 2021 and it was deemed compliant. | D&C / WGTP MTIA |
| SP4 | Social and Local Procurement | Х | | | | | X | PC, C | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C |
| SP5 | Community Involvement and Participation Plan (CIPP) | Х | | | | Х | | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | WGTP MTIA |
| SURFACE | WATER | | | | | | | | | |
| SWP1 | Design of Discharges and Runoff | > | (| | х | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| SWP2 | Water Sensitive Road Design | > | < | | | | | D | The IREA audited this EPR in November 2019 and it was deemed compliant. It will not be audited in the 2021 – 2022 period as it is considered closed. | D&C |

| | | Review & Audit | | | | | | | | | |
|----------|---|----------------|----|-----|------------------|--------|------------|-------------|-------------|---|-------------------|
| Environm | ental Performance Requirements | MP | DP | CRC | s N ₂ | lay-Au | g-No 21 | v-Feb 22 | -Phase - | Project and Audit Status (May 2021 to February 2022) * | Responsible Party |
| SWP3 | Tunnel Wastewater | | X | хх | | | | | PC | The IREA audited this EPR in February 2020 and it was deemed compliant. This EPR relates to operations-phase wastewater. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP4 | Water Quality Monitoring | Х | | x x | | | | | PC | The IREA audited this EPR in August 2018 and it was deemed compliant. It will not be audited in the 2021 – 2022 period as it is considered closed. | D&C |
| SWP5 | Spill Containment Design | | X | X | | | | | D | The IREA audited this EPR in November 2019 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP6 | Management of Chemicals, Fuels, and Hazardous Materials | Х | | x x | X | | | | С | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| SWP7 | Surface Water Management During Construction | Х | | хх | X | | | | С | An opportunity for improvement was raised in May 2020 (May-20_EPR_23) and remains open. The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| SWP8 | Use of non-potable water | | Χ | ХХ | | | | X | С | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C |
| SWP9 | Ponk Ctability | | V | хх | _ | | | | С | An opportunity for improvement was raised in May 2020 (May-20_EPR_25) and remains open. | D&C |
| SWP9 | Bank Stability | | ^ | ^ ^ | ^ | | | | C | The IREA audited this EPR in May 2021 and it was deemed compliant. | |
| SWP10 | Waterway Modifications | | Χ | | X | | | | D, C | An opportunity was raised in May 2021 (May-21_EPR_18) and was closed in October 2021 | D&C |
| SWP11 | Flood Levels, Flows and Velocities | | X | хх | Х | | | | D, PC, C | The IREA audited this EPR in May 2021 and it was deemed compliant. | D&C |
| SWP12 | Floodplain Storage Capacity | П | X | хх | X | | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| SWP13 | Tunnel Portal Flood Risk | | X | Х | | | | | D, O | The IREA audited this EPR in November 2019 and it was deemed compliant. As relevant design components are component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C / OpCo |
| SWP14 | Maintenance of Melbourne water and Other Drainage Assets | | X | хх | | | | | D | The IREA audited this EPR in May 2020 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| SWP15 | North Yarra Main Sewer | | X | | | | | | D | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited in the 2021 – 2022 period as it is considered closed. | D&C |
| TRANSPO | ORT | | | | | | | | | | |
| TP1 | Optimise Design Performance | | Х | | | | | х | D | An opportunity for improvement was raised in February 2020 (Feb-20_EPR_01) and remains open. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| TP2 | Traffic Monitoring | | | x x | | Х | | | PC, C, O | The IREA audited this in August 2021 and it was deemed compliant. | D&C / OpCo |
| ТР3 | Traffic Management Plan | Х | | хх | | Х | | | PC, C | An opportunity for improvement was raised in August 2021 (Aug-21_EPR_21) and was closed in November 2021 | D&C |

| Environm | | | view veilla | & ance | Audit | | | | Project and Audit Status (May 2021 to February 2022) * | Responsible Party |
|----------|--|---|----------------|-----------|-----------------|---------------------|---|-------------|--|-----------------------|
| | | | DP | CRCS | May-Au 21 21 | ıg-Nov-Feb 21 22 | | _Phase - | 1 Toject and Addit Status (May 2021 to 1 coldary 2022) | , receptions to talky |
| TP4 | Public Transport | | X X | x x | | Х | | PC, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| TP5 | Rail operations | | X | | | X | | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| TP6 | Design Standards | | Х | Х | х | | | D, C | The IREA audited this EPR in August 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| TP7 | Traffic Management Liaison Group | | | X | X | | | PC, C | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| TP8 | River Navigation | | X | X | | X | | С | The IREA audited this EPR in November 2021 and it was deemed compliant. | D&C |
| TP9 | Melbourne Metro Rail Authority Interface | | | | Х | | | С | The IREA audited this EPR in August 2021 and it was deemed compliant. | D&C |
| WASTE I | MANAGEMENT | | | | | | | | | |
| WMP1 | Waste Management | X | X X | X | | | Х | D, C, O | The IREA audited this EPR in February 2022 and it was deemed compliant. | D&C / OpCo |

APPENDIX B - IREA SPECIALIST TEAM

The formal audits described in this Minister's Report have been undertaken by the lead IREA Environment Auditor, Hilary Chapman and Assistant Environment Auditors, Ryan MacManus, Caroline Funnell and Camille Boxall. The Lead Auditor was supported by a team of specialists, including (but not limited to):

- IREA Technical Lead for Groundwater, Jason Carr
- IREA Technical Lead for Noise and Vibration, Mike Dowsett
- IREA Technical Lead for Ground Movement, Stuart Oakey
- IREA Technical Lead for Sustainability, Bernadette Fitzgerald.

This report has been reviewed by the IREA Representative, Geoff Shepherd.

APPENDIX C - AUDIT LIMITATIONS

This report was prepared in accordance with generally accepted consulting practice for audit services. The environmental audit requires the IREA to apply a process of "general overview and reasonable checking" of the Project documentation and Design and Construction activities (as required under the contract between the IREA and Project Co / WGTP MTIA). The audit program is risk-based, targeting those Design and Construction activities with a potential for risk to the environment or to environmental management arrangements. Accordingly, it is possible that not all environmental issues will be examined during each audit. However, the IREA maintains a structured program of audits designed to cover all aspects of the Project and to enable the formation of an opinion on whether there is conformance with the requirements of the Strategy, CEMP (and subordinate documentation), WEMPs, and the EPRs (as applicable).