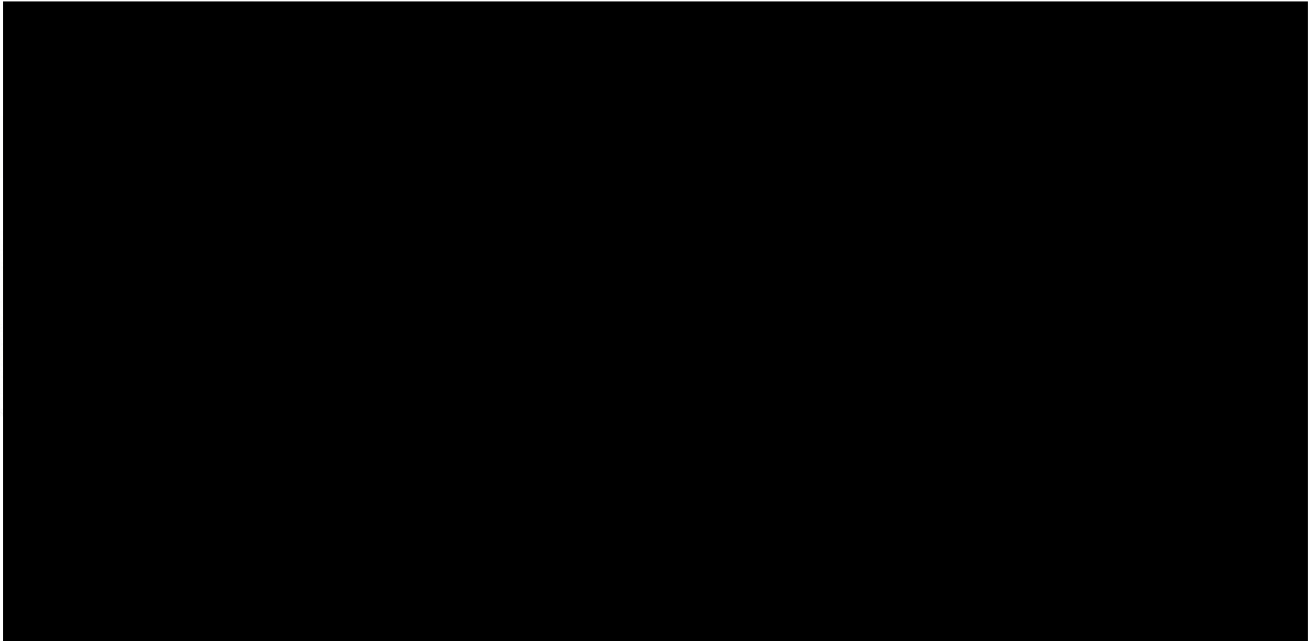


Construction Vehicle Management Plan

Cross River Rail Project – Tunnel, Stations and Development Package (TSD)



Document number: CRRTSD-TM-MPL-CBGU-000013

Revision date: 22/01/2020

Revision: B

Details of Revision Amendments

Document Control

The CBUG Project Director is responsible for ensuring that this Plan is reviewed and approved. The Project Completions Manager is responsible for updating this Plan to reflect changes to the Project, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the CBUG Project Director or the Delivery Authority before being distributed / implemented.

Table 1 Document schedule

Time for Submission	Period during which Project Co must provide updates	Update Interval
6 months prior to the expected date for Handback of the first item to achieve Handback	From initial submission until the Date of Final Acceptance	6-monthly

Revision Details

Table 2 Revision details

Revision	Details
A	Internal Review
B	For Review

Distribution and Authorisation

The CBUG Project Director is responsible for the distribution of this Plan. The controlled master version of this document is available for distribution as appropriate and maintained on TeamBinder. All circulated hard copies of this document are deemed to be uncontrolled.

The implementation of this Plan is under the authority of CBUG Delegated Authority Matrix. All personnel employed on the Project will perform their duties in accordance with the requirements of this Plan, supporting management plans, and related procedures.

Table 3 Distribution list

Recipient	Distribution Method
Cross River Rail Delivery Authority (Delivery Authority)	TeamBinder
Project Independent Certifier (PIC)	TeamBinder
CBUG Project Personnel (including SA and FM)	As per TeamBinder Distribution List
Proof Engineer/Verification Engineer	As per TeamBinder Distribution List

Table of Contents

1	Introduction.....	1
1.1	Background.....	1
1.2	Context	1
1.3	Objectives	1
1.4	Legislative Framework.....	1
1.4.1	Commonwealth Legislation.....	1
1.4.2	State Legislation	1
1.4.3	Approvals, Permits and Licences.....	2
1.4.4	Guidelines and Standards.....	2
2	Required Outcomes.....	3
2.1	Coordinator-General Conditions	3
2.2	Environmental Outcomes.....	3
2.3	Performance Criteria	3
3	Impacts and Mitigation Measures.....	4
3.1	Impacts	4
3.2	Mitigation Measures	4
4	Compliance Management	6
4.1	Roles and Responsibilities	6
4.2	Induction and Training.....	6
4.2.1	Environmental Training	6
4.2.2	Environmental Training	6
4.3	Communication	6
4.4	Incident and Emergencies	6
4.4.1	Incident Notification	6
4.4.2	Incident Types	6
4.4.3	Incident Prevention Management.....	7
4.4.4	Incident Investigation	7
4.4.5	Complaint Management.....	7
5	Inspections, Monitoring, Auditing and Reporting	8
5.1	Environmental Inspections	8
5.2	Monitoring.....	8
5.3	Auditing	8
5.4	Reporting.....	8
5.5	Documentation and Communication	8
5.5.1	Document Control	8

5.5.2	Review	8
5.5.3	Communication	9
Appendix A	Requirements Verification Traceability Matrix.....	10

Table of Tables

Table 1	Document schedule.....	i
Table 2	Revision details.....	i
Table 3	Distribution list	i
Table 4	Referenced Documents.....	iv
Table 5	Terms.....	v
Table 6	Environmental approvals, permits and licences	2

Referenced Documents

The following provides a list of referenced documents either as a sub-plan to this plan or referenced from.

Table 4 Referenced Documents

Document Number	Document Name	Location of Controlled Version
Referenced Project Plans include:		
CRRTSD-EN-MPL-CBGU-000019	Construction Environmental Management Plan (CEMP)	TeamBinder
CRRTSD-TM-MPL-CBGU-000012	Construction Traffic Management Plan (CTMP)	TeamBinder
CRRTSD-TM-MPL-CBGU-000014	CTMP Subplan - Haulage Management Plan	TeamBinder
CRRTSD-CU-MPL-CBGU-000018	Communications and Stakeholder Engagement Management Plan	TeamBinder
CRRTSD-CU-MPL-CBGU-000002	Community Engagement Plan	TeamBinder
TBA	Plant Management Plan	TBA

Note: this Management Plan may not contain the current version of the document listed above. Refer to the 'location of controlled version' for the most current version.

Glossary of Terms

Table 5 Terms

Term	Meaning
BCC	Brisbane City Council
CBD	Central Business District
CBGU	Design & Construct Subcontractor comprising a joint venture with CPB Contractors Pty Ltd, BAM International Australia Pty Ltd, Ghella Pty Ltd and UGL Engineering Pty Ltd
CEMP	Construction Environmental Management Plan
CG	Coordinator-General
CRR	Cross River Rail
CTMP	Construction Traffic Management Plan
CTMP-SP	CTMP Sub Plan
CTMP-SP Haulage Management	Haulage Management Plan
Delivery Authority (CRRDA)	Cross River Rail Delivery Authority
DTMR	Department of Transport and Main Roads
Project	Cross River Rail Project
PSTR	Project Scope and Technical Requirements
QR	Queensland Rail
TeamBinder	Proprietary software used as part of the Project wide Electronic Document Management System
TSD	Tunnel, Stations and Development

1 Introduction

1.1 Background

The Design and Construction Joint Venture comprising of CPB Contractors Pty Ltd, BAM International Australia Pty Ltd, Ghella Pty Ltd and UGL Engineering Pty Ltd (CBGU D&C JV or CBGU) is responsible for delivering the Cross River Rail (CRR) Project (the Project) on behalf of the Cross River Rail Delivery Authority (the Delivery Authority).

This Construction Vehicle Management Plan should be read in conjunction with the Project's overarching Construction Environmental Management Plan (CEMP).

The CEMP provides specific details regarding the background of the Project, the scope of the Project and the staging and timing of key milestones associated with the construction of the Project.

1.2 Context

This Construction Vehicle Management Plan (CVMP) forms part of the Construction Environmental Management Plan (CEMP) developed for the construction of the Project. The CVMP describes how the CBGU will manage construction vehicles to ensure that the Project's impacts on the community and stakeholders with respect to vehicle traffic and transport are minimised.

1.3 Objectives

The objectives of this CVMP which is a sub-plan of the CEMP are to:

- Ensure that the Project's impacts on land and land health are minimised
- Ensure controls and procedures are implemented during construction activities to avoid, minimise or manage potential adverse impacts to the environment as a result of construction vehicles
- Ensure controls and procedures are implemented to manage construction vehicles from the Project
- Nominate the Project's monitoring and reporting requirements in relation to this plan
- Monitor the effects of management and mitigation measures.

1.4 Legislative Framework

1.4.1 Commonwealth Legislation

Commonwealth legislation that is relevant to the Project and this CVMP includes:

- *Australia Road Rules*
- *Heavy Vehicle National Law*

1.4.2 State Legislation

State legislation that is relevant to the Project and this CVMP includes:

- *Cross River Rail Delivery Authority Act 2016*
- *Environmental Protection Act 1994*
- *Environmental Protection (Air) Policy 2008*
- *Work Health and Safety Act 2011*
- *Transport Operations (Road Use Management) Act 1995*

1.4.3 Approvals, Permits and Licences

CBGU will obtain or ensure that subcontractors have the relevant licences, permits and approvals as required by law and maintain them as required throughout the delivery phase of the project. No condition of the Infrastructure Approval removes the obligation for CBGU to obtain, renew or comply with such necessary licences, permits or approvals.

Approvals expected to be required for the Project, that relate to impacts and management are identified in Table 6 below.

Table 6 Environmental approvals, permits and licences

Approval / Permit / Licence	Regulatory Authority	Responsibility / Timeframe
Haulage Routes	BCC/DTMR	CBGU
Site Access Point	BCC	CBGU
Construction Traffic Management Plan	BCC/DTMR	CBGU
CTMP Precinct specific Sub Plans	BCC/DTMR	CBGU

1.4.4 Guidelines and Standards

Design, construction and commissioning of the works must be undertaken in accordance with the specific guidelines nominated in the relevant sub-sections within this management plan. While there are no guidelines and standards specifically related to construction vehicles – general environmental guidelines and standards are to be followed as detailed in the overarching CEMP.

2 Required Outcomes

The following requirements must be achieved throughout construction of the Project.

2.1 Coordinator-General Conditions

The following Imposed conditions must be achieved for the Project:

Appendix 1 – Part C – Condition 4 Construction Environmental Management Plan

- (a) *Prior to the commencement of Project Work, a construction Environmental Management Plan for those works (Relevant Project Works) must be developed by the Proponent and endorsed by the Environmental Monitor as being consistent with the Outline EMP and these imposed conditions.*

Appendix 1 – Part C – Condition 14 Traffic and Transport

- (c) *Heavy construction vehicle use only designated routes for spoil haulage and deliveries of major plant, equipment and materials, in accordance with the Construction Environmental Management Plan. The designated haulage routes for each worksite must follow major arterial roads to the extent practicable and be developed in consultation with the Department of Transport and Main Roads and the Brisbane City Council in preparation of the Construction Environmental management Plan.*

2.2 Environmental Outcomes

The following environmental outcomes in relation to vehicle management are to be achieved for the Project:

- Project construction traffic is managed to avoid or minimise and mitigate adverse impacts on road safety and traffic flow, public transport, pedestrians and cyclist safety, property access and parking, existing road pavements and railway tracks.

2.3 Performance Criteria

The following are the performance criteria the Project is to be assessed against:

- Safe and efficient access is maintained for pedestrians, bicycles and for passengers to and from public transport facilities, including rail and busway stations and bus stops
- Access to all properties is maintained during construction activities at all times, unless an acceptable solution is agreed with the property owner / occupant and documented
- Disruptions to the operation of the road network and the public transport network due to Project Works must be avoided during peak periods, where possible, and managed during off-peak periods
- Haulage vehicles (i.e. spoil, construction equipment and materials haulage) only travel on designated haulage routes identified in the CTMP Sub Plans, unless agreed beforehand with the relevant road authority and the Environmental Monitor
- Spoil haulage vehicles are managed in real time to and from worksites and spoil sites to avoid speeding, queueing in local streets, congestion areas and traffic incidents, and to manage and avoid over-loading, spills and safety incidents.

3 Impacts and Mitigation Measures

A range of potential impacts to the environment and potential environmental mitigation measures are outlined below.

3.1 Impacts

1. Increased congestion and delays for existing road users due to increased construction traffic on local roads.
2. Increased road incidents due to increased construction traffic on local roads.
3. Impact to traffic and access requirements for other Brisbane projects.
4. Impact to social amenity, in particular, noise for residents surrounding haulage routes.

3.2 Mitigation Measures

The following measures will be implemented to avoid or minimise and mitigate the impacts of Project construction vehicles on the transport network and surrounding communities.

Impact 1:

- The CTMP-SP Haulage Management Plan provides analysis of construction generated traffic impacts and where any specific mitigation measures are required
- The CTMP-SP Haulage Management Plan provides DTMR and BCC the information to co-ordinate the CBGU and other significant construction projects within the Brisbane CBD
- The CTMP Precinct Subplans detail access and egress routes to avoid all local roads.

Impact 2:

- The CTMP Precinct Subplans detail access and egress routes to avoid all local roads
- Real time monitoring of spoil haulage vehicles ensures compliance with routes, construction hours, load limits and speed limits
- The project plant inspection procedures ensure all vehicles are in good working order while travelling on public roads.

Impact 3:

- The CTMP-SP Haulage Management Plan details all CBGU construction vehicle activities in 6-month forecasts which provides information for the relevant road authorities to co-ordinate the various Brisbane based construction projects.

Impact 4:

- The CTMP Precinct Subplans detail access and egress routes to avoid all local roads
- Arterial roads are prioritised in all haulage routes detailed in the CTMP-SP Haulage Management Plan
- The Coordinator Generals change report Condition 10 includes approved haulage times for each precinct of which CBGU will comply with

- All precinct CTMP Subplans detail access procedures to ensure queueing near site accesses, sensitive community facilities and residential neighbourhoods is avoided.

4 Compliance Management

The following requirements must be achieved throughout construction of the Project.

4.1 Roles and Responsibilities

The organisational responsibilities and accountabilities in relation to environmental management throughout Project construction works are outlined in the CEMP.

4.2 Induction and Training

4.2.1 Environmental Training

All CBGU staff, subcontractors and visitors to worksites must attend general induction training that covers general environmental management requirements, site wide controls and site specific and work specific risks and mitigation measures. Further details regarding induction requirements have been outlined in the CEMP.

4.2.2 Environmental Training

Details regarding environmental training requirements have been outlined in the CEMP.

4.3 Communication

Communication strategies including internal communication, external and Government Authority consultation, and stakeholder and community Liaison must be undertaken in accordance with the CEMP and the Communications and Stakeholder Engagement Management Plan (CSEP) and/or Community Engagement Plan (CEP).

4.4 Incident and Emergencies

4.4.1 Incident Notification

The immediate response to all incidents is to make the area safe and undertake measures to prevent further environmental harm. The Environment and Sustainability Manager and Project Director should be notified immediately in the event of a significant environmental incident.

Further details regarding Incident notification, have been outlined in the CEMP.

4.4.2 Incident Types

Incidents that may occur during the Project include; a non-conformance with this plan or an approval permit condition, a complaint from stakeholders of an environmental nature, or an incident involving material or serious environmental harms. Such incidents include, but are not limited to:

- Any breach or potential break of the legislation and approval or permit condition
- Spill of materials on road
- Traffic incidents
- Breach of approved haulage routes
- Damage to public utilities or assets belonging to another entity

- Crashes caused by Project vehicles or plant
- Spills of fuel, oil chemical or other hazardous materials
- Vehicle related complaints from the community.

4.4.3 Incident Prevention Management

Key effective incident prevention is undertaken through environmental inspections and monitoring. During construction works the following preventative strategies will be implemented by CBGU or its representative:

- Daily informal visual inspections of active work sites
- Plant inspection & maintenance procedures
- Real time monitoring of haulage fleet
- Project branded haulage vehicles
- Completion of the Project's Environmental Checklist
- Timely close out of corrective actions as identified in the Project's Environmental Checklist
- Prompt maintenance and repairs identified by daily visual checks of corrective actions as identified in the Project's Environmental Checklist
- Environmental training identified in Section 5.2 the CEMP as being required
- Environmental audits as identified in Section 7.3 the CEMP.

Preventative or corrective actions will be identified in response to an environmental incident, during daily visual inspections or through the Project's Environmental Checklist.

4.4.4 Incident Investigation

The Incident Investigation process has been specified in Section 6.5 the CEMP.

4.4.5 Complaint Management

All complaints are to be dealt with in accordance with the complaint's management procedure outlined in Section 6.6 of the CEMP.

Validated complaints about erosion and sediment must be addressed as soon as practicable after the complaint has been made and in accordance with the complaint's management procedure outlined in the CSEP and/or CEP. Should there be an absence of monitoring data to confirm or refute the complaint, a visual inspection may be undertaken, and the findings reported to both the Environmental Monitor and the complainant. The Environmental Monitor may require a site-specific monitoring campaign to inform the development of additional mitigation measures.

5 Inspections, Monitoring, Auditing and Reporting

This section outlines the compliance process that have been adopted by CBGU to ensure compliance with the Coordinator-General Conditions and any other legislative requirements. The sections below detail specific requirements relating to inspections, monitoring and auditing requirements.

5.1 Environmental Inspections

Inspections will be undertaken to develop and evaluate the effectiveness of environmental controls. This will include assessment of the effectiveness of management measures outlined in Section 3.2.

5.2 Monitoring

Monitoring requirements for construction vehicles are:

- Maintain weekly log books of Project vehicles and plant and construction machinery
- Undertake weekly inspections of all components of vehicles in accordance with a log book agreed to with the CRRDA safety team
- Monitor community complaints system for number and types of complaints for each locality.

5.3 Auditing

Audits will be undertaken to assess the effectiveness of environmental controls, compliance with this CVMP and compliance with other relevant permits, approvals and guidelines. CBGU will undertake a monthly internal audit and report the findings to the Environmental Monitor and the Delivery Authority.. This includes reporting on compliance with the overarching CEMP and the Imposed Conditions.

Audits will be undertaken in accordance with the CEMP.

5.4 Reporting

Reporting requirements and responsibilities are documented in Section 7.5 of the CEMP.

5.5 Documentation and Communication

5.5.1 Document Control

Document control requirements have been specifically addressed in Section 8.2 of the CEMP.

5.5.2 Review

In accordance with the General Requirements of the CEMP, this CVMP must also be updated and revised on the basis of changes to construction vehicle management.

Updates will be reviewed and approved prior to issue. Revisions of this CVMP are numbered consecutively and issued to holders of controlled copies.

Revisions to this CVMP may also be required during the Project to reflect changing circumstances or identified deficiencies. Revisions may result from:

- Management Reviews
- Audits (either internal or by external parties)
- Complaints or non-conformance reports
- Changes to the Companies standard systems.

5.5.3 Communication

All internal and external communication with all stakeholders including the public, Coordinator-General, government agencies and the Delivery Authority must be done in accordance with the Communications and Stakeholder Engagement Management Plan Section 5.3.1

Appendix A

Requirements Verification Traceability Matrix

Annex D Requirements

DOORS Requirement ID	PSTR ID	Ref. Section (Annex D)	Requirement Description	Design Evidence ID	Design Evidence (Sections)	V&V Status	Reviewer	Additional Comments
26374			4.2 Construction Management Plan					
26429		4.2.7	The Construction Management Plan must include the Construction Traffic Management Plan (CTMP) and Construction Traffic Management Plan subplans, a TBM Management Plan, and a Haulage Management Plan prepared in accordance with the requirements of PSTR Annexure C.	EVI-118228	CRRTSD-TM-MPL-CBGU-000013	Passed	B Mclean	Specifically, 4.2.2 of OEMP
26895			6.1. Environment Requirements					
26896		6.1.1	Project Co must ensure that the environmental outcomes for the T&S Works are achieved by implementing the requirements of the State Approval including environmental design requirements of the Coordinator-General's Change Report and the requirements of the OEMP including all sub-plans for the CRR Project without requiring significant changes to the standard operating protocols and procedures used to control daily operation.	EVI-118229	CRRTSD-TM-MPL-CBGU-000013	Passed	B Mclean	

CG Conditions

DOORS Requirement ID	PSTR ID	Ref. Section (Annex D)	Requirement Description	Design Evidence ID	Design Evidence (Sections)	V&V Status	Reviewer	Additional Comments
29290			Condition_14. Traffic and transport					
29295		(e)	Heavy construction vehicles use only designated routes for spoil haulage and deliveries of major plant, equipment and materials, in accordance with the Construction Environmental Management Plan. The designated haulage routes for each worksite must follow major or arterial roads to the extent practicable and be developed in consultation with the Department of Transport and Main Roads and the Brisbane City Council in preparation of the Construction Environmental Management Plan.	EVI-118230	CRRTSD-TM-MPL-CBGU-000013 Section 2.3	Passed	B Mclean	