Cross River Rail Project

Monthly Environmental Report

January 2022

Table of Contents

Executive Summary

This Monthly Environmental Report (MER) has been produced for Project Works undertaken on site for January 2022 for the Rail, Integration and Systems (RIS), and Tunnel, Stations and Development (TSD) packages. The report addresses the obligations outlined in the Coordinator-General's change report – *Coordinator-General's change report – no. 12 (January 2022)* and the individual contractor's Construction Environmental Management Plans (CEMPs) which have been developed generally in accordance with the Project's Outline Environmental Management Plan (OEMP). The Cross River Rail Delivery Authority (Delivery Authority), as the Proponent of the Cross River Rail Project, is required to submit a monthly report to the Coordinator-General to demonstrate compliance with the imposed conditions.

Section 1 of this report provides a background to the project and the Coordinator-General's conditions. Section 2 provides a review of the contractor's reports contained in **Appendix A** (RIS Monthly Report) and **Appendix B** (TSD Monthly Report).

The Environmental Monitor (EM) has reviewed and endorsed this MER. This endorsement follows ongoing and new document reviews, and surveillance across the relevant project worksites.

The CEMPs prepared by both Unity Alliance (RIS Contractor) and CBGU JV on behalf of Pulse (TSD Contractor) for their Relevant Project Works were endorsed by the EM and submitted to the Coordinator-General in accordance with Condition 4 (a) and 4 (b) respectively.

The table below presents a summary of compliance status against each condition with a short comment for each:

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
1.	**General conditions** – compliance with the Project Changes relevant to the contractor's scope	Yes	The CEMP and site management plans are in accordance with the Project Changes.
2.	**Outline Environmental Management Plan** – timely submission to the Coordinator-General including required sub-plans	Yes	OEMP dated June 2020 is effective for the reporting period.
3.	**Design** – achievement of the Environmental Design Requirements	NA	Ongoing progress with design packages.
4.	**Construction Environmental Management Plan** – all relating to Relevant Project Works.	Yes	RIS – CEMP Revision 10 covering full scope of RIS works is effective from 29 April 2021. TSD – CEMP Revision 8 covering full scope of TSD works is effective from 9 June 2021.
5.	**Compliance and Incident management** – Non-compliance events, notifications and reporting.	Yes	There were no non-compliance events (NCEs) in January 2022. Refer to Section 2.5 of this report.

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
6.	**Reporting** – Monthly and Annual reporting.	Yes	This MER, including RIS and TSD Monthly Reports, has been submitted in accordance with the conditioned requirements. Refer to **Appendix A** and **Appendix B**.
7.	**Environmental Monitor (EM)** – engaged and functions resumed.	Yes	Ongoing weekly site inspections and document reviews continue to take place.
8.	**Community Relations Monitor (CRM)** – engaged and functions resumed	Yes	Ongoing.
9.	**Community Engagement Plan** – developed and endorsed by Environmental Monitor.	Yes	CEMPs endorsed with Community Engagement Plan.
10.	**Hours of work** – Project Works undertaken during approved hours.	Yes	Project Works have been undertaken in accordance with project requirements. This has been achieved through Standard working hours, Extended work hours and Managed Work.
11.	**Noise** – Project Works must aim to achieve internal noise goals for human health and well-being.	Yes	Noise monitoring met project noise requirements at Sensitive Places. RIS – There were no noise sensitive activities that triggered noise monitoring or required monitoring to validate the predictive model. Refer to **Appendix A** (Table 4 and Section 3.1.1). TSD – Noise monitoring was undertaken to validate predicted noise modelling and for stakeholder enquiries. Noise monitoring confirmed the contractor met project requirements. Refer to **Appendix B** (Table 3 and Section 3.2).
	Vibration – Project Works must aim to achieve vibration goals for cosmetic damage, human comfort and sensitive building contents.	Yes	Vibration monitoring met project vibration requirements at Sensitive Places. RIS – There were no vibration sensitive activities that triggered vibration monitoring or required monitoring to validate the predictive model.. Refer to **Appendix A** (Table 5 and Section 3.1.3). TSD – Vibration monitoring was undertaken to validate predicted vibration modelling. The TSD contractor confirmed the monitoring results met project goals. Refer to **Appendix B** (Table 2 and Section 3.1).

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
12.	**Property damage** – relating to ground movement.	Yes	RIS – Vibration modelling has been undertaken for Relevant Project Works and Property Damage Sub-plans have been developed and implemented. Pre-condition surveys have been completed at heritage, commercial and residential buildings at RNA, Northern Corridor and Fairfield to Salisbury stations. TSD – Vibration modelling has been prepared and is ongoing. Where required, building condition survey reports are completed for heritage and residential buildings. No enquiries relating to property damage were received during January.
13.	**Air quality** – Works must aim to achieve air quality goals for human health and nuisance.	Yes	Air quality monitoring met Project air quality goals. RIS – Refer to **Appendix A** (Tables 7, 8 and Section 3.2, and Figures 1, 2 and 3). TSD – Refer to **Appendix B** (Tables 4 and 5 and Sections 3.3.1 and 3.3.2).
14.	**Traffic and transport** – Works must minimise adverse impacts on road safety and traffic flow.	Yes	Traffic Management Plans are covered in the CEMPs. Sub-plans for all active worksites have been reviewed by the EM.
15.	**Water quality** – Works must not discharge groundwater from the construction site above the relevant environmental values and water quality objectives. Monitor and report on water quality in accordance with CEMP and Sub-plans.	Yes	Monitoring and reporting on groundwater and surface water quality was undertaken in accordance with RIS and TSD Water Quality Management Plans. RIS – No groundwater discharges occurred. Bi-annual wet season routine surface water quality monitoring was undertaken in the receiving waters at Mayne Yard, Northern Corridor and Clapham Yard worksites. Post-rainfall monitoring was triggered at Mayne Yard with erosion and sediment control (ESC) inspections undertaken in accordance with ESC Plan. Refer to **Appendix A** (Table 10 and Section 3.3.2 and 3.3.5) for results. TSD – In January, active discharge of groundwater occurred from Roma Street, Albert, Woolloongabba and Boggo Road worksites. Monitoring results of groundwater quality prior to discharge is consistent with the pre-construction water quality levels.

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
			Active discharge of surface water occurred at the Northern Portal worksite on 27 occasions. Results met water quality discharge criteria. Routine in stream monthly monitoring met project water quality requirements. Refer to **Appendix B** (Table 6) for ground water monitoring results. Refer to **Appendix B** (Tables 7 and 8) for surface water monitoring results.
16.	**Water resources** – Evaluate potential impact, plan works, implement controls and monitor inflow of groundwater associated with drawdown.	Yes	RIS – There is no sustained groundwater extraction involved in the RIS scope of works so predictive modelling of groundwater drawdown is not required. Collection of hydrological data to model potential inflow rates into excavations during construction has been undertaken. TSD – Inflow of groundwater into the worksites is being continously monitored to validate the predictive modelling.
17.	**Surface water** – Must be designed to avoid inundation from stormwater due to a 2-year (6hr) ARI rainfall event and flood waters due to a 5-year ARI rainfall event and constructed to avoid afflux or cause the redirection of uncontrolled surface water flows, including stormwater flows, outside of worksites.	Yes	Contractors continue to consider this condition in their site planning and design.
18.	**Erosion and sediment control** – Provisions for erosion and sediment control must be consistent with the Guidelines for Best Practice Erosion and Sediment Control (International Erosion Control Association, 2008) and the Department of Transport and Main Roads' Technical Standard MRTS52.	Yes	Site specific ESC plans for all active work sites have been reviewed by the EM and implemented on site.
19.	**Acid sulfate soils** – managed as per the Queensland Acid Sulfate Soil Technical Manual.	Yes	Acid Sulfate Soil Management Plans have been prepared and implemented for all active worksites.
20.	**Landscape and open space** – general requirement to minimise impacts on landscapes and open space values and specific requirements around Victoria Park.	Yes	The construction of a temporary access road through Victoria Park was undertaken under a Heritage Exemption Certificate approved by the Department of Environment and Science (DES) on 24

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
			June 2021. Consideration has been taken to minimise loss of trees and the area of park impacted during these temporary works.
21.	**Worksite rehabilitation** – worksites rehabilitated as soon as practicable upon completion of works or commissioning, and in consultation with Brisbane City Council.	NA	N/A

Non-Compliance Events

There were no NCEs raised in January 2022.

Definitions

Acronym	Definition
ARI	Average Recurrence Interval - The average or expected value of the periods between exceedances of a given rainfall total accumulated over a given duration.
CEMP	Construction Environmental Management Plan
CGCR	Coordinator-General's Change Report
CRM	The Community Relations Monitor engaged in accordance with Imposed Condition 8
Contractor	The contractors appointed to design, construct, and commission the Project
Coordinator-General	The corporation sole preserved, continued, and constituted under section 8 of the SDPWO Act.
CRR	Cross River Rail
DES	Department of Environment and Science
EIS	Environmental Impact Statement
EM	The Environmental Monitor engaged in accordance with Imposed Condition 7
ESC	Erosion and sediment control
IECA	International Erosion Control Association
Imposed condition/s	A condition/s imposed by the Coordinator-General under section 54B of the SDPWO Act for the Project
MER	Monthly Environment Report
MRTS52	Transport and Main Roads Specifications MRTS52 Erosion and Sediment Control
NCE	Non-Compliance Event
OEMP	Outline Environmental Management Plan
Project	The Cross River Rail Project
Project Works	As defined in the Imposed Conditions
Proponent	The Cross River Rail Delivery Authority
RfPC	Request for Project Change
RIS	Rail, Integration and Systems
SDPWO Act	*State Development and Public Works Organisation Act 1971*
Sub-plan	Any sub-plan of the CEMP
The Delivery Authority	The Cross River Rail Delivery Authority
TSD	Tunnel, Stations and Development

1. Introduction

1.1. Background

The Cross River Rail Project (the Project) is a declared coordinated project under the *State Development and Public Works Organisation Act 1971* (SDPWO Act). The CRR Environmental Impact Statement (EIS) was evaluated by the Coordinator-General who recommended the Project proceed, subject to Imposed Conditions and recommendations. Since the evaluation of the EIS, several Requests for Project Change (RfPC) submissions have been evaluated by the Coordinator-General. RfPC 12 was endorsed in January 2022 by the Coordinator-General.

The Coordinator-General has imposed conditions on the Project that apply throughout the design, construction, and commissioning phases. These are referred to as the Imposed Conditions. In addition, the Coordinator-General has approved the Project's OEMP which outlines the environmental management framework for the Project. The OEMP includes environmental outcomes and performance criteria which must be achieved for the Project.

Imposed Conditions 5 and 6 nominate the compliance and reporting requirements for the Project. This monthly report addresses these requirements.

1.2. Project Delivery

The Delivery Authority is responsible for planning and delivering the Project. The Project established environmental management plans and secured some of the secondary environmental approvals in addition to enabling works.

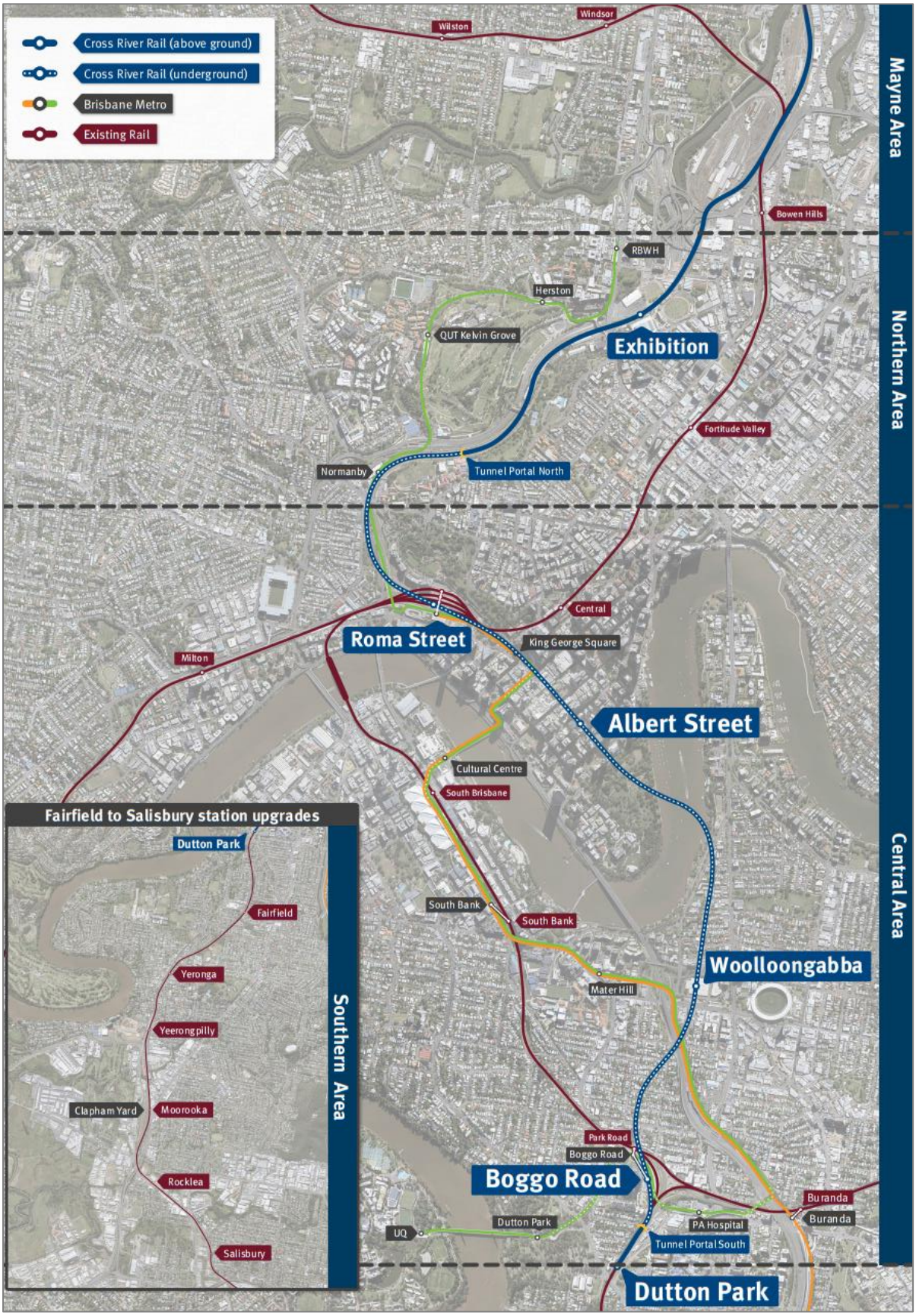
The two main delivery packages which require reporting under the Coordinator-General's imposed conditions are:

- Tunnel, Stations and Development (TSD) being delivered by CBGU JV; and
- Rail, Integration and Systems (RIS) being delivered by Unity Alliance.

The Project is geographically divided into four areas:

- Mayne Area;
- Northern Area;
- Central Area; and
- Southern Area.

These are shown in the figure over.


Cross River Rail (above ground)
Cross River Rail (underground)
Brisbane Metro
Existing Rail
Mayne Area
Northern Area
Central Area
Southern Area
Windsor
Wilston
Bowen Hills
RBWH
Herston
QUT Kelvin Grove
Exhibition
Fortitude Valley
Normanby
Tunnel Portal North
Central
Roma Street
King George Square
Milton
Albert Street
Cultural Centre
South Brisbane
South Bank
South Bank
Woolloongabba
Mater Hill
Park Road
Boggo Road
Boggo Road
Buranda
Buranda
PA Hospital
Dutton Park
UQ
Tunnel Portal South
Dutton Park
Fairfield to Salisbury station upgrades
Dutton Park
Fairfield
Yeronga
Yeerongpilly
Clapham Yard
Moorooka
Rocklea
Salisbury

1.3. Reporting Framework

This MER has been prepared to comply with Imposed Conditions 6 and 7 of the Coordinator-General Change Report (CGCR) and includes:

- monitoring data and associated interpretation of the results required by the imposed conditions and Construction Environmental Management Plan (CEMP);
- details of any NCE's, including incidents, corrective actions, and preventative actions; and
- details of any complaints, including description, responses, and corrective actions.

Reporting on environmental elements captured in each monthly environmental report, including the annual environmental report, will be reviewed, and endorsed by the EM.

1.4. Monthly Environment Report Endorsement

This MER has been endorsed by the EM and the endorsement provided to the Coordinator-General.

2. Compliance Review

This MER has been reviewed and endorsed by the EM as per Imposed Condition 7 of the CGCR.

2.1. Relevant Project Works

The following Project Works were undertaken in January 2022:

Area	Project Works
Mayne Area	**Mayne Yard North –** • Mayne Yard North capping and tamping of roads completed; • Wick drains completed and preload to Southern embankment of BR08 commenced; • OHLE structure installation ongoing; • Breakfast Creek Bridge temporary works rock platforms complete; • Crew Change Building external works nearing completion • Graffiti Removal Facility structural steel installation complete; • Tripod Bridge (BR11/13) blade wall FRP nearing completion; and • Ferny Grove Flyover pier protection FRP scope nearing completion.
Northern Area	**RNA/ Northern Corridor** • Sneyd Street drainage nearing commissioning; • BR43 western viaduct FRP works ongoing; • Electrical relocation work on eastern corridor nearing completion; and, • RW260 backfilling ongoing. **Northern Portal –** • TBM Extraction ongoing; • Deck slab 100% poured with waterproofing ongoing; and • Ongoing excavation of dive structure.
Central Area	**Roma Street** – • Services building Level B4 suspended slab poured and B4 to B5 precast wall installation complete; • Station building excavation and retention works complete, cavi drain works complete and lift and escalator overruns 2 of 4 complete; • Station cavern invert slab, kickers and waterproofing ongoing, adit RA6 service trench excavation ongoing; and

Area	Project Works
	• Inner Northern Busway (INB) underpinning works in progress with 6 of 9 columns complete.
	Albert Street – • Lot 1 – station box excavation and ground retention continues, final row of anchors completed; • Lot 2 –Drill and blast of bench complete and excavation recommenced; and • Lot 3 – excavation continuing (~51% complete), and ongoing ground retention (~65% complete).
	Woolloongabba – • Station jump form system lift 13 reinforcement fixing; • Climbtrack system on external walls on final lift before removal; • Southern cavern internal structure works ongoing; • Northern cavern invert formwork, reinforcement, and concrete Pouring (FRP) works ongoing, headwall works and waterproofing ongoing; and • Strip out of conveyor structure in station box commenced.
	Boggo Road – • Northern cavern waterproofing complete, and 9 of 10 permanent lining arch pours complete; • Steel fixing ongoing for Wall 32 (northern wall), lift pit, sump, and base slab (central area); and • Level B7 concrete slabs commenced.
	Southern Portal – • Detailed excavation and shotcrete within cut and cover trough ongoing (83% complete); • Sewer and stormwater micro tunnelling towards Shaft 1 on Railway Terrace and Shaft 8 on Kent Street achieved, 81% of overall micro tunnelling completed; • Piling, breakback and blinding layers in Zone B and C are complete; • Dual gauge retaining wall complete; and • Ongoing piling in Zone E with two piling rigs in operation.
Southern Area	**Dutton Park** – • Nil **Yeronga Station –** • Platform 1 FRP works complete; • Platform 1 canopy structural steel and roof sheeting installed; • Rail drainage undertrack crossing complete; and • Retaining wall Stage 1 complete. **Fairfield Station** – • Site establishment including minor vegetation clearing; and • Platform 3 precast retaining wall installation ongoing. **Clapham Yard** – • Earthworks in rail siding area commenced; • Piling on retaining wall RW265 completed; • Piling of retaining wall RW260 commenced; • Under-bore for Energex relocation ongoing; and • Water main encasement commenced.

2.2. Key Environmental Elements

2.2.1. Noise

The Coordinator-General's conditions establish a framework for managing the impacts of noise. The Imposed Conditions do not establish noise limits. Compliance with the Imposed Conditions noise requirements involves demonstrating the implementation of the endorsed CEMP and associated Noise and Vibration Management Plan. This establishes the management measures to be applied which aims to achieve the identified noise goals as far as reasonably practicable. The CEMP also includes requirements for the provision of the required community notifications of upcoming work, potential impacts, and how the project team can be contacted in relation to any potential impacts.

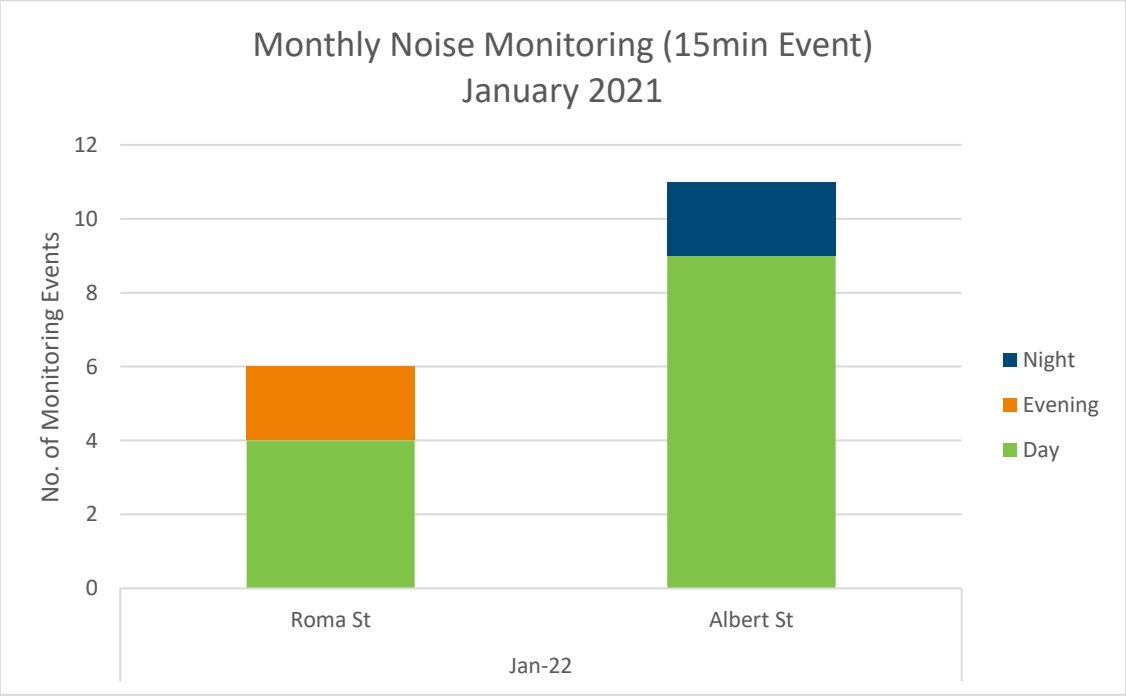
For Project Works where potential noise impacts are modelled to be above the noise goal but below the noise goal plus 20dBA, this work is authorised where the endorsed CEMP and associated Noise and Vibration Management Plan is being implemented, including communicating construction activities to potential and actual Directly Affected Persons (DAPs). For Project Works where potential noise impacts are predicted to be more than 20dBA above the relevant noise goal, specific engagement is required with DAPs for these works.

Where internal monitoring was not possible, contractors have undertaken external monitoring at nominated locations. To determine compliance with the project's noise requirements and to calibrate modelled predictions the project applies recommended façade attenuation corrections, which consider receiver property type.

Noise monitoring at Mayne, Northern and Southern Areas was not triggered.

In the Central Area, noise monitoring was undertaken to validate predictive modelling at Sensitive Places close to the project worksites and in response to noise enquiries and complaints. Monitoring results for the Central Area are detailed in **Appendix B** (Table 3). The TSD contractors reported that the project noise requirements have been met during this reporting month.

A summary of noise monitoring events for the month is provided in the chart below.



2.2.2. Vibration

Vibration monitoring at Mayne, Northern and Southern Areas was not triggered.

In the Central Area, vibration monitoring took place to validate predictive modelling for controlled blasting at Roma Street and Albert Street. The reported results met the project goals. Vibration monitoring results for the Central Area are detailed in **Appendix B** (Table 2).

2.2.3. Air Quality

2.2.3.1. Dust Deposition

Dust deposition monitoring was conducted at Mayne, Northern, Central and Southern Area and results met the project air quality goal[1] for all active worksites. Dust deposition results are detailed in **Appendix A** (Table 7) and **Appendix B** (Table 4)

A summary of dust deposition monitoring is provided in the table below.

Air Quality – Dust Deposition Monitoring			
Area	**Worksite**	**Monitoring Location**	**Comments**
Mayne Area	Mayne Yard	Mayne Yard	- Results met air quality goal.
Northern Area	RNA / Exhibition	RNA Showgrounds	- Results met air quality goal.
	Northern Portal	Northern Portal (near Brisbane Girls Grammar School)	- Results met air quality goal.
Central Area	Albert Street	Mary Street	- Results met air quality goal.
		Elizabeth Street	- Results met air quality goal.
	Boggo Road	Quarry Street (north of the site)	- Results had not been received at the completion of the report and will be included in the February Report 2022.
		Peter Doherty Street/Leukemia Foundation	- Results had not been received at the completion of the report and will be included in the February Report 2022.
	Southern Portal	Dutton Park Station	- Results had not been received at the completion of the report and will be included in the February Report 2022.
		PA Hospital - Central Energy Unit along Kent Street	- Results had not been received at the completion of the report and will be included in the February Report 2022.
	Roma Street	Roma Street Station	- Results met air quality goal.
	Woolloongabba	Russian Orthodox Cathedral	- Results met air quality goal.
		Woolloongabba Busway	- Results met air quality goal.

[1] CG air quality goal for dust deposition - 120µg/m^2 (over an averaging period of 30 days).

Air Quality – Dust Deposition Monitoring			
Area	**Worksite**	**Monitoring Location**	**Comments**
Southern Area	Clapham Yard	Clapham Yard	- Results met air quality goal.

2.2.3.2. Particulate Matter and Total Suspended Particulates

Monitoring for particulate matter (PM_{10}) and total suspended particulates (TSP) was conducted at Mayne, Northern, Central and Southern Area worksites. Results met the project goals at all active worksites.

The Woolloongabba air quality unit experienced technical difficulties and stopped functioning between 24-26 January 2022. The review of a nearby DES air quality monitoring station (South Brisbane) demonstrated PM_{10} levels between 24-26 January were compliant with project air quality goals.

Particulates results are detailed in **Appendix A** (Figure 2 and Figure 3) and **Appendix B** (Table 5)

A summary of particulate monitoring is provided in the table below.

Air Quality – PM_{10} / TSP Monitoring			
Area	**Worksite**	**Monitoring Location**	**Comments**
Mayne Area	Mayne Yard	Mayne Yard North	- Results met air quality goals.
Northern Area	RNA / Exhibition	RNA showgrounds	- Results met air quality goals.
	Northern Portal	Brisbane Girls Grammar School	- Results met air quality goals.
Central Area	Albert St	iStay River City and Capri (Corner of Mary Street and Albert Street)	- Results met air quality goals.
	Boggo Rd / Southern Portal	North-east of Boggo Road worksite	- Results met air quality goals.
	Roma St	Roma Street Station	- Results met air quality goals.
	Woolloongabba	Place Park, Woolloongabba	- Results met air quality goals. - Monitoring unit experienced a technical fault with no results between 24-26 January.
Southern Area	Clapham Yard	Clapham Yard	- Results met air quality goals.

2.2.4. Water Quality

Water quality monitoring and reporting was undertaken in accordance with the Project's Water Quality Management Plans.

2.2.4.1. Surface Water

Post rainfall monitoring was triggered at Mayne and Northern Area worksites, and active surface water discharges occurred from the Northern Portal site during dewatering.

At Mayne Yard post rainfall monitoring was triggered on 26 January after 24mm of rainfall over 24 hours. Post rainfall site inspections confirmed that erosion and sediment controls were maintained with no evidence of stormwater run-off from construction activities leaving site. In stream water quality monitoring at Breakfast Creek was not undertaken due to the low risk of surface water discharge from site.

In the Northern Area water quality monitoring was triggered at RNA Showgrounds on 10 December 2021 to support active dewatering of treated stormwater run-off that was to be discharged to a live stormwater system. Water quality met project water quality discharge criteria. See **Appendix A** (Table 10) for further details. At the Northern Portal site water quality monitoring was triggered on 27 occasions as water used for washing down the TBM components and stormwater runoff was treated and actively discharged to the stormwater network. Water quality met project water quality discharge criteria. See **Appendix B** (Table 7) for further details.

Routine surface water quality monitoring was undertaken in the receiving waters of all TSD worksites in accordance with the Contractor's Water Quality Management Plan. The monitoring results reflect the condition of a broader catchment upstream from the worksites.

Routine biannual surface water quality monitoring was undertaken in the receiving waters of Mayne Yard, Northern Corridor and Clapham Yard worksites in accordance with the Water Quality Management Plan.

Surface water quality monitoring is summarised in the table below:

Surface Water Quality Monitoring					
Area	**Worksite**	**Discharge**	**Post-Rain Monitoring**	**Routine Monitoring**	**Comments**
Mayne Area	Mayne Yard North	No	Yes	No	- Post-rainfall monitoring was triggered. In-situ water quality monitoring was not undertaken due to the low risk of discharge from site. - ESC was implemented in accordance with site specific ESC Plan.
Northern Area	Northern Portal	Yes	No	Yes	- Active surface water discharge met water quality investigation criteria.
	Northern Corridor	No	No	Yes	- Routine biannual in-stream monitoring undertaken in accordance with WQMP.
	RNA/Exhibition	No	No	N/A	- Monitoring not triggered
Central Area	Albert Street	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.
	Boggo Road	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.
	Roma Street	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.
	Woolloongabba	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.
	Southern Portal	No	No	Yes	- Routine in-stream monitoring undertaken in accordance with WQMP.

Surface Water Quality Monitoring					
Area	**Worksite**	**Discharge**	**Post-Rain Monitoring**	**Routine Monitoring**	**Comments**
Southern Area	Clapham Yard	No	No	Yes	- Routine biannual in-stream monitoring undertaken in accordance with WQMP.

2.2.4.2. Groundwater

There were no groundwater discharges at Mayne, Northern or Southern Area worksites.

Groundwater discharge occurred in the Central Area at Roma Street, Albert Street, Woolloongabba, and Boggo Road worksites. Groundwater discharge results exceeded relevant water quality objectives (WQO's)[2] for total nitrogen, ammonia nitrogen, oxidised nitrogen, organic nitrogen, dissolved oxygen, and total phosphorus However, these results are consistent with the receiving environment baseline monitoring pre-construction data except for Albert Street and Roma Street which both recorded total nitrogen levels well above the baseline monitoring pre-construction data. It is not uncommon for high levels of water quality parameters to be identified in groundwater monitoring. Given the sites are located in highly urbanised inner-city settings, there are many influences on groundwater external to the project. The contractor confirmed no changes have occurred onsite to the construction methodologies that would have affected the groundwater results.

Groundwater Quality Monitoring			
Area	**Worksite**	**Discharge**	**Comments**
Mayne Area	Mayne Yard North	No	- No groundwater discharges.
Northern Area	RNA/Exhibition	No	- No groundwater discharges.
	Northern Portal	No	- No groundwater discharges.
Central Area	Albert Street	Yes	- Discharge of groundwater did not meet Project WQO's but was generally consistent with pre-construction conditions except for nitrogen parameters. Given the sites are located in highly urbanised inner-city settings, non-project related infrastructure issues (i.e., sewer leaks) can influence the groundwater quality. The contractor confirmed no changes have occurred onsite to the construction methodologies that would have affected the groundwater results.
	Boggo Road / Southern Portal	Yes	- Groundwater discharge (dewatering). - Discharge of groundwater did not meet Project WQO's but was generally consistent with pre-construction conditions.
	Roma Street	Yes	- Groundwater discharge (dewatering). - Discharge of groundwater did not meet Project WQO's but was generally consistent with pre-construction conditions except for nitrogen parameters. Given the sites are located in highly urbanised inner-city settings, non-project related infrastructure issues (i.e., sewer

[2] The Brisbane River Estuary environmental values and water quality objectives (Basin no 143 – mid-estuary) in the Environmental Protection (Water) Policy 2009.

Groundwater Quality Monitoring			
Area	**Worksite**	**Discharge**	**Comments**
			leaks) can influence the groundwater quality. The contractor confirmed no changes have occurred onsite to the construction methodologies that would have affected the groundwater results.
	Woolloongabba	Yes	- Groundwater discharge (dewatering). - Discharge of groundwater did not meet Project WQO's but was generally consistent with pre-construction conditions.
Southern Area	Clapham Yard	No	- No groundwater discharges.

2.2.5. Erosion and Sediment Control

Site specific Erosion and Sediment Control (ESC) Plans have been prepared, updated, and implemented at Mayne Yard, Northern Portal, RNA Showgrounds, Roma Street, Albert Street, Woolloongabba, Boggo Road, Southern Portal, Yeronga, Fairfield, and Clapham Yard worksites.

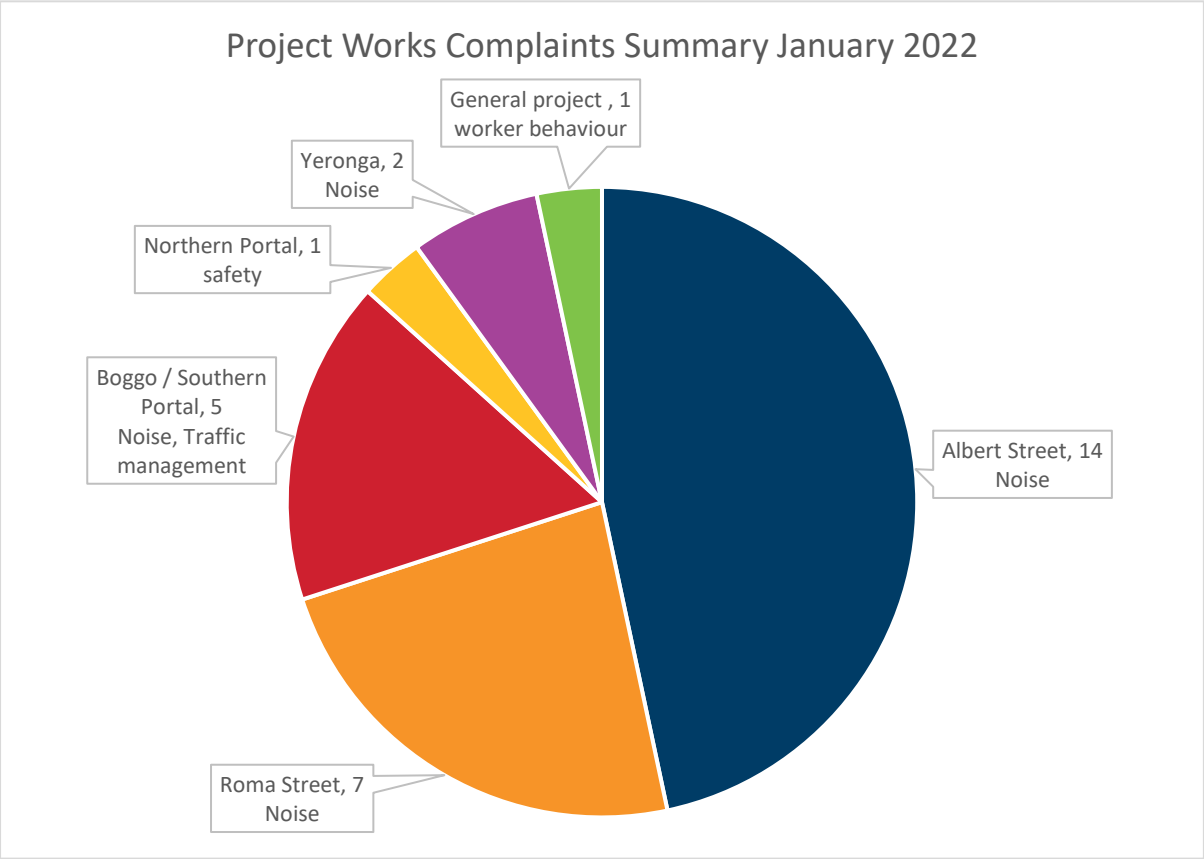
2.3. Complaints Management

A total of 31 complaints were received during the month, of which one was not related to Project Works.

RIS works received 2 complaints this month related to works at Yeronga worksite. For further details refer to **Appendix A** (Table 3).

TSD activities received 28 complaints related to Project Works at Northern Portal, Roma Street, Albert Street, and the Southern Portal worksites. Of these, 14 complaints were related to noise from works occurring from the Albert Street site, mostly during non-standard hours. For further details refer to **Appendix B** (Table 11).

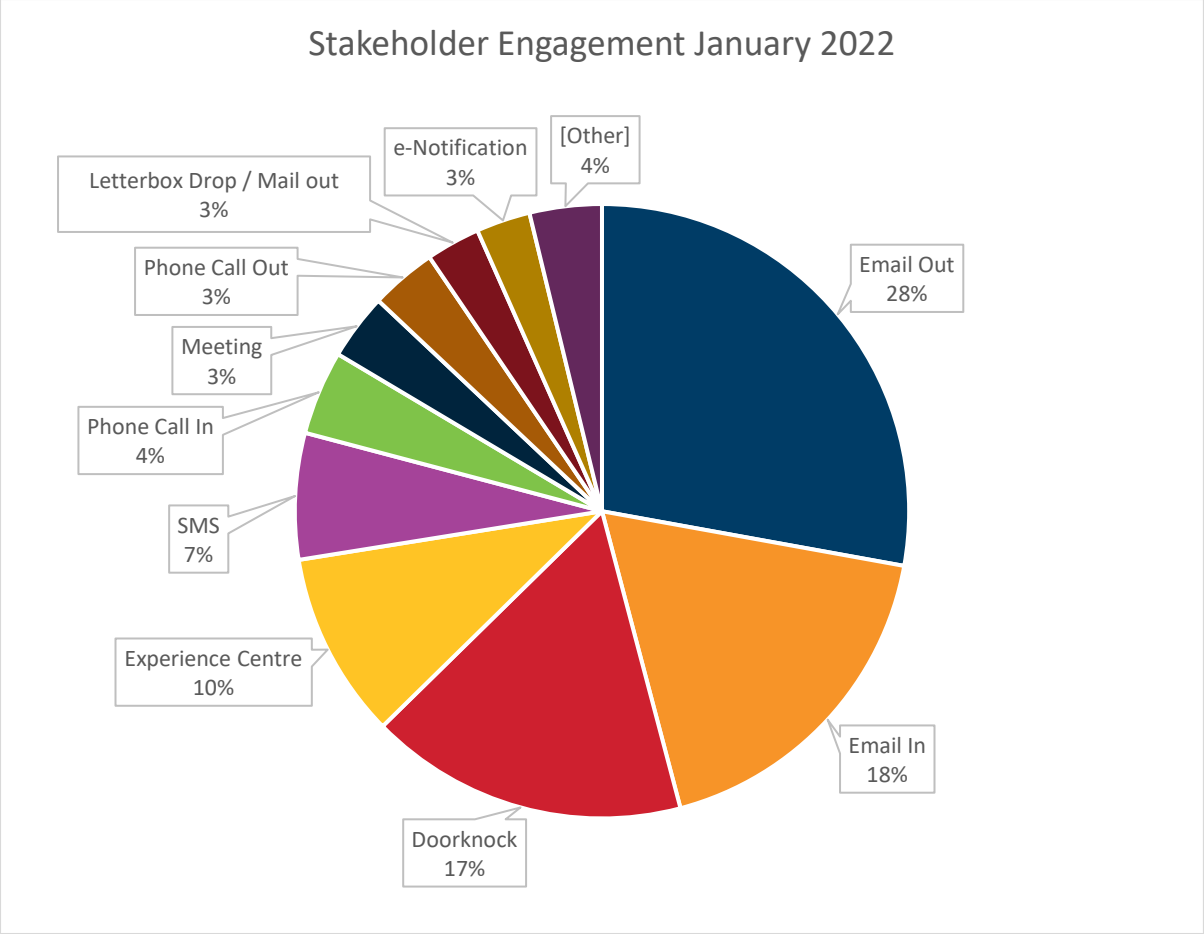
The Project Works complaints summary for the month is provided in the following chart.



Where attended noise monitoring was undertaken in response to a complaint, the contractor confirmed on all occasions that works undertaken at the time of the complaint adhered to project requirements. In some instances, previous attended noise monitoring data, representative of the relevant construction activities was used to confirm the works adhered to the project noise requirements.

To close out a complaint, the monitoring data is reviewed (where applicable) against compliance with the CEMP, site environmental management plans and permits, and checks that required community notification has taken place. Contractors have also confirmed that planned mitigation to reduce the impact was implemented. This is reviewed together to verify if project requirements have been met.

For scheduled out of hours works, community notification was provided, as well as regular project updates. Stakeholder engagement undertaken on the project during the month is summarised in the chart below.



2.4. New Upcoming Project Works

The key new planned Project Works for the coming months include:

Area	New planned works in the coming months
Mayne Area	**Mayne Yard North** – • Breakfast Creek Bridge – piling works; and • Civil and structural works ongoing.
Northern Area	**RNA/ Northern Corridor** – • BR29 (O'Connell Tce pedestrian bridge western abutment construction); • RNA Substation works; • Victoria Park Feeder Station early works; • Water main relocations under Bowen Bridge Rd; • Western viaduct structural works ongoing; and • OHLE foundation installation. **Northern Portal** – • All TBM components planned to be removed by mid-April 2022; • Destressing of anchors from temporary retention piles and backfilling of material onto the deck units to commence at the completion of the waterproofing works; and • Gantry crane removal in late-April.
Central Area	**Roma Street** – • Station box permanent cavern lining early-April; and

Area	New planned works in the coming months
	• Passenger adit excavation including controlled blasting commencing in March. **Albert Street** – • Lot 1 – Excavation completion in late-March; • Lot 2 – Completion of excavation and retention works in April; and • Lot 3 – Completion of excavation and ground retention in May. **Woolloongabba** – • Back of house lift 13 pour in February 2022; • Services building piling to commence on late-February; • Northern cavern headwall pour in February; and • Arch form moved to northern cavern in late-February. **Boggo Road** – • Northern Cavern permanent lining arch pour 10 of 10 planned for February 2022; • Wall 32 pour planned for February 2022; and • Walls 4, 11 and 13 planned in February. **Southern Portal** – • Portal dive structure base slab installation to occur in March; • Demolition of old SER in February 2022; and • Reinstatement of the Dual gauge track and overhead line in March.
Southern Area	**Yeronga Station** – • Temporary works (fencing and ticket office installation) in preparation of reopening; and • Platform 2 and 3 canopy installation. **Dutton Park** – • Geotechnical and services investigations. **Clapham Yard** – • BR94 (Chale St Bridge) remove and replace earthworks; and, • Moolabin Creek temporary works including vegetation removal under Riverine Protection Permit.

2.5 Non-Compliance Events

No new NCEs have been raised this month. The summary of NCEs to date is shown in the table below.

Status	Date of event	Category	Area as on the Report	Conditions affected	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
⊞ **Open**									
⊟ **Closed**									
CRRDA-001-RIS-001	11/09/19	Noise	Yeronga Station	4, 10, 11	11/10/19	14/11/19	26/11/19	18/12/19	01/10/20
CRRDA-002-TSD-001	27/03/20	ESC	Woolloongabba	4, 15, 18	30/03/20	31/03/20	22/04/20	06/11/20	31/05/20
CRRDA-003-TSD-002	27/03/20	ESC	Boggo Rd	4, 15, 18	30/03/20	31/03/20	22/04/20	06/11/20	31/05/20
CRRDA-005-TSD-004	27/03/20	Reporting	Albert St, Boggo Rd, Roma St, Woolloongabba	4, 6, 11, 13	30/03/20	31/03/20	22/04/20	06/11/20	31/05/20
CRRDA-006-TSD-005	27/03/20	Air Quality	Albert St, Boggo Rd, Roma St, Woolloongabba	13	30/03/20	31/03/20	22/04/20	06/11/20	31/05/20
CRRDA-004-TSD-003	28/03/20	Traffic	Boggo Rd	4, 10, 14	30/03/20	31/03/20	22/04/20	06/11/20	31/05/20
⊟ **Withdrawn**									
CRRDA-007-RIS-002	04/01/20	Air Quality	Mayne Yard, Victoria Park, Yeronga, Fairfield	13	28/04/20	30/04/20	Withdrawn		
CRRDA-008-TSD-006	04/08/20	Working Hours	Roma Street	4,10	28/04/20	30/04/20	Withdrawn		

Gate 1 - EM notification to contractor. NCE confirmed
Gate 2 - 48 hour NCE notification submitted to CG
Gate 3 - 14 day report submitted
Gate 4 - 14 day report uploaded to CRR website
Gate 5 - Records of mitigation / preventative measures submitted to the CG — Complete

Throughout construction activities, events and incidents are routinely investigated to verify compliance with the Imposed Conditions and to verify that management and mitigation measures are implemented in accordance with CEMP and sub-plans.

Appendix A RIS Monthly Report

Monthly CGCR Report January 2021

Cross River Rail – Rail, Integration and Systems Alliance

Assured Integration for a New Era

Table of Contents

1 Progress Summary - Relevant Project Works

The following Project Works were undertaken during the reporting period:

Table 1: Summary of Project Works completed during the reporting period

Area	Project Works
Mayne Area	• **Mayne Yard North** Graffiti Removal Facility - structural steel installation completed, and cladding commenced Crew Change Building external works nearing completion Pier Protection Ferny Grove Flyover (RC14) – FRP scope nearing completion Tripod Bridge (BR11/13) – Blade walls FRP nearing completion RSS Wall RW125 for BR11/13 has commenced Breakfast Creek Bridge (BR08) - temporary works rock platforms nearing completion for temporary jetty piling to commence CRR Lines – wick drains completed and embankment construction including Stage 1 preload commenced. Yard – capping within yard completed, crew change platform installation completed, Stabling Yard Fencing continues, Ballast, Sleeper & Rail Placement Road 6-11 Completed, OHLE Structure Installation ongoing, QR Tamper has currently completed roads 11-9 and working on Roads 8-6
Northern Area	• **RNA / Northern Corridor** RC22/23 Bowen Br pier protection completed with only containment bunds pending RW260 FRP completed Electrical relocation work on Eastern corridor side nearing completion BR43 FRP and Retaining wall RW210 continuing to schedule and Sneyd Drain nearing completion
Southern Area	• **Yeronga Station** Completion of Platform 1 FRP works scope Completion of Platform 1 canopy structural steel & roof sheeting Completion of retaining wall – Stage 1 Completion of rail drainage undertrack crossing Fabrication of all structural steel elements ready for installation. • **Fairfield Station** Completion of Fairfield Station Dual Gauge track lowering Installation of 60% of the Fairfield Station Platform 3 precast retaining wall • **Clapham Yard** Piling of RW635 completed and piling of RW620 commenced FRP of RW 635 commenced 11kV relocation commenced SEQ watermain encasement commenced Earthworks in Rail Siding area commenced

Acronyms:

CIP – Cast in Situ Piles
CSR – Combined Services Route
DL – Drainage Line
FRP – Form Reo Pour
HV – High Voltage
OHLE – Overhead Line Equipment
OTV – On Track Vehicle
PUP – Public Utility Plant
RNA - Royal National Agricultural and Industrial Association of Queensland
R&R – Remove and Replace
RSS - Reinforced Soil Slopes
RW – Retaining Wall
SCAS - Scheduled Corridor Access Schedule

UTX – Under Track Crossing

The following table summarises the upcoming Project Works:

Table 2: Summary of upcoming Project Works

Area	Project Works
Mayne Area	• **Mayne Yard North** RSS walls RW110 / 120 / 125 for Tripod Bridge BR11/13 and blade walls completion Graffiti Removal Facility trackslab and structural steel installation of pedestal structure Crew Change Building fit out and carpark construction Completion of Ferny Grove Fly-Over pier protection (excluding Pier 1) BR08 (Breakfast Ck Bridge) piling Sewer connection and sewer chamber lift within Abbotsford Road Yard - Signalling & pneumatic foundation construction, Road 5-3 Construction, Earthing and Bonding to commence once Tamping is completed on Roads 11-6.
Northern Area	• **RNA / Northern Corridor** Commence rock anchors under pedestrian BR29 (O'Connell Tce pedestrian bridge) BR29 (O'Connell Tce pedestrian bridge) western abutment construction RNA Substation works Sewer underbore at Landbridge S-200-06 to commence Victoria Park Feeder Station early works and inground services Watermain and sewer (QUU) relocation works under Bowen Bridge Road RC21 pier protection completion RW260 completion of backfill and edge protection FRP grated drains throughout corridor Commence OHLE foundations through corridor BR43 deck pours and installation of structural steel span 7 and 8 RW210 completion Sneyd Drain completion.
Southern Area	• **Yeronga Station** Station temporary works scope in preparation for re-opening 14-March Platform coping installation Fairfield Road West foundation works Platform 2/3 canopy installation. • **Fairfield Station** nil • **Dutton Park Station** Geotechnical and services investigations. • **Clapham Yard** Continue drainage and earthworks Complete piling for Retaining Walls RW620 and RW635 Commence Chale St BR94 Remove and Replace scope for RSS walls Commencement of Moolabin Creek BR93 temporary works inclusive of associated riparian vegetation clearing.

2 Complaints

The below section summarises the complaints relating to the Project Works to be reported in accordance with condition 6(b)(iii) of the CGCR.

Table 3: Summary of Complaints

Date Received	Location	Issue	Activity source of the concern	Period	Unity Response	Status
13/01/2022	Yeronga	Noise	Standard Hours and Extended Hours Concrete Pours	January 22	The stakeholder raised a noise complaint regarding the volume of the music played by the workforce during working hours. The Project team assured the stakeholder that the issue would be addressed with Site Supervisors and personnel. The issue was raised with the workforce at pre-start.	Closed
14/01/2022	Yeronga	Noise	Extended Hours Workforce Parking	January 22	The stakeholder raised a noise complaint regarding the noise created by the workforce parking in front of their property. The stakeholder sent the complaint by email, with images attached. From the images, the vehicles were identified as Queensland Rail vehicles, and did not belong to Unity employees. The Project team ensured the stakeholder that the complaint was forwarded on to Queensland Rail. Site Supervisors were also informed, and the issue was addressed at Pre-Start.	Closed

3 Environmental Monitoring Results

The below section summarises the monitoring results to be reported in accordance with condition 6(b)(i) of the CGCR.

3.1 Acoustics

Condition 11(b) of the CGCR requires that during construction, monitoring and reporting on noise and vibration in accordance with the Noise and Vibration Management Plan, a sub-plan of the Construction Environmental Management Plan (C-EMP) occurs.

3.1.1 Noise Monitoring

No noise intensive activities were scheduled to occur in the month of January that triggered the need to undertake noise monitoring.

Attended noise monitoring was not triggered based on the predictive noise assessments for the Relevant Project Works during the reporting period. There were no new noise intensive activities during the reporting period that required monitoring to validate the predictive model.

Two noise related complaints were received in the month of January. Monitoring was not undertaken in response to either complaint.

3.1.2 Noise monitoring Results

Nil for the reporting period

Table 4: Summary of Noise Monitoring Data

Location	Receiver Type Details	Type of Monitoring	Work Hours	Noise Type	Purpose of Monitoring	Predictive model (dBA)	Performance Goal 1 (dBA) (Condition 11(a), Table 2, $LA_{10/eq}$ noise goals)	Performance Goal 2 (dBA) – (Condition 11(c), Table 2 LA_{10} noise goal + 20dBA))	Measured LA_{10} (dBA)	Measured LA_{eq} (dBA)	DAP engagement prior to works	Is performance Goal exceeded?	Comments For interpretation, please refer to 3.1.5.1
NIL FOR THE REPORTING PERIOD													

- Note (1) - Monitoring Method
  - Note 2 of Imposed Condition 11 Table 2 states *Where internal noise levels are unable to be measured or monitored, the typical noise reductions presented in Guideline Planning for Noise Control, Ecoaccess, DEHP, January 2017 (PFNC) apply*.
  - The monitoring was undertaken to validate the model therefore external noise measurements are appropriate to determine the impact of construction noise.
- Note (2) – Façade Attenuation
  - Note 2 of Imposed Condition 11 Table 2 states *Where internal noise levels are unable to be measured or monitored, the typical noise reductions presented in Guideline Planning for Noise Control, Ecoaccess, DEHP, January 2017 (PFNC) apply*.
  - The PFNC guideline can no longer be accessed. The Department of Environment and Science (DES) website still states this guideline is under review and is yet to release an alternative guideline
  - Former revisions of the PFNC table 7 stated the following regarding typical noise reductions through the building façade:
    - 5 dB – Window wide open
    - 10 dB – Partially closed
    - 20 dB – Single glazed, closed
    - 25 dB – Thermal double glazing, closed
  - The RfPC-4 Technical Report considered that all receptors had closed external single glazing for the assessment of construction noise impacts.
  - The Queensland Ombudsman assessed this assumption for the Airport Link Project and recommended that 10dB be adopted for major infrastructure projects in Queensland[1].
  - Additionally, several acoustic studies have shown that 10 dB is a suitable assumption for open windows. Most importantly this requirement only applies to temporary rail works within the project footprint and does not apply to long-term operational rail noise exposure.
  - Accordingly, it is considered appropriate to consider a 10 dB reduction on this basis. This assumption can be used for predictive modelling and for noise measurements, where indoor noise measurements are not practicable.

3.1.3 Vibration Monitoring

There were no vibration intensive activities during the reporting period that triggered the need to undertake noise monitoring.

Complaint-based vibration monitoring was not triggered. No complaints related to vibration occurred during the reporting period.

Vibration monitoring to address property damage was not triggered by the predictive assessment.

3.1.4 Vibration Monitoring Results

Table 5 Summary of Vibration Data

Location	Date (Start and Finish)	Time of day	Closest DAP / Sensitive Place	Receiver Type (table 3 – Imposed Condition 11(e))	Purpose of Monitoring	Maximum predicted vibration Level (mm/s)	Maximum recorded vibration Level (mm/s)	Vibration goal for receiver (mm/s)	Exceedance of vibration limit?	Comments
NIL FOR THE REPORTING PERIOD										

3.1.5 Interpretation

3.1.5.1 Noise Monitoring[2]

The complaint received on 13 January regarding loud music and conversation at night was not received until the following day. As the event occurred during night shift the previous night, it was not possible to conduct attended noise monitoring.

Investigation into the 14 January complaint identified the vehicles that triggered the complaint were Queensland Rail vehicles and the complaint was therefore not project related.

The RIS scope of works achieved the outcomes set out by the CGCR and OEMP.

3.1.5.2 Vibration Monitoring

The RIS scope of works achieved the outcomes set out by the CGCR and OEMP

3.2 Air Quality

Imposed Condition 13(b) of the CGCR requires that during construction, monitoring, and reporting on air quality in accordance with the Air Quality Management Plan, a sub-plan of the C-EMP occurs.

Visual monitoring was undertaken during routine environmental inspections. A total of 25 inspections were undertaken by the environment team across Mayne Yard, RNA Showgrounds, Yeronga Station, Clapham Yard, and the Northern Corridor.

UNITY has installed the following air quality monitoring devices, therefore data collected from these devices, when active, is reported on in the monthly report regardless of the Project Works occurring.

Table 6: Summary of Air Quality monitoring devices

Monitoring Device Installed by UNITY	Area	Name	Date Installed	Status for the Reporting Period
Dust Deposition Gauge	RNA Showgrounds	AQ-01	13 December 2019	Active
Dust Deposition Gauge	Mayne Yard (Eastern Air Shed)	AQ-04	13 February 2020	Active
Dust Deposition Gauge	Clapham Yard (Eastern Air Shed)	AQ-06	1 February 2021	Active
Dust Deposition Gauge	Yeronga Station	AQ-07	12 August 2021	Inactive DDG was decommissioned on 10 December 2021 following the completion of earthworks
TSP / PM_{10} Monitor	Mayne Yard (Eastern Air Shed)	Mayne Yard	23 April 2020	Active
TSP / PM_{10} Monitor	Clapham Yard (Eastern Air Shed)	Clapham Yard	9 August 2021	Active from 10/01/22 DMP removed from site from 09/12/2021 to 10/01/2022 for off-site calibration
TSP / PM_{10} Monitor	RNA (Western Air Shed)	RNA	25 August 2020	Active

[2] All free field measurements are undertaken in accordance with the latest revision of the Noise Measurement Manual from the Department of Environment and Science (DES) reference ESR/2016/2195

3.2.1 Dust results

As passive dust deposition gauges (DDG) are analysed monthly, results span from 10 December 2021 to 11 January 2022. This is excluding Clapham Yard, which spans from 10 December 2021 to 17 January 2022.

The Clapham DDG is located on private property and was inaccessible over the Christmas holiday period.

The DDG was therefore left for an extended period of 38 days. As per AS/NZS 3580.10.1, section 7.3, *for routine monitoring programs, the period of exposure is 30±2 days.*

Although the Clapham Yard results are not considered a representative sample according to the Australian Standard, per the advice of the Project Certified Air Quality Professional (CAQP), the sample can still be recorded as indicative.

This is possible due to the gauge being active for a longer period than 30±2 days. As the gauge was in place for an additional 8 days and still did not record an exceedance, it is highly unlikely that an exceedance would have occurred over a 30-day period.

On this basis, the deposited dust results should be considered indicative only.

The results are detailed below and complied with Imposed Condition 13(b) of the CGCR.

Table 7 Dust deposition gauge results for the reporting period

CGCR Goal ($mg/m^2/day$)	AQ-01 - RNA Showgrounds ($mg/m^2/day$)	AQ-04 Abbotsford Rd (E Mayne) ($mg/m^2/day$)	AQ-06– Clapham Yard ($mg/m^2/day$)
120	7	7	10*
Total Rainfall during Period (mm)	61.4	80.2	90

** Results are indicative only*

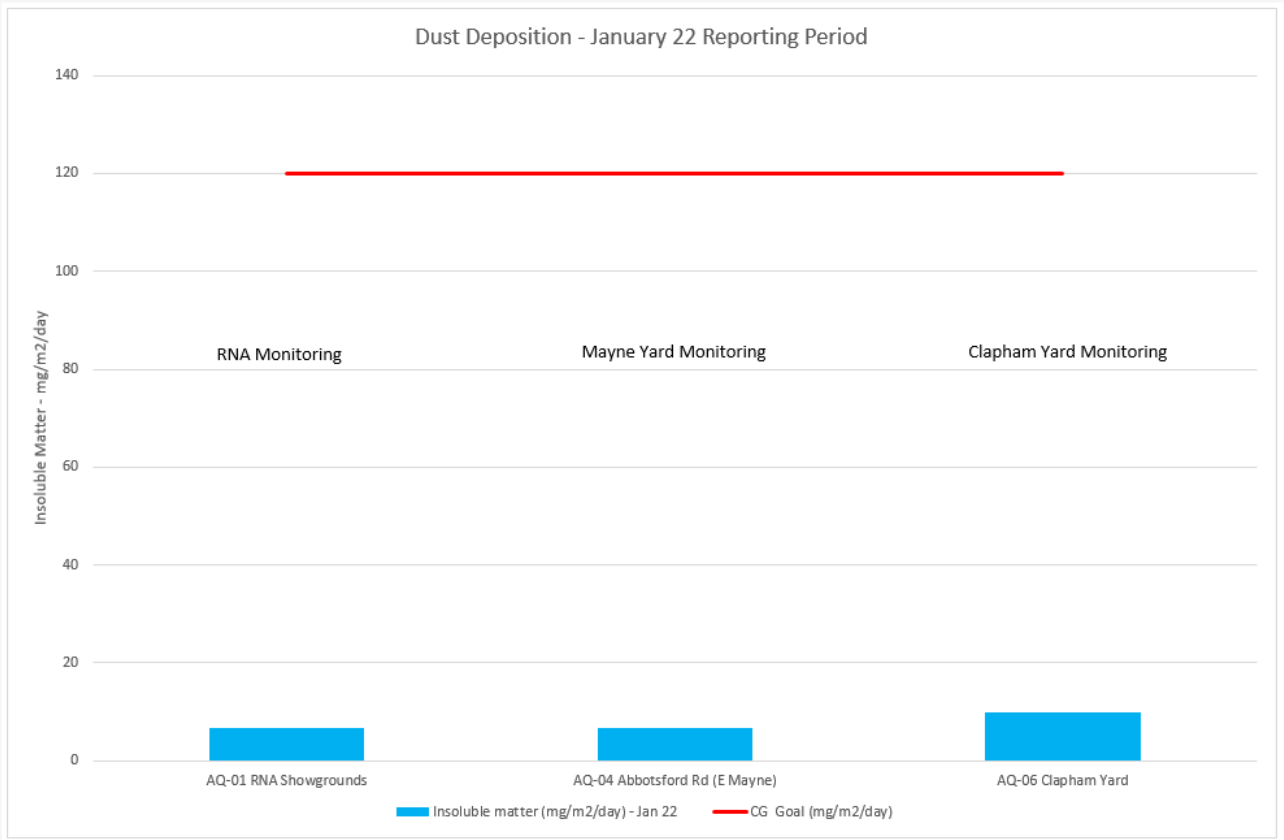


Figure 1 Air Quality Monitoring (Deposited Dust) Results

3.2.2 Particulates results

3.2.2.1 Air Quality Monitoring Stations

Unity had three (3) active air quality monitoring stations in place for the reporting period as detailed in Table 6.

3.2.2.2 Monitoring results – Reporting Period

External ambient air quality data was collected for total suspended particles (TSP), and particulate matter less than 10 µm (PM_{10}).

TSP is one of the indicators for which the Coordinator-General has imposed a goal of 80 µg/m^3 (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).

PM_{10} is one of the indicators for which the Coordinator-General has imposed a goal of 50 µg/m^3 (over an averaging period of 24 hours) the project must aim to achieve under Imposed Condition 13(a).

These stations have been installed on-site as per AS/NZS 3850 1.1 following consultation with UNITY air quality professionals.

The results are represented in the below figures.

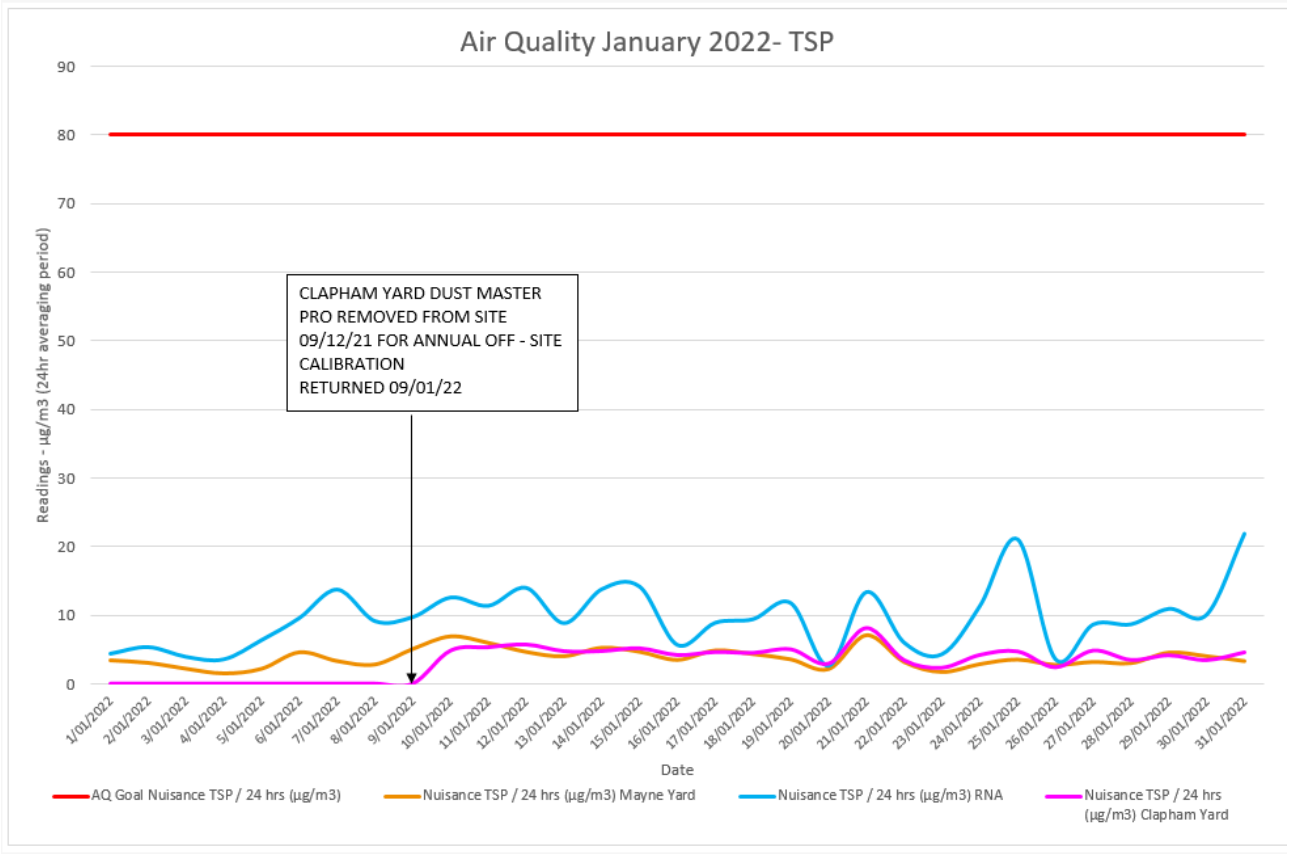


Figure 2 Air Quality Monitoring (TSP) Results

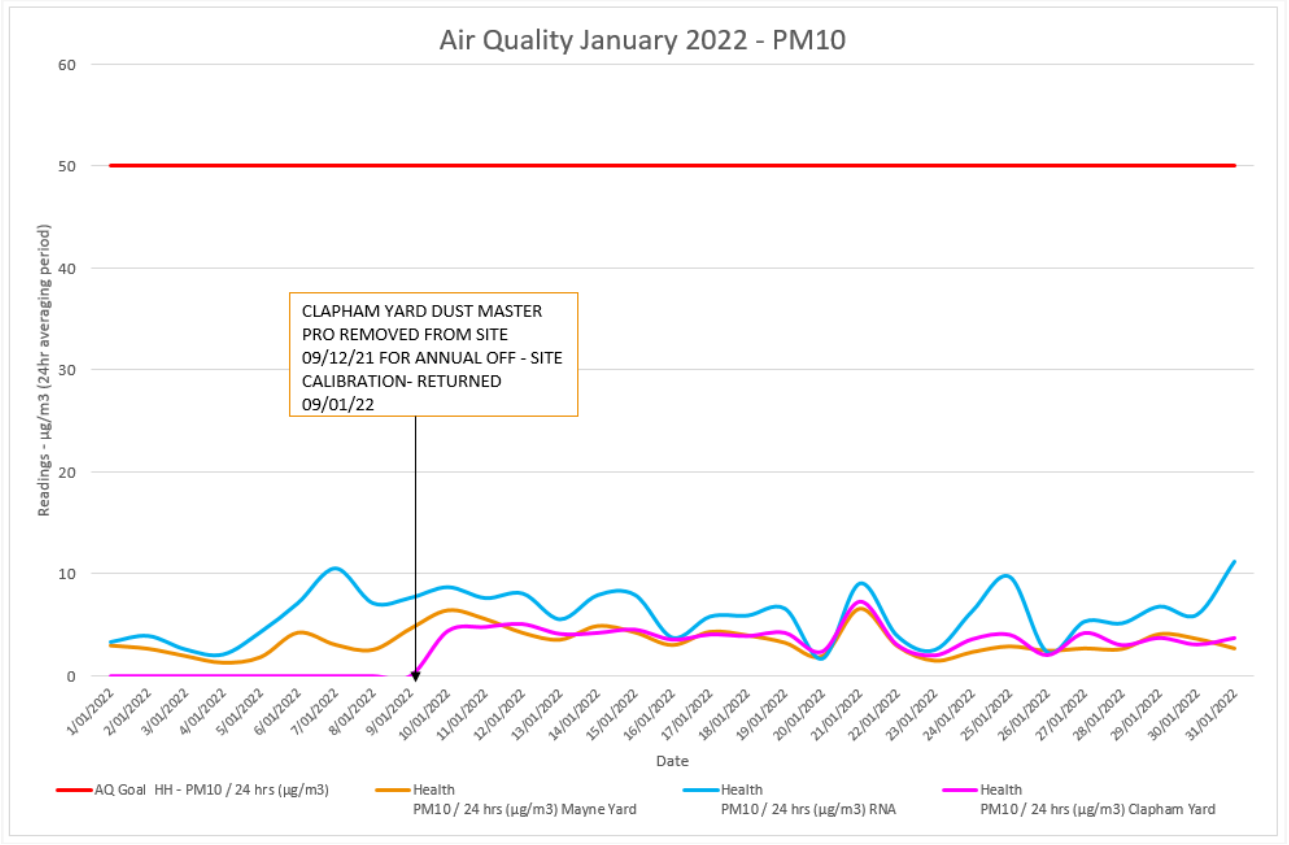


Figure 3 Air Quality Monitoring (PM_{10}) Results

3.2.2.3 Monitoring results – Annual averaging

Imposed Condition 13 (a) sets annual average air quality goals for TSP (Human health) and PM_{10} (Human health).

The below table summarises where TSP and PM_{10} monitoring have been carried out over the last 12 months.

The National Environment Protection (Ambient Air Quality) measure Technical paper No.5 provides guidance and procedures for uniform data recording and handling. (https://www.nepc.gov.au/system/files/resources/9947318f-af8c-0b24-d92804e4d3a4b25c/files/aaqprctp05datacollection200105final.pdf).

For air quality data to be officially reported, as per section 4.5 of Technical Paper No. 5, the minimum data capture would be 75% of the year or 274 days.

"It is essential that data loss is kept to an absolute minimum. For representative monitoring data and for credible compliance assessment it is desirable to have data capture rates higher than 95%. 75% data availability is specified as an absolute minimum requirement for data completeness".

In some instances, Relevant Project Works, which triggered TSP and PM_{10} monitoring to be carried out for less than 274 days (e.g., at the Northern Corridor). In such instances the annual averages are still reported but are indicative only as data capture did not meet the 75% data capture requirements of *National Environment Protection (Ambient Air Quality) Measure Technical Paper No. 5 – Data Collection and Handling.*

Table 8: Summary of Air Quality monitoring devices over 12 months

Monitoring Device Installed by UNITY	Area	Date Installed	Date Decommissioned	Number of days data was captured over 365 days period	Data capture over an annual period	Annual performance reporting
TSP / PM_{10} Monitor	Northern Corridor (Eastern Air Shed)	23 April 2020	13 January 2021	260 over 365 days	71% over 365 days	*Indicative only* Data capture did not meet the minimum data capture requirements
TSP / PM_{10} Monitor	Mayne Yard (Eastern Air Shed)	23 April 2020	Not yet decommissioned	**Period 1** (to 23 April 2021) 358 over 365 days **Period 2** (starting 24 April 2021) 282 over 282 days	**Period 1** 98% over 365 days **Period 2** 100% Over 282 days	**Applicable for Period 1** Data capture met minimum data capture requirements **Not Applicable for Period 2** Data capture has not yet met the minimum data capture requirements

Monitoring Device Installed by UNITY	Area	Date Installed	Date Decommissioned	Number of days data was captured over 365 days period	Data capture over an annual period	Annual performance reporting
TSP / PM_{10} Monitor	RNA (Western Air Shed)	11 June 2020	Not yet decommissioned	**Period 1** (to 11 June 2021) 314 over 365 days **Period 2** (starting 12 June 2021) 233 over 233 days	**Period 1** 86% over 365 days **Period 2** 100% Over 233 days	**Applicable for Period 1** Data capture met minimum data capture requirements **Not Applicable for Period 2** Data capture has not yet met the minimum data capture requirements
TSP / PM_{10} Monitor	Clapham Yard (Eastern Air Shed)	1 February 2021	Not yet decommissioned	326 (over 364 days)	90% over 364 days	Data capture met minimum data capture requirements

The below table summarises the applicable and indicative annual data results for TSP and PM_{10} against the performance goals imposed under Condition 13(a). Results in italic are indicative only.

Table 9 Annual Performance Results

Air Quality Indicator	Goal	Period	Northern Corridor	Mayne Yard	RNA	Clapham Yard
TSP	90 µg/m^3	Period 1	*8 µg/m^3*	11 µg/m^3	18 µg/m^3	8 µg/m^3
		Period 2	-	Not applicable	Not applicable	-
PM_{10}	25 µg/m^3	Period 1	*5 µg/m^3*	7 µg/m^3	11 µg/m^3	5 µg/m^3
		Period 2	-	Not applicable	Not applicable	-

3.2.3 Interpretation

During the reporting period:

- None of the particulate results exceeded their relevant goals for PM_{10} and TSP
- There was no evidence of dust being generated and leaving the site boundaries
- There were no complaints received associated with air quality concerns.

The RIS scope of works has met the project outcomes set out by the CGCR and OEMP.

3.3 Water Quality

Condition 15(b) of the CGCR requires that during construction, monitoring and reporting on water quality in accordance with the Water Quality Management Plan, a sub-plan of the C-EMP, occurs.

Condition 15(a) requires that discharges of groundwater from Project Works within the Breakfast Creek catchment must comply with the Brisbane River Estuary environmental values and water quality objectives (Basin no.143 – mid-estuary) in the *Environment Protection (Water) Policy 2009*.

Condition 15(a) requires that discharges of groundwater from Project Works within Moolabin Creek, Yeerongpilly – Oxley Creek catchment must comply with the Oxley Creek - Lowland freshwater

environmental values and water quality objectives (Basin no.143 (part) – including all tributaries of the Creek) in the *Environment Protection (Water) Policy 2009*.

Water quality monitoring to demonstrate compliance with Condition 15(a) was not triggered during the reporting period. There were no groundwater discharges.

Water quality monitoring to demonstrate compliance with Condition 15(b) and Condition 18 was triggered during the reporting period. The rain event recorded on 26 January 2022 (24mm in 24 hours) during the reporting period at Mayne Yard had the potential to result in run-off being generated from this active worksite

There were no active surface water discharges (e.g., dewatering through pumping, sediment basin release) to receiving waters.

3.3.1 Rainfall Records

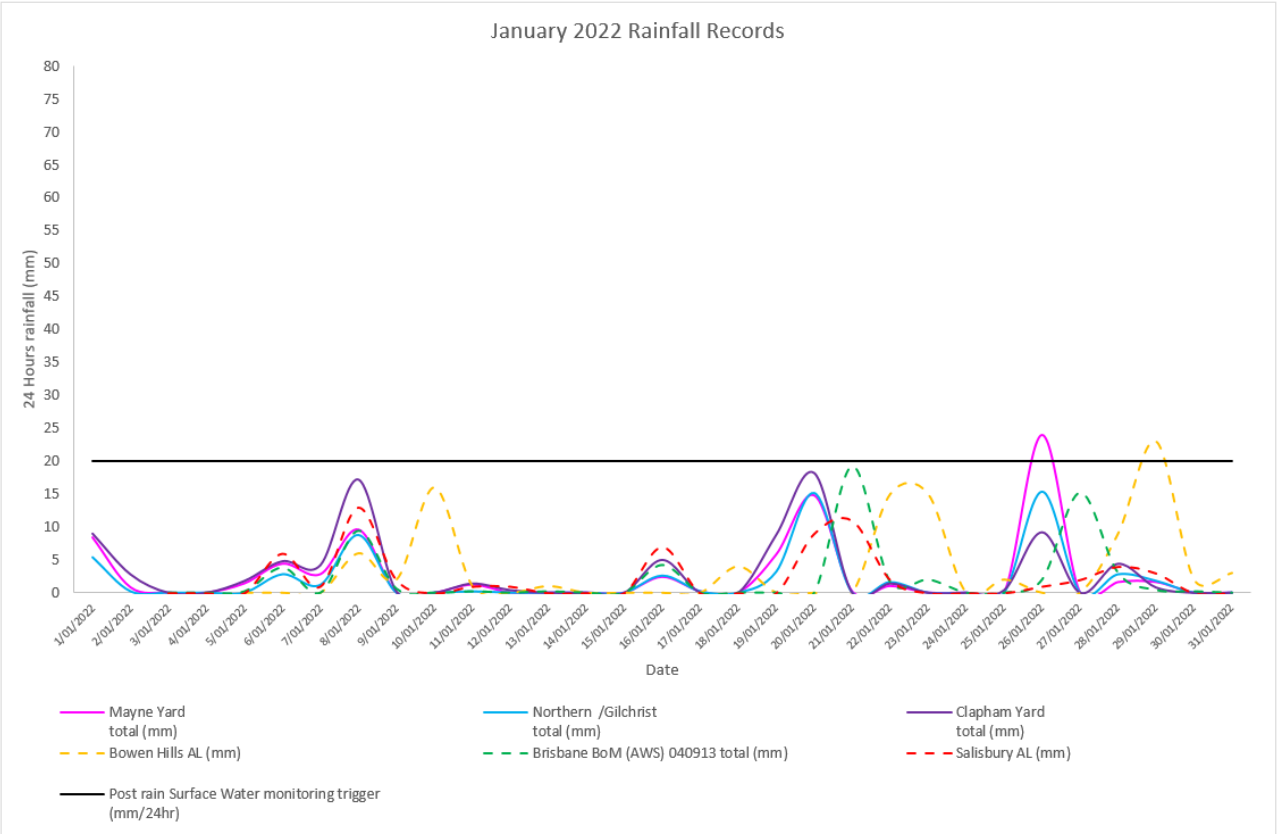


Figure 4 Rainfall Records

3.3.2 Post Rainfall Monitoring Results

There was one rainfall event with the potential to cause runoff in the reporting period, however, in-situ post rainfall monitoring was not carried out.

Post rainfall monitoring is triggered typically following any rainfall event exceeding 20 to 25 mm over 24 hours, however, storm events during the high-risk period of the year (November to March) of lesser amounts but of a higher intensity may cause run-off which would also trigger post-rain monitoring consistent with the C-EMP.

The event that occurred on 26 January recorded 24mm of rainfall.

A weekly environmental inspection was conducted 24 January, two days prior to the rainfall event. Three actions were identified around ERSED, all of which were closed out prior to the rain event. The actions were deemed to be adequately carried out.

It was also confirmed that:

- Mayne Yard's ESC-P was designed by suitably qualified person consistent with the Guidelines for Best Practice Erosion and Sediment Control (IECA 2008) as per Imposed Condition 18.
- The ESC-P was regularly reviewed and updated by a suitably qualified person in ESC management. Actions pertaining to the maintenance of the ESC measures prior to predicted rain events and following rainfall had been promptly addressed to a suitable degree of execution.
- The 24mm rain event occurred over a period of 20 hours, rain commenced at 00:15 and ceased at 20:30.
- A similar rain event (similar depth) of higher intensity had occurred on 08 December 2021 and there had been no evidence of stormwater run-off passively entering the creek and causing visual discoloration to Breakfast Creek in the immediate vicinity of the Project Works.
- Mayne Yard internal drainage remains blocked during the reporting period resulting in no ability for offsite discharge through constructed outlets.
- Catchment reporting to the South Bank of Breakfast Creek was also fully stabilised with drainage mattress and geofabric refer Plate 1 below taken on 24 January 2022

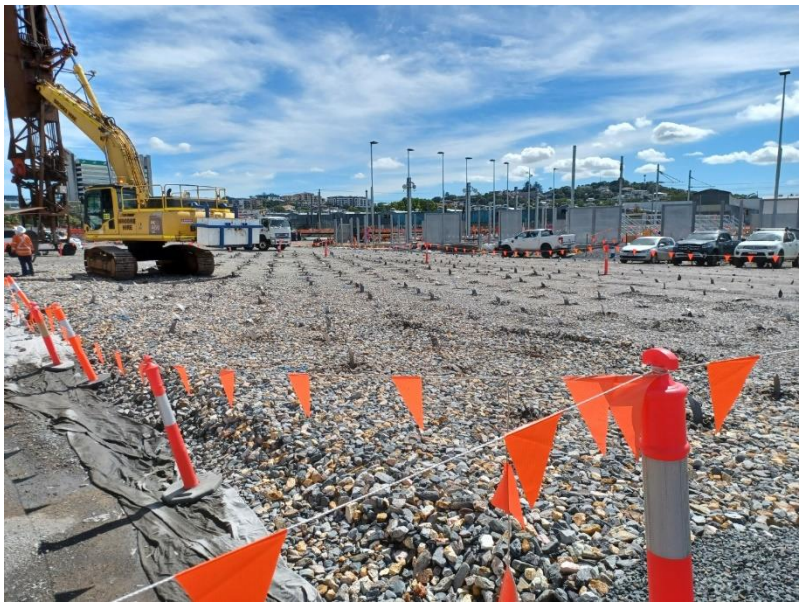


Plate 1 Drainage Mattress 24 January 2022

Due to the above factors, it could be assumed with reasonable certainty that the rainfall event did not result in any passive or active discharges of sediment laden water to surface waters.

It was therefore concluded that post rainfall monitoring was not necessary in this circumstance.

Compliance with Imposed Conditions 15 and 18 was met.

3.3.3 Groundwater Discharge Monitoring Results

Groundwater discharge monitoring was not triggered during the reporting period.

3.3.4 Routine Surface Water Monitoring Results

During the reporting period, UNITY undertook one (1) round of surface water quality monitoring which aligns with the wet season (October to March). This reduction of monitoring frequency is acceptable to continue informing the Dis-1 Credit for the ISCA 'Excellent Rating' the Project is pursuing.

Date	Location	Waterway	Tide	Turbidity (NTU)	TSS (mg/L)	DO (%)	pH (pH Unit)
19/08/21	SW 1 – Upstream of Mayne Yard	Breakfast Creek	Falling Brackish to marine conditions	In field: 13.94 Lab: 28.4	34	96	6.8
19/08/21	SW 2 – Adjacent to Mayne Yard	Breakfast Creek	Falling Brackish to marine conditions	Infield: 28.95 Lab: 12.4	18	88	7.2
19/08/21	SW 3 – Downstream of Mayne Yard	Breakfast Creek	Falling Brackish to marine conditions	Infield: 69.47 Lab: 10.5	15	108	7.4
19/08/21	SW 4 – Downstream of Northern Corridor	Barrambin / York's Hollow	Not applicable – non tidal environment	In field: 12.6 Lab: 24.1	9	55	7.8
19/08/21	SW 5 – Upstream rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Infield: 13.9 Lab: 4.5	<5	105	7.2
19/08/21	SW 6 – Downstream rail corridor	Moolabin Creek	Not applicable – non tidal environment	In Field: 22.15 Lab: 7.1	8	94	7.3
19/08/21	SW 7 – Upstream Rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	In Field: 14.46 Lab: 4.1	<5	92	7.1
19/08/21	SW 8 – Downstream Rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	In Field: 12.2 Lab: 3.4	<5	86	7.0
19/08/21	SW 9 – Downstream Rail corridor	Stable Swamp Creek	Not applicable – non-tidal environment	In Field: 14.9 Lab: 4.3	<5	99	7.1

4 Compliance Review

4.1 Non-Compliance Events

The below section summarises the events to be reported in accordance with Condition 5 and Condition 6(b)(ii) of the CGCR.

A non-compliance event (NCE) is defined as Project Works that do not comply with the Imposed Conditions.

4.1.1 Non - Compliance Events Summary

Table 10 Summary of Non-Compliance Events

Event Title	Location, Date, and time of event	Date the Event was Formally Notified to CG/IEM	Conditions Affected	Date the Event Report Formally Sent to CG/IEM	Status of Event
None for this reporting period					

4.2 C-EMP Compliance

The below table summarises compliance status with the C-EMP and monitoring requirements of relevant sub-plans for the reporting period.

Table 11 C-EMP and relevant Subplans monitoring requirements – Compliance Status for the reporting period

Aspect	Monitoring requirement	Activities risk profile	Monitoring undertaken	Compliance status with C-EMP / Subplan	Effect of the non-compliance
Air Quality	Visual monitoring program + Additional particulate monitoring as required based on the outcomes of the predictive assessment/risk profile	Moderate to High	Yes – visual monitoring is undertaken as part of routine inspections. Monitoring for TSP, PM10, and deposited dust was also undertaken	Compliant	Not Applicable
Air Quality	Complaint's response	Moderate to High	Not triggered – no complaints	Compliant	Not Applicable
Noise	Buffer distance tests based on the outcomes of the predictive assessment based / risk profile of activities	Moderate to High	No	Compliant	Not Applicable
Noise	Plant noise audits for noisy plant to validate models input as required	Moderate to High	No	N/A	Not Applicable
Noise	Complaint's response	Moderate to High	No. Two complaints received at Yeronga-	Compliant	Not Applicable
Vibration	Construction Monitoring at Sensitive Places / DAPs - Model verification based on the outcomes of the predictive assessment based / risk profile of activities	Moderate to High	No	Compliant	Not Applicable
Vibration	Complaint's response	Moderate to High	Not triggered – no complaints	Compliant	Not Applicable
Water Quality	Bi-Annual monitoring	N/A	Triggered	Compliant	Not Applicable
Water Quality	Post Rainfall	Moderate to High	Triggered	Compliant	Not Applicable
Water Quality	Dewatering	Moderate to High	Not Triggered	N/A	Not Applicable

Attachment 1 CGCR Non-Compliance Event Report (if required)

None for this reporting period.

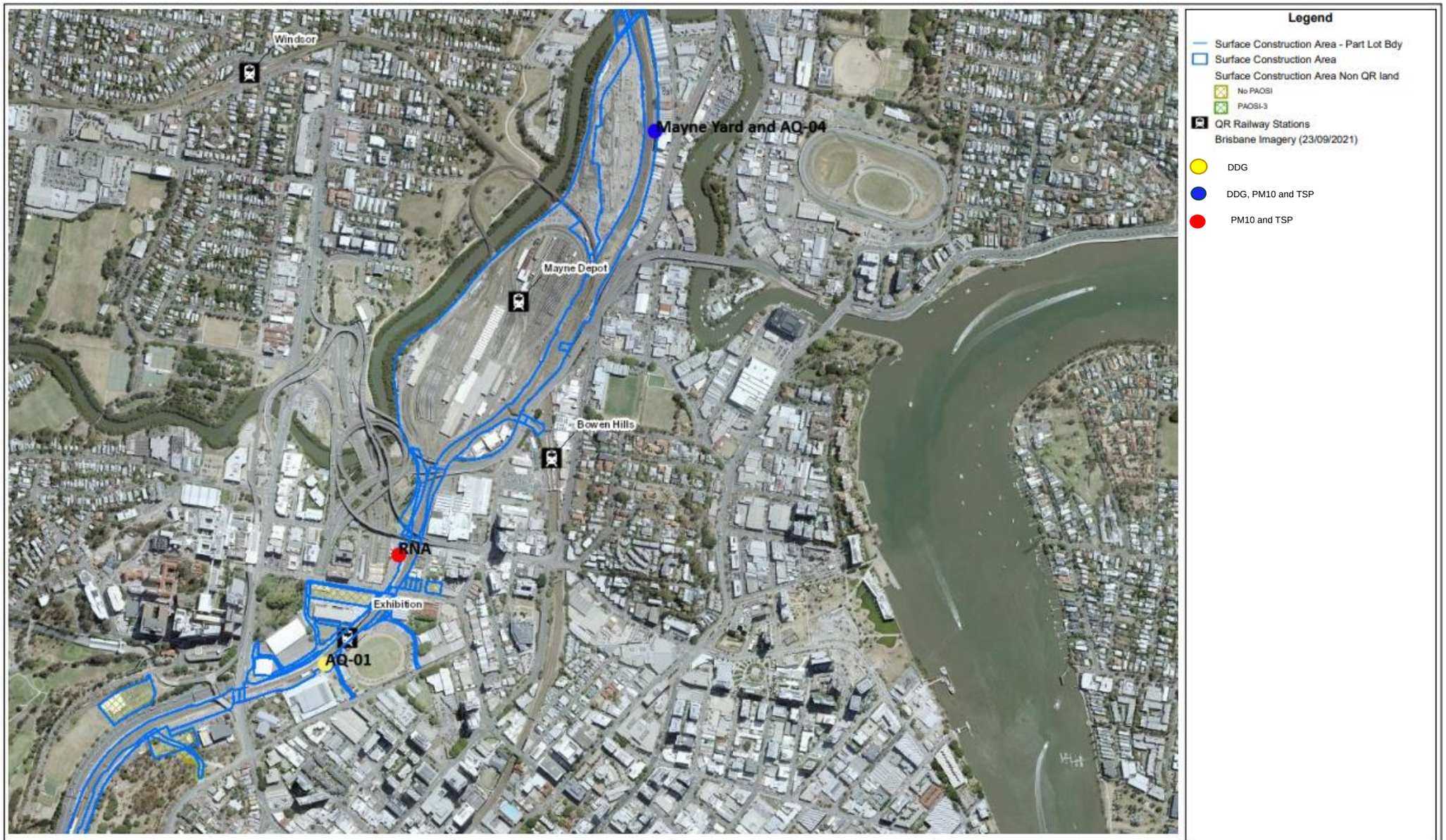
Attachment 2 Monitoring Locations – Noise

None for this reporting period

Attachment 3 Monitoring Locations – Vibration

None for this reporting period

Attachment 4 Monitoring Locations – Air Quality



A FOR INFORMATION

Issue	Description	Date	Approved

Scale 1: 10,000

508 0 254.0 508 Meters

© EIC Activities GIS

This map is a user generated static output from EIC Activities Web GIS Viewer and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Status	GIS OUTPUT NOT USED FOR CONSTRUCTION		
Original Size	A3	Drawn	
Coordinate System	GDA MGA94-56	Designed	
Height Datum	AHD	Date Printed	9-Feb-2022

Assured Integration
for a New Era

Cross River Rail - RIS Alliance

Air Quality Monitoring

A	FOR INFORMATION		
Issue	Description	Date	Approved

Scale 1: 6,865

349 0 174.4 349 Meters

© EIC Activities GIS

This map is a user generated static output from EIC Activities Web GIS Viewer and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

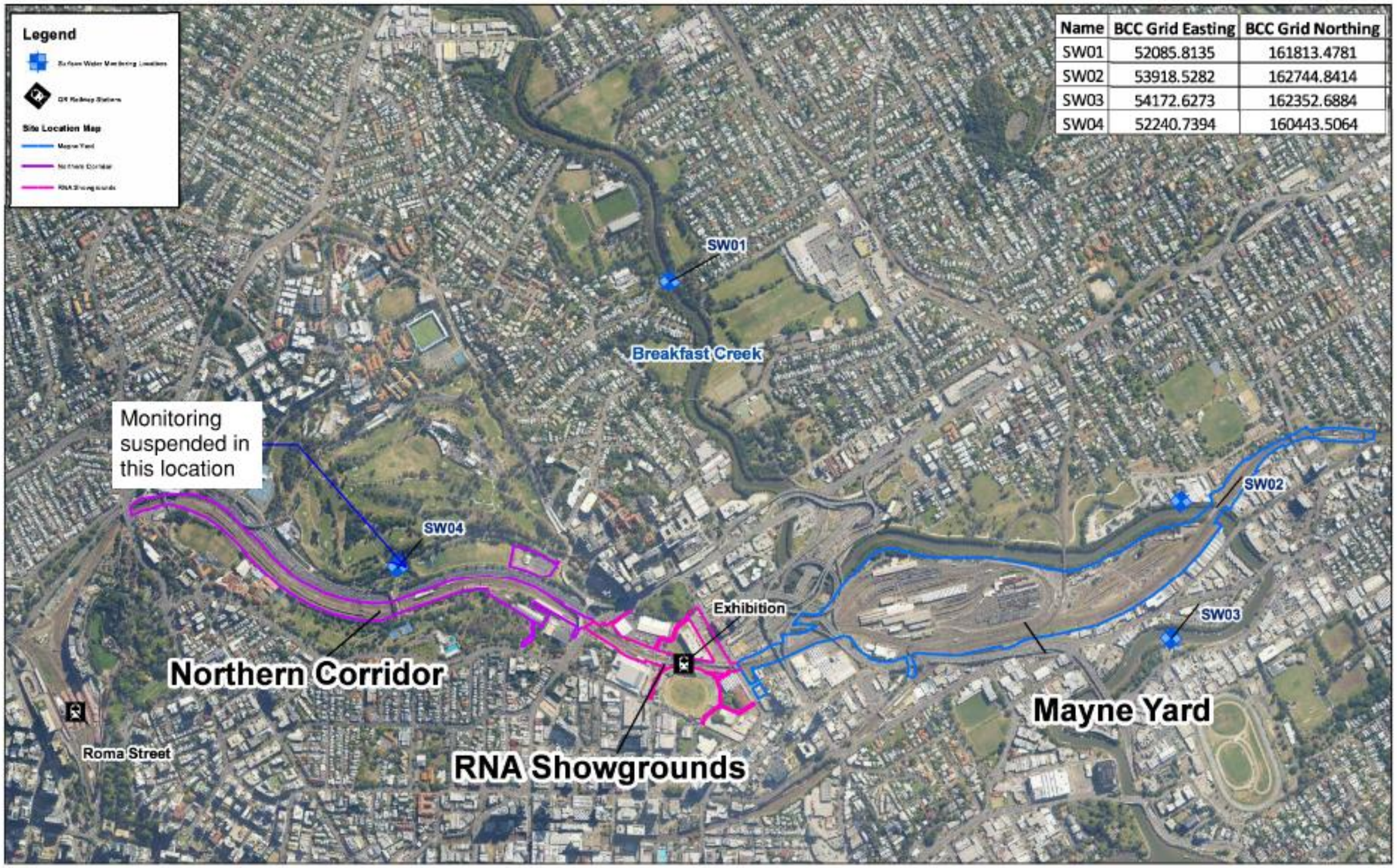
Status	GIS OUTPUT NOT USED FOR CONSTRUCTION		
Original Size	A3	Drawn	
Coordinate System	GDA MGA94-56	Designed	
Height Datum	AHD	Date Printed	9-Feb-2022

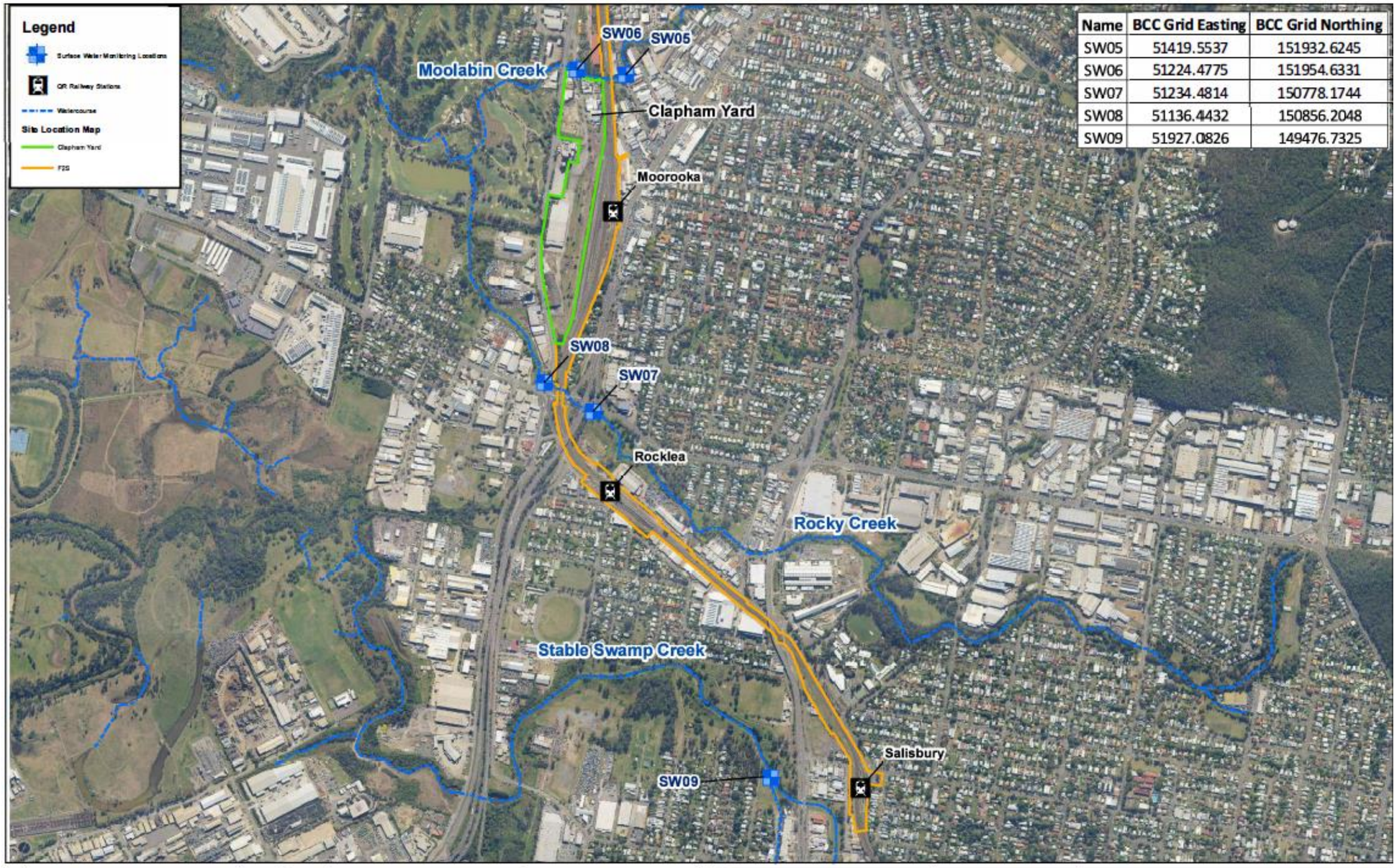
Assured Integration
for a New Era

Cross River Rail - RIS Alliance

Air Quality Monitoring

Attachment 5 Monitoring Locations – Surface Water


Legend
Surface Water Monitoring Locations
QR Railway Stations
Site Location Map
Mayne Yard
Northern Corridor
RNA Showgrounds
Name | BCC Grid Easting | BCC Grid Northing
SW01 | 52085.8135 | 161813.4781
SW02 | 53918.5282 | 162744.8414
SW03 | 54172.6273 | 162352.6884
SW04 | 52240.7394 | 160443.5064
SW01
Breakfast Creek
Monitoring suspended in this location
SW04
SW02
Exhibition
SW03
Northern Corridor
Roma Street
RNA Showgrounds
Mayne Yard
0 100 200 400 600 m
Scale 1 : 12,000 cm
Status
Issued for Information
Original Size A3
Drawn GIS
Coordinate System GDA 1994 BCSC07
Designed UNITY
Height Datum AHD
Date Printed 2/13/2020
Filename: Surface_Water_Northern_Area_Map.mxd
1 Overview Map 1/08/2019 UNITY
Rev Description Date Approved
Project Wide Surface Water Investigation
Figure 1 - Surface Water Monitoring Locations
Project Number
Discipline ENV
Document PL
Document Number 002
Rev 1



Name	BCC Grid Easting	BCC Grid Northing
SW05	51419.5537	151932.6245
SW06	51224.4775	151954.6331
SW07	51234.4814	150778.1744
SW08	51136.4432	150856.2048
SW09	51927.0826	149476.7325

Rev	Description	Date	Approved
1	Southern Overview Map	17/09/2019	Unity

0 100 200 400 600 m
Scale 1 : 12,000 cm

Status: Issued for Information

Original Size	A3	Drawn	GIS
Coordinate System	GDA 1994 BCSG02	Designed	Unity
Height Datum	AHD	Date Printed	2/13/2020
Filename:	Surface_Water_Southern_Area_Map.mxd		

N

Project Wide Surface Water Investigation

Figure 2 - Surface Water Monitoring Locations

Project Number	Discipline	Document	Document Number	Rev
	ENV	PL	002	1

Appendix B TSD Monthly Report

COORDINATOR-GENERAL'S MONTHLY REPORT: January 2022

Prepared in accordance with Coordinator-General Imposed Condition 6 - Reporting.

1. Monthly Monitoring Summary

It is CBGU Joint Venture's intent to aim for the Goals and Objectives relevant to vibration, noise, air quality and water monitoring within the practical extent of delivering the Project.

Vibration monitoring was conducted on six (6) occasions, and noise monitoring was conducted on seventeen (17) occasions during January 2022. Each vibration and noise monitoring event confirmed works adhered to project requirements.

Ambient air quality monitoring was conducted at Roma Street, Albert Street, Woolloongabba, Boggo Road, Southern Portal and Northern Portal precinct sites during January 2022. Air quality monitoring confirmed works adhered to project requirements.

Water quality monitoring was conducted before the release of water from the site on twenty-seven (27) occasions. Each monitoring event confirmed project requirements were adhered to. Two (2) rounds of surface water quality monitoring were conducted; the monitoring events confirmed no impacts were generated by the Project.

2. CG Monthly Report – Compliance Assessment Against Imposed Conditions

Whilst not a requirement of Imposed Condition 6, CBGU offers the below Compliance Status Table as a goodwill gesture to demonstrate the Project's ongoing environmental performance.

Table 1: Compliance Status – CG Imposed Conditions

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
1.	**General conditions** – compliance with the Project Changes relevant to the Contractor's scope.	Yes	CBGU project works have been conducted in compliance with the Imposed Conditions.
2.	**Outline Environmental Management Plan** – timely submission to the Coordinator-General, including required sub plans.	N/A	The OEMP is not an obligation of the CBGU Joint Venture.
3.	**Design** – the achievement of the Environmental Design Requirements.	Yes	Design and implementation proceeded in accordance with the Environmental Design Requirements.
4.	**Construction Environmental Management Plan** – all relating to Relevant Project Works.	Yes	All CBGU works were conducted in accordance with the Construction Environmental Management Plan (CEMP) (Rev 8).
5.	**Compliance and Incident management** – Non-compliance events, notifications, and reporting.	Yes	Nil non-compliances occurred during the monitoring period (refer to Section 4).
6.	**Reporting** – Monthly and Annual reporting.	Yes	All reporting requirements are completed in accordance with Imposed Condition 6.
7.	**Environmental Monitor** – engaged and functions resumed.	Yes	An Environmental Monitor (EM) is appointed to the Project, and CBGU is committed to working collaboratively to aid the EM's functions under Imposed Condition 7.
8.	**Community Relations Monitor** – engaged and functions resumed.	Yes	A Community Relations Monitor (CRM) is appointed to the Project, and CBGU is committed to working collaboratively to aid the CRM's functions under Imposed Condition 8.
9.	**Community engagement plan** – developed and endorsed by Environmental Monitor.	Yes	A Community Engagement Plan (CEP) has been developed and implemented in accordance with Imposed Condition 9. The CEMP has been endorsed with the CEP.
10.	**Hours of work** – works undertaken during approved hours.	Yes	CBGU project works have been conducted in accordance with the approved hours of work.

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
11.	**Noise** – Work must aim to achieve internal noise goals for human health and wellbeing.	Yes	CBGU project work has aimed to achieve internal noise goals for human health and wellbeing. Where internal noise levels have been unable to be measured, suitable noise reductions have been applied in accordance with Imposed Condition 11. Noise monitoring data is provided within Section 3.2.
	Vibration – Works must aim to achieve vibration goals for cosmetic damage, human comfort and sensitive building contents.	Yes	CBGU project work has aimed to achieve vibration goals for cosmetic damage, human comfort and sensitive buildings. Vibration monitoring data is provided within Section 3.1.
12.	**Property damage** relating to ground movement	Yes	The management of potential impacts relating to property damage has been completed in accordance with Imposed Condition 12.
13.	**Air quality** – Works must aim to achieve air quality goals for human health and nuisance.	Yes	CBGU project works have aimed to achieve air quality goals. Air quality monitoring data is provided within Section 3.3.
14.	**Traffic and transport** – Works must minimise adverse impacts on road safety and traffic flow.	Yes	CBGU project works have been conducted in a manner that has minimised adverse impacts on road safety and traffic flow.
15.	**Water quality** – Works must not discharge surface water and groundwater from the construction site above the relevant environmental values and water quality objectives.	Yes	CBGU has prepared and manages processes to ensure water quality is managed in accordance with Imposed Condition 15.
16.	**Water resources** – evaluate potential impact, plan works, implement controls and monitor the inflow of groundwater associated with drawdown.	Yes	CBGU project works are managed in accordance with Imposed Condition 16.
17.	**Surface water** – Must be designed to avoid inundation from stormwater due to a 2-year (6hr) ARI rainfall event and flood waters due to a 5-year ARI rainfall event and constructed to avoid afflux or cause the redirection of uncontrolled surface water flows, including stormwater flows, outside of worksites.	Yes	Design of the CBGU project works considers the requirements of Imposed Condition 17.
18.	**Erosion and sediment control** – Provisions for erosion and sediment control must be consistent with the Guidelines for Best Practice Erosion and Sediment Control (International Erosion Control Association, 2008) and the Department of Transport and Main Roads' Technical Standard MRTS52.	Yes	CBGU has prepared and manages processes to ensure erosion and sediment control is managed in accordance with Imposed Condition 18.
19.	**Acid Sulfate Soils** managed as per the *Queensland Acid Sulfate Soil Technical Manual.*	Yes	CBGU has prepared and manages processes to ensure acid sulphate soils are managed in accordance with Imposed Condition 19.

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
20.	**Landscape and open space** – general requirement to minimise impacts on landscapes and open space values and specific requirements around Victoria Park	Yes	CBGU project works are designed and implemented in accordance with Condition 20.
21.	**Worksite rehabilitation** – worksites rehabilitated as soon as practicable upon completion of works or commissioning, and in consultation with Brisbane City Council.	Yes	CBGU project works are designed and implemented in accordance with Condition 21.

3. Environmental Monitoring Results

Monitoring data is provided below in accordance with Imposed Condition 6(b)(i).

3.1 Vibration

Vibration requirements (levels) are defined as goals within Imposed Condition 11. The goals are to be aimed for.

The Coordinator-General Change Report acknowledges instances that exist that these goals may not be achieved.

Six (6) vibration monitoring sessions were conducted during January 2022.

All vibration monitoring adhered to project requirements and is detailed in the table below.

Table 2: Vibration Monitoring Data

No.	Start Date	Time (AM/PM)	Finish Date	Location	Average Vibration level (mm/s)	Max Vibration Level (mm/s)	Vibration Goal (mm/s)	Receiver / Goal Type	Adhered to Project Requirements (Yes / No)
1.	6/01/2022	11:04:00 AM	6/01/2022	Charlotte Street (Albert Street Precinct)	-	5.05	50	Residential (Controlled Blast)	Yes
2.	12/01/2022	4:15:00 PM	12/01/2022	Charlotte Street (Albert Street Precinct)	-	4.30	50	Residential (Controlled Blast)	Yes
3.	13/01/2022	4:00:00 PM	13/01/2022	Charlotte Street (Albert Street Precinct)	-	4.30	50	Residential (Controlled Blast)	Yes
4.	20/01/2022	7:36:00 AM	20/01/2022	Mary Street (Albert Street Precinct)	-	3.7	10	Heritage Structure (Controlled Blast)	Yes
5.	25/01/2022	04:01:00 AM	25/01/2022	Albert Street (Albert Street Precinct)	-	9.55	50	Residential (Controlled Blast)	Yes

No.	Start Date	Time (AM/PM)	Finish Date	Location	Average Vibration level (mm/s)	Max Vibration Level (mm/s)	Vibration Goal (mm/s)	Receiver / Goal Type	Adhered to Project Requirements (Yes / No)
6.	27/01/2022	4:00:00 PM	27/01/2022	Petrie Terrace (Roma Street Precinct)	-	8.25	10	Heritage Structure (Controlled Blast)	Yes

3.2 Noise

Noise requirements (levels) are defined as goals within Imposed Condition 11. The goals are to be aimed for.

The Coordinator-General Change Reports acknowledge instances exist that these goals may not be achieved.

Noise monitoring was conducted on seventeen (17) occasions during January 2022. All noise monitoring data adhered to project requirements and is provided in the table below.

Table 3: Noise Monitoring Data

No.	Date	Time (AM / PM)	Location (Street Name) (Construction Precinct)	Purpose of Monitoring	Internal or External [3] Monitoring	Activity	Dominant Noise Source	Noise Goal LA10[1]	Noise level LA10	Noise Goal LAeq[2]	Noise level LAeq	Adhered to Project Requirements (Yes / No)
1.	6/01/2022	11:04:00 AM	Albert Street (Albert Street Precinct)	Construction Monitoring	External	Controlled Blast	Construction	-	-	130[3]	113.3[3]	Yes
2.	10/01/2022	1:49:00 PM	Roma Street (Roma Street Precinct)	Stakeholder Enquiry	Internal	Hydro blasting	Construction and QR PA	60	75	50	72.8	Yes
3.	12/01/2022	4:15:00 PM	Albert Street (Albert Street Precinct)	Construction Monitoring	External	Controlled Blast	Construction	-	-	130[3]	108[3]	Yes
4.	13/01/2022	4:00:00 PM	Elizabeth Street (Albert Street Precinct)	Construction Monitoring	External	Controlled Blast	Construction	-	-	130[3]	122.5[3]	Yes
5.	13/01/2022	8:07:00 PM	Roma Street (Roma Street Precinct)	Stakeholder Enquiry	Internal	High-pressure cleaning	Construction	50	41.6	40	40.6	Yes
6.	17/01/2022	11:04:00 AM	George Street (Roma Street Precinct)	Construction Monitoring at Sensitive Places	External	Excavation	Road Traffic	67	74.4	57	71.5	Yes

No.	Date	Time (AM / PM)	Location (Street Name) (Construction Precinct)	Purpose of Monitoring	Internal or External [3] Monitoring	Activity	Dominant Noise Source	Noise Goal LA10[1]	Noise level LA10	Noise Goal LAeq[2]	Noise level LAeq	Adhered to Project Requirements (Yes / No)
7.	17/01/2022	11:21:00 AM	Roma Street (Roma Street Precinct)	Construction Monitoring at Sensitive Places	External	Excavation	Road Traffic	72	73.8	62	71	Yes
8.	18/01/2022	11:00:00 AM	Albert Street (Albert Street Precinct)	Stakeholder Enquiry	External	Excavation	Construction	72	78.1	62	76.5	Yes
9.	20/01/2022	8:00:00 PM	N Quay (Roma Street Precinct)	Stakeholder Enquiry	Internal	Excavation	Road Traffic	50	40.1	40	39.9	Yes
10.	20/01/2022	12:13:00 PM	Albert Street (Albert Street Precinct)	Stakeholder Enquiry	Internal	Excavation	Construction	50	44.5	40	40.7	Yes
11.	20/01/2022	12:38:00 PM	Albert Street (Albert Street Precinct)	Stakeholder Enquiry	Internal	Excavation	Construction	50	48.4	40	43.6	Yes
12.	20/01/2022	7:36:00 AM	Albert Street (Albert Street Precinct)	Construction Monitoring	External	Controlled Blast	Construction	-	-	130[3]	119.7[3]	Yes
13.	25/01/2022	12:21:00 AM	Mary Street (Albert Street Precinct)	Stakeholder Enquiry	Internal	Excavation	Construction	42	38	35	36.3	Yes
14.	25/01/2022	12:39:00 AM	Mary Street (Albert Street Precinct)	Stakeholder Enquiry	Internal	Excavation	Construction	42	44.3	35	42.5	Yes
15.	25/01/2022	4:01:00 PM	Albert Street (Albert Street Precinct)	Construction Monitoring	External	Controlled Blast	Construction	-	-	130[3]	124.1[3]	Yes

No.	Date	Time (AM / PM)	Location (Street Name) (Construction Precinct)	Purpose of Monitoring	Internal or External [3] Monitoring	Activity	Dominant Noise Source	Noise Goal LA10[1]	Noise level LA10	Noise Goal LAeq[2]	Noise level LAeq	Adhered to Project Requirements (Yes / No)
16.	27/01/2022	4:00:00 PM	Roma Street (Roma Street Precinct)	Construction Monitoring at Sensitive Places	External	Controlled Blast	Construction	-	-	130[3]	110.7 [3]	Yes
17.	31/01/2022	7:49:00 AM	Albert Street (Albert Street Precinct)	Construction Monitoring at Sensitive Places	External	Excavation and spoil load out	Construction	72	74.1	62	72.3	Yes

- *[1] Intermittent noise goal (LA10)*
- *[2] Continuous noise goal (LAeq)*
- *[3] Blasting is measured in dB Linear Peak.*
- *Note: In accordance with Imposed Condition 11, where internal noise levels were unable to be measured, external noise goals were developed by an acoustic specialist using the following standards: ISO 140-5:1998 Acoustics – Measurement of Sound Insulation in Buildings and of Building Elements, Part 5: Field measurements of airborne sound insulation of façade elements and facades and ISO 354:1985 Acoustics – Measurement of sound absorption in a reverberation room.*

3.3 Air Quality

3.3.1 Deposited Dust Results

Air quality requirements (levels) are defined as goals within Imposed Condition 13. The goals are to be aimed for. The Coordinator-General Change Report acknowledges instances that exist that these goals may not be achieved. Dust deposition monitoring was performed during January 2022. The dust deposition gauges result for the reporting period are detailed below, and all monitoring data adhered to project requirements.

Table 4.1: November Air Quality Monitoring – Deposited Dust Data

Location	Project Wide Air Quality Goals[1]			Monitoring results (mg/m2/day)	Comments
	Criterion	Air Quality Indicator	Goal (mg/m2/day)		
Northern Portal	Nuisance	Deposited dust	120	22.58	*Air quality monitoring was performed during the reporting period. All results adhered to project requirements.*
Roma Street Precinct				12.90	
Albert Street Precinct (North)				16.13	
Albert Street Precinct (South)				38.71	
Woolloongabba Precinct (North)				13.33	
Woolloongabba Precinct (South)				33.33	
Boggo Road Precinct (North)				-[2]	
Boggo Road Precinct (South)				-[2]	
Southern Portal (South)				-[2]	
Southern Portal (East)				-[2]	

- [1] Project works must aim to achieve construction air quality goals. The Coordinator-General Change Report – Whole of Project Refinements 2019 acknowledges instances exist that these goals may not be achieved.
- [2] At the time of reporting, these results had not been received from the Laboratory. The results will be reported in next month's report.

3.3.2 Particulates and Ambient Air Quality Results

Total Suspended Particules (TSP) and particulate matter less than 10µm (PM10) monitoring was conducted during January 2022.

TSP and PM10 are monitored using portable air quality units and nearby Government air quality stations. Targeted monitoring of potential dust-generating activities is conducted by the mobile air quality units and was completed at Albert Street, Woolloongabba, Boggo Road and Northern Portal Precincts during January 2022. Three (3) Government air quality stations near the Construction Precincts are also utilised.

Table 5: Targeted Air Quality Monitoring – Total Suspended Particles and PM10 Data

Date	TSP Project Goal[1]	PM10 Project Goal	Woolloongabba		Albert		Boggo Road[2]		Northern Portal	
			TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10
	(µg/m3/24 hr)									
01-Jan-22	80	50	8.98	8.94	10.67	10.43	5.29	5.29	10.44	10.43
02-Jan-22	80	50	6.80	6.74	13.19	12.74	3.93	3.90	8.37	8.32
03-Jan-22	80	50	4.23	4.12	5.06	4.50	2.67	2.61	4.86	4.78
04-Jan-22	80	50	3.16	3.04	6.19	5.73	2.06	2.72	3.36	3.31
05-Jan-22	80	50	6.57	6.53	10.43	10.13	5.02	4.98	7.10	7.08
06-Jan-22	80	50	12.90	12.87	19.01	18.40	9.49	9.46	13.87	13.85
07-Jan-22	80	50	18.95	18.93	22.89	22.26	11.33	11.33	22.26	22.25
08-Jan-22	80	50	22.13	22.10	18.64	18.32	10.81	10.80	18.57	18.56
09-Jan-22	80	50	13.21	13.19	14.24	14.05	9.02	8.96	14.25	14.23
10-Jan-22	80	50	11.78	11.73	17.54	16.42	8.80	8.78	12.37	12.35
11-Jan-22	80	50	9.13	9.10	18.73	17.26	8.05	7.99	9.85	9.83
12-Jan-22	80	50	8.83	8.76	17.00	16.32	5.97	5.92	9.04	9.01
13-Jan-22	80	50	6.75	6.70	14.98	14.76	5.59	5.55	7.50	7.48
14-Jan-22	80	50	8.11	8.05	15.80	15.62	5.69	5.67	9.93	9.89
15-Jan-22	80	50	8.74	8.70	15.13	15.00	6.06	6.03	9.76	9.74
16-Jan-22	80	50	6.77	6.71	7.49	7.42	4.09	4.06	7.05	7.02
17-Jan-22	80	50	9.51	9.46	10.96	10.89	5.33	5.32	9.33	9.29
18-Jan-22	80	50	8.50	8.42	11.34	11.27	4.61	4.60	8.26	8.23

Date	TSP Project Goal[1]	PM10 Project Goal	Woolloongabba		Albert		Boggo Road[2]		Northern Portal	
			TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10
	(µg/m3/24 hr)									
19-Jan-22	80	50	8.36	8.27	14.75	14.61	5.29	5.29	8.51	8.46
20-Jan-22	80	50	5.21	5.18	9.83	9.74	3.69	3.69	5.30	5.27
21-Jan-22	80	50	12.13	12.06	20.20	20.07	7.59	7.54	12.63	12.59
22-Jan-22	80	50	6.42	6.38	17.78	17.64	4.07	4.07	6.56	6.54
23-Jan-22	80	50	3.89	3.86	8.09	8.03	2.27	2.25	5.05	5.03
24-Jan-22	80	50	-[2]	-[2]	13.63	13.47	3.61	3.58	6.25	6.22
25-Jan-22	80	50	-[2]	-[2]	12.60	12.47	4.86	4.85	7.44	7.40
26-Jan-22	80	50	-[2]	-[2]	10.90	10.86	6.39	6.37	8.82	8.80
27-Jan-22	80	50	4.91	4.85	15.26	15.15	6.20	6.18	7.86	7.82
28-Jan-22	80	50	6.25	6.20	19.48	19.32	3.97	3.96	5.92	5.90
29-Jan-22	80	50	8.31	8.26	17.45	17.32	4.69	4.68	9.33	9.31
30-Jan-22	80	50	7.47	7.43	11.64	11.59	4.11	4.10	8.51	8.49
31-Jan-22	80	50	4.42	4.42	13.99	13.86	3.58	3.57	7.52	7.50

- [1] Project works must aim to achieve construction air quality goals. The Coordinator-General Change Report – Whole of Project Refinements 2019 acknowledges instances exist that these goals may not be achieved.
- [2] Technical difficulties were experienced between the 24th and 26th January 2022. On 27th January 2022, the mobile air quality unit was reinstated. A nearby (Southern Brisbane) DES Air Quality Stations demonstrated compliant air quality during this outage period, these results are provided below. Low levels were also consistently monitored throughout the month when the unit was operating.

CBGU also utilises three (3) Government air quality monitoring stations to monitor PM10 near the project sites. The results during this reporting period were as follows:

- Brisbane CBD: PM10 daily Maximum average: **33.0 µg/m3/24 hr** (https://apps.des.qld.gov.au/air-quality/chart/?station=cbd&parameter=18&date=1/01/2022&timeframe=month)
- South Brisbane: PM10 daily Maximum average: **33.5 µg/m3/24 hr** (https://apps.des.qld.gov.au/air-quality/chart/?station=sbr&parameter=18&date=1/01/2022&timeframe=month)
- Woolloongabba: PM10 daily Maximum average**: 32.5 µg/m3/24 hr** (https://apps.des.qld.gov.au/air-quality/chart/?station=woo&parameter=18&date=1/01/2022&timeframe=month)

The graphical representation of the Government air quality data is presented in the below charts (refer to Figure 1-3).

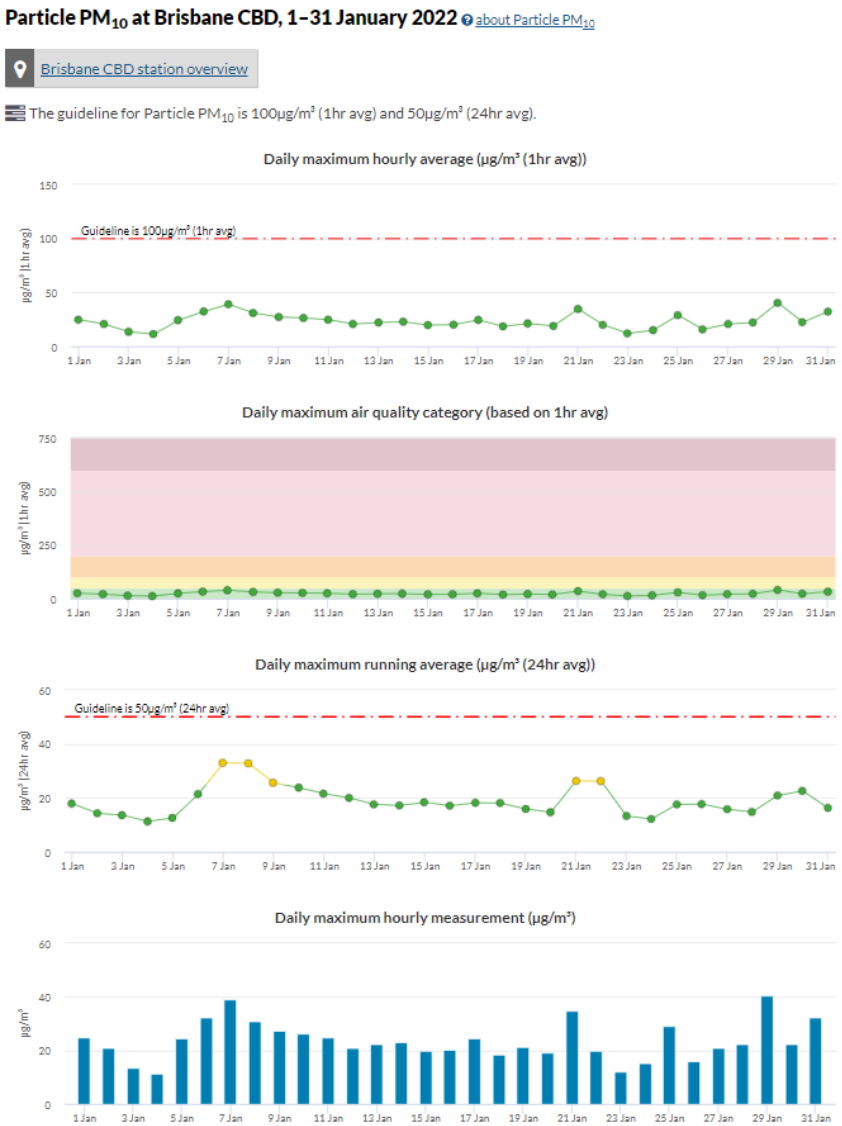


Figure 1: Brisbane CBD – DES Station - PM10 graph for January 2022 (reproduction from the DES website).

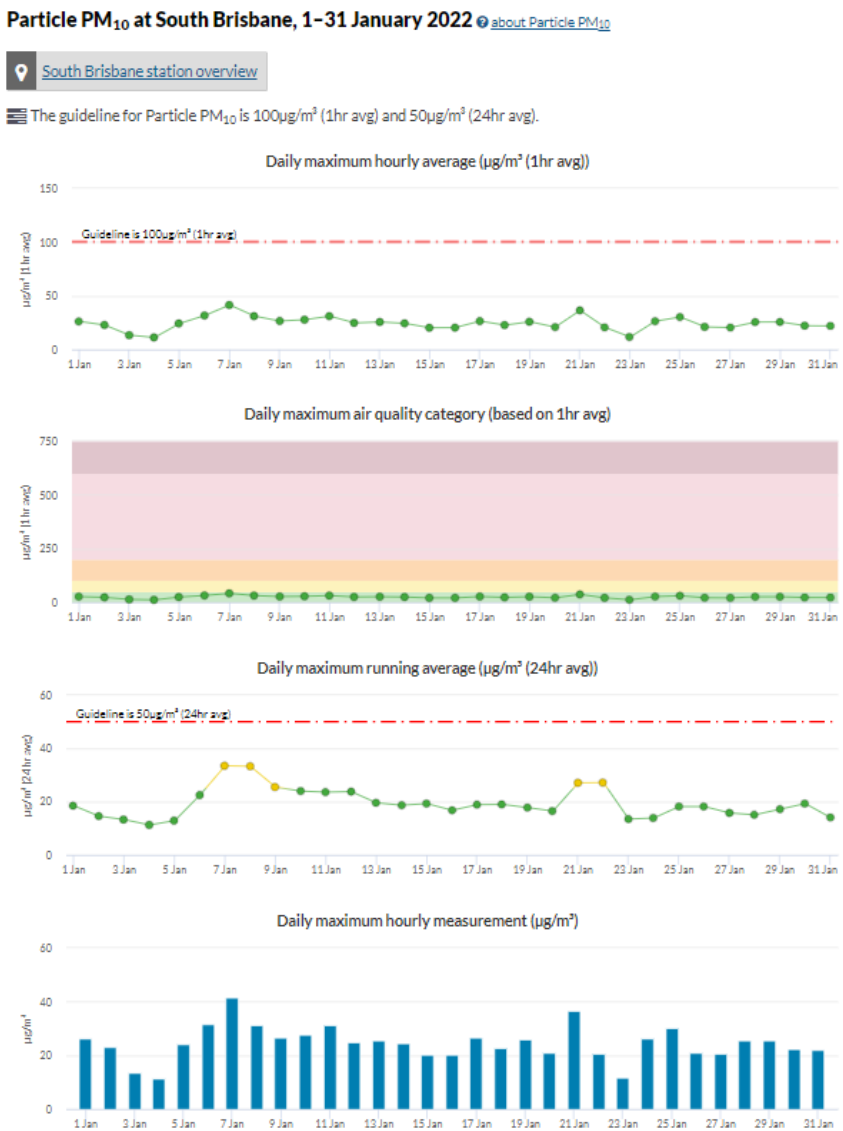


Figure 2: South Brisbane – DES Station - PM10 graph for January 2022 (reproduction from the DES website).

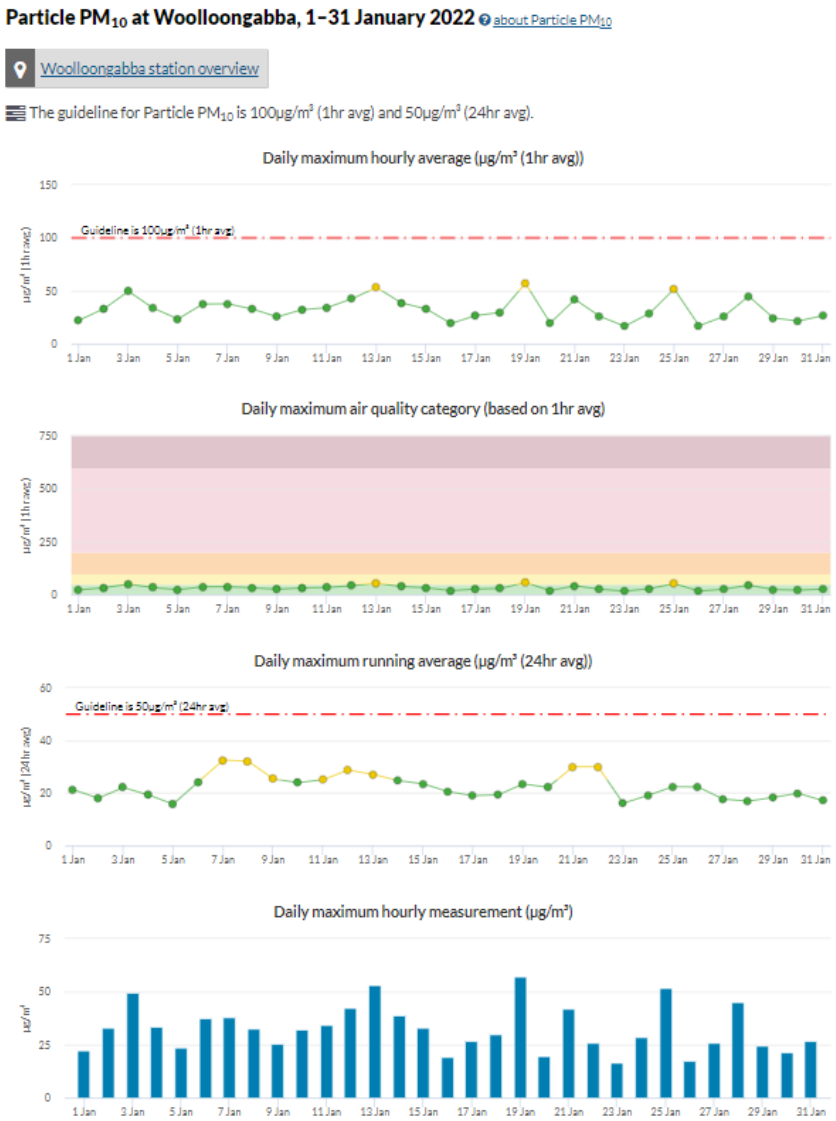


Figure 3: Woolloongabba – DES Station - PM10 graph for January 2022 (reproduction from the DES website).

3.4 Water Quality – Discharge

CBGU undertook three (3) water quality monitoring events prior to the release (groundwater and surface water) from the site.

3.4.1 Groundwater Discharge

Water quality monitoring data is provided in the table below.

Table 6: Groundwater Discharge – Water Quality Monitoring Data

Location	Date	Testing of Water Quality Objectives [1]											Adhered to Project Requirements (Yes / No)
		pH	Suspended solids (mg/L)	Turbidity (NTU)	Ammonia N (µg/L) [3]	Oxidised N (µg/L) [3]	Organic N (µg/L) [3]	Total nitrogen (µg/L) [3]	Total phosphorus (µg/L)	Filterable Reactive phosphorus (FRP) (µg/L)	Chlorophyll a (µg/L)	Dissolved oxygen (%) [2]	
Albert Street	15/01/2022	7.46	5.00	0.44	33400.00	67400.00	8900.00	110000.00	<10	<10	<1	72.85	Yes
Roma Street	05/01/2022	7.91	5.00	0.30	9740.00	16500.00	1800.00	28000.00	10.00	<10	<1	82.30	Yes
Boggo Road	18/01/2022	8.40	<5	1.00	40.00	500.00	1000.00	500.00	20.00	<10	3.00	101.72	Yes
Woolloongabba	15/01/2022	7.59	<5	0.94	480.00	600.00	<50	1400.00	<50	<10	<1	85.93	Yes

- [1] The Project's discharge procedure is designed to minimise environmental impact and aim to achieve the water quality objectives. Water quality objectives are defined as goals within the Brisbane River estuary environmental values and water quality objectives document.
- [2] Adhered to project requirements regarding aiming to achieve the water quality objective. The dissolved oxygen samples were acquired prior to discharge from the site. Pumping of the water will have inadvertently aerated the water, thus influencing the dissolved oxygen level.
- [3] Adhered to project requirements regarding aiming to achieve the water quality objective. These samples identified results generally consistent with pre-construction conditions, and no external influences were introduced by construction activity.
- Note: testing of EPP (Water) Quality Objectives are analysed at a NATA accredited laboratory each month (results provided above). Field testing (turbidity, pH) is done regularly during ongoing discharge.
- [4] Total nitrogen levels adhered to project requirements in regard to aiming to achieve the water quality objective. The results are mostly below that of the receiving environment. They are also considered abnormal compared to results from previous months, and are influenced by external factors (e.g., high rainfall events, overloaded sewage treatment plants,) rather than related to construction activities.

3.4.2 Ponded/Surface Water Discharge

Discharged ponded/Surface water quality monitoring data is provided in the table below.

Table 7: Surface Water Discharge - Water Quality Monitoring Data

No.	Location	Date	Testing of Water Quality Objectives [1]		Adhered to Project Requirements (Yes / No)
			pH	Turbidity (NTU)	
1.	Northern Portal	1/01/2022	7.77	1.00	Yes
2.	Northern Portal	2/01/2022	8.16	1.00	Yes
3.	Northern Portal	3/01/2022	8.17	0.88	Yes
4.	Northern Portal	4/01/2022	7.81	2.53	Yes
5.	Northern Portal	4/01/2022	8.06	7.25	Yes
6.	Northern Portal	5/01/2022	8.03	24.10	Yes
7.	Woolloongabba	5/01/2022	8.20	23.60	Yes
8.	Northern Portal	6/01/2022	8.27	39.80	Yes
9.	Northern Portal	7/01/2022	8.17	30.90	Yes
10.	Northern Portal	8/01/2022	8.30	41.20	Yes
11.	Northern Portal	10/01/2022	8.28	16.06	Yes
12.	Northern Portal	10/01/2022	8.03	3.11	Yes
13.	Northern Portal	11/01/2022	8.24	26.10	Yes
14.	Northern Portal	12/01/2022	8.17	41.70	Yes
15.	Northern Portal	13/01/2022	8.19	31.60	Yes

16.	Northern Portal	14/01/2022	8.13	19.66	Yes
17.	Northern Portal	15/01/2022	8.19	22.70	Yes
18.	Northern Portal	17/01/2022	8.25	21.80	Yes
19.	Northern Portal	18/01/2022	8.11	6.13	Yes
20.	Northern Portal	19/01/2022	8.20	14.80	Yes
21.	Northern Portal	20/01/2022	8.27	23.40	Yes
22.	Northern Portal	21/01/2022	8.30	38.60	Yes
23.	Northern Portal	22/01/2022	8.40	13.25	Yes
24.	Northern Portal	22/01/2022	8.23	22.80	Yes
25.	Northern Portal	24/01/2022	8.40	24.10	Yes
26.	Northern Portal	25/01/2022	8.25	36.20	Yes
27.	Northern Portal	27/01/2022	8.32	18.88	Yes

- [1] The Project's discharge procedure is designed to minimise environmental impact and aim to achieve the water quality objectives. All discharges were compliant with *Guidelines for Best Practice Erosion and Sediment Control (IECA, 2008) and* the *Department of Transport and Main Roads' Technical Standard MRTS 52 – Erosion and Sediment Control.*

3.5 Water Quality – Surface Water

During January 2022, CBGU JV undertook one (1) round of surface water sampling at five (5) site locations (upstream and downstream).

Results from the below monitoring locations reflect the condition of the broader catchment (not just the influence of the Project). Water quality generally appears good, and water discharge from the Project would not have had an impact on the catchment considering the results also provided within section 3.4 above.

Table 8: Offsite Upstream & Downstream Water Quality Data

Location	Upstream / Downstream	Date	Purpose of Monitoring	Turbidity (NTU)	EC (µS/cm)	Dissolved oxygen (%)	pH
Roma Street	Upstream	10/01/2022	Monthly	11.15	19,400	72.62	7.69
Roma Street	Downstream	10/01/2022	Monthly	11.67	20,100	66.45	7.7
Northern Portal	Upstream	10/01/2022	Monthly	2.41	626	70.2	7.88
Northern Portal	Downstream	10/01/2022	Monthly	1.75	620	116.19	8.11
Woolloongabba	Upstream	14/01/2022	Monthly	11.78	32,200	81.09	7.73
Woolloongabba	Downstream	14/01/2022	Monthly	15.15	31,900	81.09	7.78
Boggo Road[1]	Downstream	14/01/2022	Monthly	9.33	14,200	55.67	7.12
Albert Street	Upstream	17/01/2022	Monthly	33.3	33,600	78.66	7.18
Albert Street	Downstream	17/01/2022	Monthly	29.8	33,400	76.16	7.28

- [1] Monitoring at the Boggo Rd site occurs at a pipe outlet at the beginning of the surface catchment. There is no upstream/downstream monitoring point as such. The pipe outlet receives water released from the site, as well as a broader stormwater catchment.

4 Non-Compliances

Details of non-compliances are provided in accordance with Imposed Condition 6(b)(ii).

A Non-Compliance Event is defined as project works that do not comply with the Imposed Conditions. Nil non-compliances occurred during the monitoring period.

Table 9: Non-Compliance Events this Month

Event Title	Location, Date, and time of the event	Date the Event was Formally Notified to CG/IEM	Conditions Affected	Date the Event Report Formally Sent to CG/IEM	Status of Event
Nil					

5 Complaints

Reporting of complaints is provided below in accordance with Imposed Condition 6(b)(iii).

During January 2022, twenty (28) complaints relating to the Project were received, as detailed in Table 10 below.

Table 10: Summary of Complaints

No.	Date	Location	Description of Issue	Responses	Status of Event
1.	5 Jan 22	Kent Street (Southern Portal)	Bikeway Traffic Control	A stakeholder contacted the Project via the Project website regarding the bikeway temporary controls. CBGU attempted to contact the stakeholder multiplel times. No response has been received from the stakeholder.	Closed
2.	6 Jan 22	Tank Street (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
3.	7 Jan 22	Outside Project Area	Worker Behaviour	A stakeholder contacted the Project regarding worker behaviour. CBGU investigated the event and reminded the workforce of employee expectations.	Closed
4.	7 Jan 22	Wickham Terrace (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
				CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	
5.	11 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
6.	12 Jan 22	Roma Street (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
7.	12 Jan 22	Roma Street (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU attempted to contact the stakeholder multipletimes. No response has been received from the stakeholder. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
8.	12 Jan 22	Mary Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
				CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	
9.	12 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU attempted to contact the stakeholder several times. No response has been received from the stakeholder. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
10.	13 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
11.	13 Jan 22	Mary Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
12.	14 Jan 21	Roma Street (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
13.	14 Jan 22	Railway Terrace (Southern Area Works)	Noise.	A stakeholder contacted the Project regarding noise from the Southern Area Works.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
				CBGU provided the stakeholder with an overview of the works occurring and their duration at the Southern Area Works. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	
14.	14 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
15.	15 Jan 22	Mary Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
16.	17 Jan 22	North Quay (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
17.	21 Jan 22	Peter Doherty Street (Southern Area Works)	Noise	A stakeholder contacted the Project regarding noise from the Southern Area Works. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Southern Area Works. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
18.	22 Jan 22	Roma Street (Roma Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Roma Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Roma Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
19.	22 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
20.	22 Jan 22	Northern Portal	Lighting	A stakeholder contacted the Project regarding temporary lighting from the Northern Portal. CBGU reviewed temporary lighting at the northern portal and improved lighting direction and shielding.	Closed
21.	23 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
22.	24 Jan 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU attempted to contact the stakeholder several times. No response has been received from the stakeholder. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
23.	25 Jan 22	Boggo Road (Boggo Road Precinct)	Vehicle Parking	A stakeholder contacted the Project regarding CBGU employee vehicle parking at Boggo Road.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
				CBGU provided informed the workforce of parking requirements and provided the stakeholder with an overview of the actions taken and the stakeholder was thankful for the response and consideration for their concerns.	
24.	28 Jan 2022	Mary Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
25.	28 Jan 2022	Alice Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
26.	29 Jan 22	Rawnsley Street (Southern Area Works)	Traffic	A stakeholder contracted the project regarding truck movements from the Southern Area Works. CBGU investigated the event and informed the subcontractor about appropriate driver behaviour.	Closed
27.	29 Jan 2022	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	Closed
28.	29 Jan 2022	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise from the Albert Street precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration at the Albert Street precinct. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance.	Closed

No.	Date	Location	Description of Issue	Responses	Status of Event
				CBGU also reviewed the circumstances and monitoring confirmed works adhered to project noise requirements, and the works undertaken were consistent with the community notification.	