

The background of the entire page is a detailed, light blue map of the Cross River area. The map shows a complex network of streets, including major thoroughfares and local roads, as well as the winding course of the Cross River itself. The map is rendered in a monochromatic blue color scheme, providing a geographical context for the project.

Cross River Rail Project

Monthly Environmental Report

June 2022

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Executive Summary

This Monthly Environmental Report (MER) has been produced for Project Works undertaken on site for June 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. 13 (March 2022)*. Plus, 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 CBUG 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 13 covering full scope of RIS works is effective from 14 March 2022. TSD – CEMP Revision 10 covering full scope of TSD works is effective from 28 June 2022.
5.	Compliance and Incident management – Non-compliance events, notifications and reporting.	Yes	There were no non-compliance events (NCEs) in June 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 – Noise monitoring was not triggered based on the predictive noises assessments for the relevant project works during the reporting period. TSD – Noise monitoring was undertaken to validate predicted noise modelling and for stakeholder enquiries. Noise monitoring confirmed project requirements were met. 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 –Vibration monitoring was not triggered based on the predictive vibration assessments for the relevant project works during the reporting period. TSD – Vibration monitoring was not triggered based on the predictive vibration assessments for the relevant project works during the reporting period.
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,

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
			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 June.
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 9 and Section 3.2, plus Figures 1). TSD – Refer to Appendix B (Tables 4 and 5 plus Section 3.3).
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 during May. Post-rainfall monitoring was not triggered across all CRR project sites. There was also active surface water discharges to receiving waters from RNA, Northern Corridor and Northern Portal worksites. Results met water quality discharge criteria. TSD – 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 except for Albert Street which recorded total nitrogen levels above baseline monitoring pre-construction data. Routine in stream monthly monitoring and bi-annual monitoring met project water quality requirements. Refer to Appendix A (Tables 11 and 12) for surface water monitoring results.

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
			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 continuously 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 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	NA	N/A

Imposed Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
	upon completion of works or commissioning, and in consultation with Brisbane City Council.		

Non-Compliance Events

There were no NCEs raised in June 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	<i>State Development and Public Works Organisation Act 1971</i>
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 13 was endorsed in March 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.

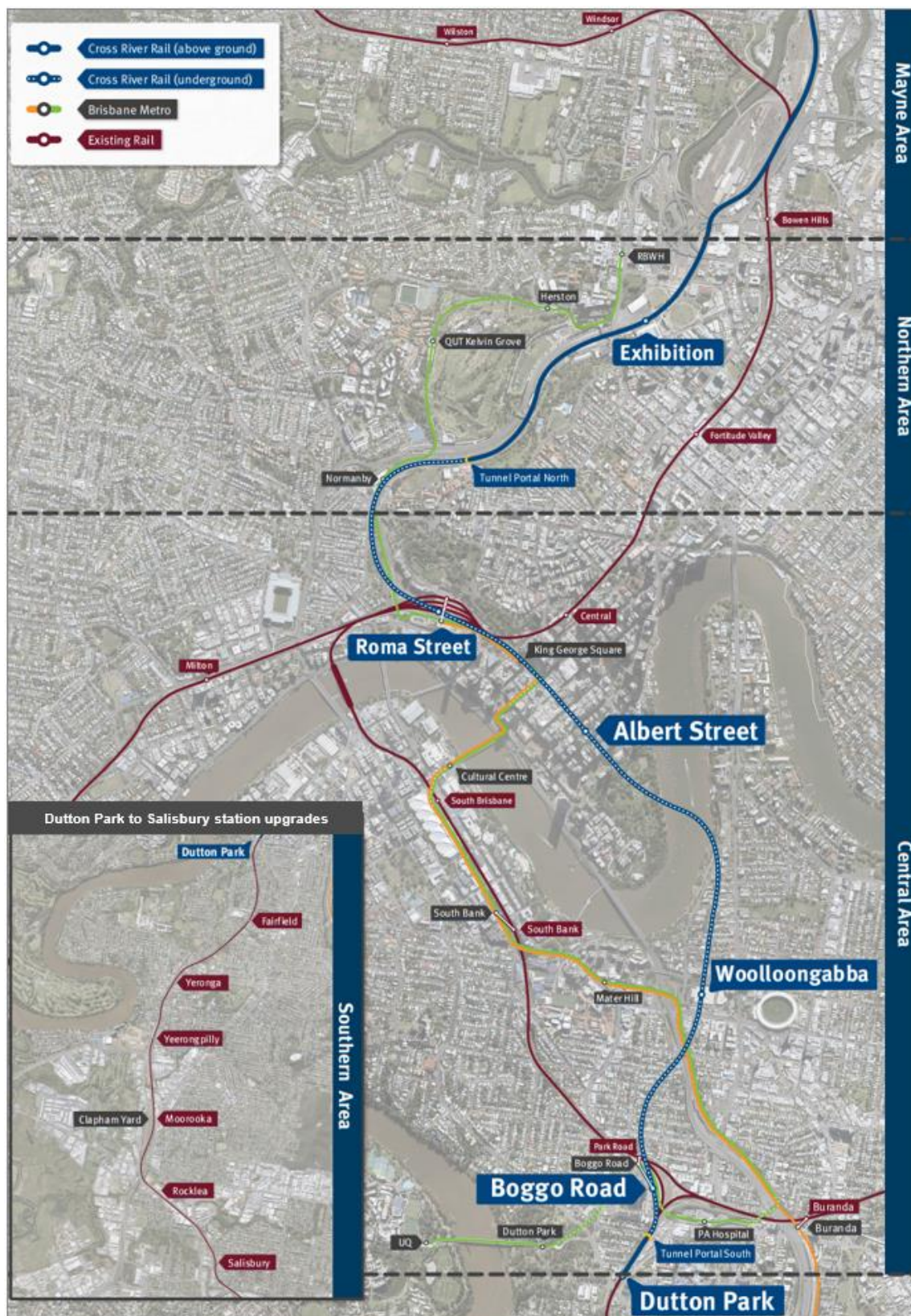
The two main delivery packages which require reporting under the Coordinator-General's imposed conditions are:

- 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.



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 June 2022:

Area	Project Works
Mayne Area	Mayne Yard North – <ul style="list-style-type: none">• Graffiti Removal Facility (GRF) – nearing completion for hand over to QR;• Crew Change Building and car park - nearing completion for hand over to QR;• Yard – all civil scope has been completed for hand over to QR;• Tripod Bridge (BR11/13) – all substructure FRP completed;• RSS Walls for tripod bridge are nearing completion;• Breakfast Ck Bridge (BR08) permanent piling on Southern bank Pier 2 and 3 completed, commenced permanent piling on northern bank at RW150;• CRR Lines – embankment construction including Stage 1 completed and surcharge load nearing release;• RW130 under ICB continues;• BR12 – new QR pedestrian bridge from Bowen Hills, has commenced with preparation works at eastern abutment; and,• Shunt Road (Track) and access Road (road) – earthworks commenced.
Northern Area	RNA/ Northern Corridor – <ul style="list-style-type: none">• EXT #12 SCAS completed;• CSR scope ongoing;• Grated Channels installation completed;• Victoria Park Feeder Station civil scope ongoing;• Watermain underbore complete at Bowen Bridge Road;• BR43 (Ekka Station Western viaduct) Structural Steel Structure complete;• Drainage on Western side of viaduct has nearing completion; and,• Preparations for Ekka 2022 embargo commenced. Northern Portal – <ul style="list-style-type: none">• Base slab works in the TBM extraction box ongoing;• Excavation of portal sump complete with permanent lining FRP works ongoing;

Area	Project Works
	<ul style="list-style-type: none"> • Blinding, cavi drain and base slab installation in open trough section ongoing; and • Intermediatory firewall works ongoing.
Central Area	Roma Street – <ul style="list-style-type: none"> • Services building Level B3 precast walls 100% complete; • Services building B2.5 Mezzanine slab complete, • Station building B4 Base slab 100% complete; • Station building FRP works on back of house and front of house walls; • Station building B3 1st suspended slab pour complete for back of house; • Station cavern RA6 vent trench FRP works continue; • Station cavern 6 of 24 arch lining pours complete; and • Platform 2 temporary canopy demolished, column extensions for new platform steel 100% complete.
	Albert Street – <ul style="list-style-type: none"> • Lot 1 – B10 level base slab FRP works 80% complete and perimeter wall steel fixing ongoing; • Lot 2 – excavation and retention of cavern complete with only AS1 shaft excavation ongoing, invert slab in northern cavern and southern headwall concrete pouring works ongoing; and • Lot 3 – excavation (~99% complete) and ground retention ongoing, and blinding at B4 base slab level commenced.
	Woolloongabba – <ul style="list-style-type: none"> • Station Jump Form System complete, preparation to dismantle in progress; • Level 0 slab complete in zone 2; • Mechanical and electrical building services commenced on B9; • blockwork ongoing on level B9, B7 and B3; • Southern cavern back of house internal structure FRP works complete; and • Northern cavern back of house construction continues.
	Tunnels – <ul style="list-style-type: none"> • TBM tunnels invert pour works ongoing and Low Vibration Track (LVT) blocks placed through TBM 2 and concreted in as part of stage 2 invert pours. • Southern mined upline tunnel ongoing permanent lining (~90%); • Southern mined downline tunnel ongoing permanent lining (~98%); and • Kickers poured in XP2.
	Boggo Road – <ul style="list-style-type: none"> • Northern cavern Back of House internal structures ongoing 95%; • Perimeter walls continuing with some locations now completed to full height; • Concrete to in-situ structure at 48% complete; • Reinforcement to in-situ structure 52% complete; and • Ancillary structure to southern end of station commencing, including new goods lift.
	Southern Portal – <ul style="list-style-type: none"> • Detailed excavation and shotcrete within cut and cover trough ongoing; • Zone E roof slab works completed; • Sewer and stormwater micro tunnelling completed and manhole construction ongoing; • Ongoing open trough base slab drainage works 80% complete; • Boggo Road bridge piling works commenced; and • Commenced Zone A capping beam and roof slabs adjacent to Boggo Road Station box.

Area	Project Works
Southern Area	<p>Dutton Park –</p> <ul style="list-style-type: none"> • Completion of site vegetation and utility clearance scope at Cope Street; • Commenced preliminary demolition of Cope Street properties; • Reinstatement of temporary noise wall at Fenton Street; and, • SCAS for OHLE foundation installation throughout the corridor complete. <p>Fairfield Station –</p> <ul style="list-style-type: none"> • Ongoing installation of inground services; water, sewer, stormwater, electrical, communications, signaling conduiting; • Ongoing installation of overpass foundations including completion of Mildmay St lower-level overpass foundation, completion of tension anchors under PL1, PL 2/3; • Ongoing installation of ‘flowable’ backfill operation throughout PL1 & PL2/3; • Installation of temporary hoarding to correct location following resubmission and approval of applicable deviation with Queensland Rail; • Ongoing installation of lift sump structure and overflow pits; and, • Installation of coping edge support brackets to PL 1 / 2 / 3; <p>Yeronga Station –</p> <ul style="list-style-type: none"> • Continuation of building trades fit-out & rough-in throughout the platform facilities; • Platform 1 and 3 roofing works; • Installation of canopy roofing over Platform 1; • Preparation of lake Street entrance civil works; • Station electrical, comms, cable pulling works ongoing; and, • UTX Crossing North and UTX Crossing South; and • Continuation of Fairfield Rd West overpass foundations, pile cap completion and preparation for column pour. <p>Clapham Yard –</p> <ul style="list-style-type: none"> • SVR for Dual Gauge realignment awarded; • Bridges BR93 (Moolabin Ck) and BR94 (Chale St) – piling completed and FRP scope commenced; • RM620 and RW635 (Retaining walls along Western Boundary and Fairfield Road) Completed; • Drainage scope (Dual Gauge) nearing completion incl the Fairfield Road under-bore; • SEQ watermain protection works commenced; and • CSR works 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

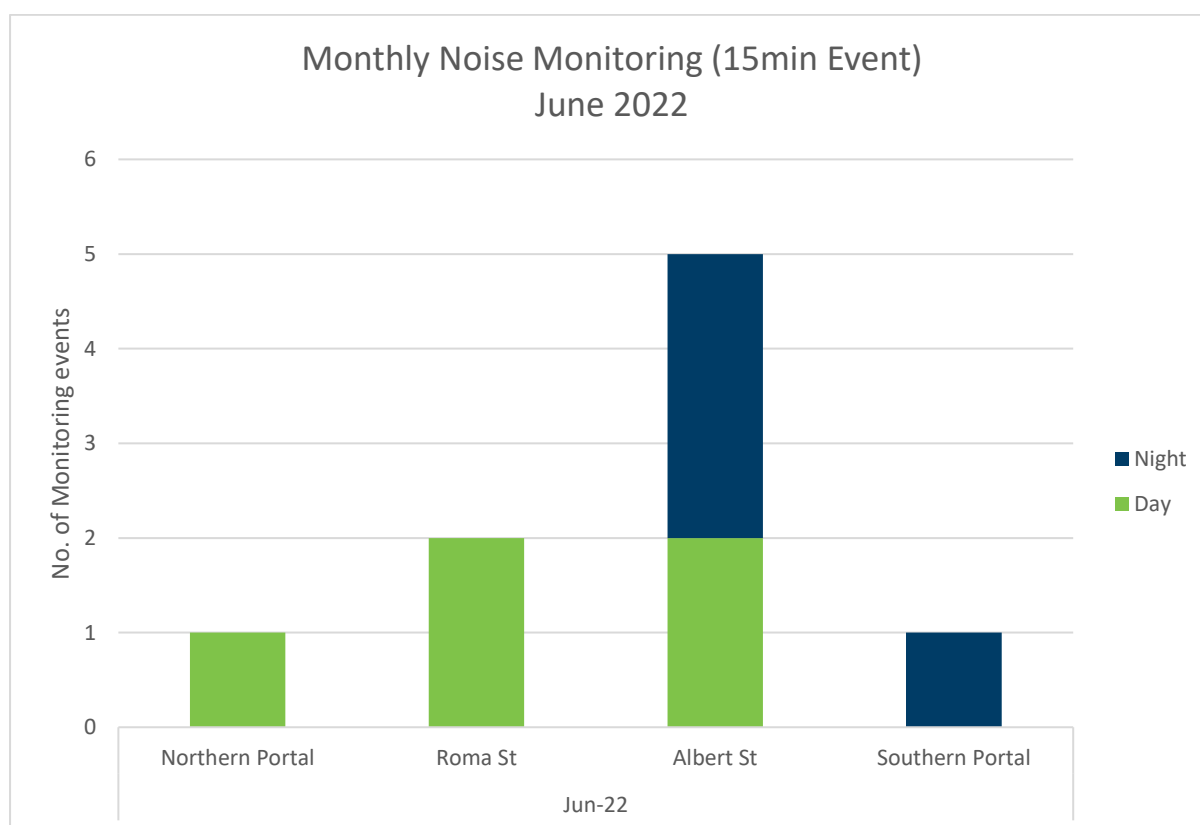
and Vibration Management Plan is being implemented, including communicating construction activities to potential and actual Directly Affected Persons (DAPs). For Project Works where potential noise impacts are predicted to be more than 20dBA above the relevant noise goal, specific engagement is required 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.

In the Northern Area, noise monitoring was undertaken to validate predictive modelling for excavation and spoil haulage at the Northern Portal. Monitoring results for the Northern Area are detailed in **Appendix B** (Table 3). The TSD contractors reported that the project noise requirements have been met.

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 complaints. The TSD contractors reported that the project noise requirements have been met during this reporting month. Monitoring results for the Central Area are detailed in **Appendix B** (Table 3).

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



2.2.2. Vibration

No vibration monitoring was triggered across all areas of the project during the reporting period.

2.2.3. Air Quality

2.2.3.1. Dust Deposition

Dust deposition monitoring was conducted at Mayne, Northern, Central and Southern Areas. Results met the project air quality goal¹ for all active worksites.

Dust deposition results are detailed in **Appendix A** (Table 8 and figure 1) and **Appendix B** (Table 4.2).

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 met air quality goal
		Peter Doherty Street/Leukemia Foundation	- Results met air quality goal
	Southern Portal	Dutton Park Station	- Results met air quality goal
		PA Hospital - Central Energy Unit along Kent Street	- Results met air quality goal
	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
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 (PM₁₀) and total suspended particulates (TSP) was conducted at, Northern, Central and Southern Area worksites. Results met the project goals at all active worksites.

The Mayne Yard and RNA air quality monitors were undergoing their bi-annually factory calibrations resulting in no data being recorded for June 2022. Consistent with the CEMP, other qualitative parameters have been used to ascertain compliance with the air Quality Project Objectives and have been achieved. This included:

¹ CG air quality goal for dust deposition - 120µg/m² (over an averaging period of 30 days).

- The dust deposition results recorded no exceedance of the relevant goal;
- There was no evidence of dust being generated and leaving the site boundaries when routine inspections were carried out;
- DES regional air quality monitoring demonstrated air quality levels below project goals; and
- There were no complaints received associated with air quality concerns during the reporting period across the Mayne and Northern Area sites

The Albert Street air quality unit was inactive on 15 and 16 June 2022 as it was being relocated to 79 Albert Street. On 26 June 2022, the Albert Street air quality unit recorded PM₁₀ levels slightly above the air quality goal. Upon investigation, the contractor confirmed that no works were occurring at the time of the exceedance. The levels recorded throughout the month while construction works were occurring were below the goals and therefore the exceedance could not be attributed to project works. The review of a nearby DES air quality monitoring station (Brisbane CBD) demonstrated PM₁₀ levels on the days when the Albert Street air quality unit was inactive and exceeded the goal, were compliant with project air quality goals.

The Clapham Yard air quality monitor was removed from site and sent to the manufacturer in NSW for inspection in May due to ongoing faulting issues resulting in no TSP or PM₁₀ data in June. Similar to the Mayne and Northern sites, other qualitative parameters were used to ascertain compliance with the Air Quality Project Objectives and were achieved.

Particulates results are detailed in **Appendix A** (Section 3.2.2) 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	- Monitoring unit was offsite for factory calibration and further investigation into issues.
Northern Area	RNA / Exhibition	RNA showgrounds	- Monitoring unit was offsite for factory calibration and further investigation into issues.
	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 - Monitor relocated on 15 and 16 June 2022 - PM ₁₀ Exceedance recorded on 26 June 2022, however, no Project Works were occurring on this day.
	Boggo Rd / Southern Portal	North-east of Boggo Road worksite	- Results met air quality goals
	Woolloongabba	Place Park, Woolloongabba	- Results met air quality goals.
Southern Area	Clapham Yard	Clapham Yard	- Monitoring unit was offsite further investigation into issues.

2.2.4. Water Quality

Water quality monitoring and reporting was undertaken in accordance with the contractors CEMP and Water Quality Management Plans.

2.2.4.1. Surface Water

Active surface water discharges occurred from the RNA, Northern Corridor and Northern Portal worksites through dewatering activities. Post-rainfall water quality monitoring was not triggered across all Cross River Rail worksites.

In the Northern Area, water quality monitoring was triggered on 22 occasions from the Northern Portal worksite as water used for construction activities was treated and actively discharged to the stormwater network. Water quality monitoring was triggered at the Northern Corridor and RNA worksites due to discharging of leaking potable water mains in the proximity of Project Work excavations. Consistent with the CEMP, the water quality was tested to ensure it met the discharge requirements. The contractor confirmed the discharge criteria was met. See **Appendix A** (Table 12) and **Appendix B** (Table 7) for further details.

Post-rainfall monitoring in receiving waters across all Cross River Rail worksites was not triggered during the reporting period.

Routine surface water quality monitoring was undertaken in the receiving waters of all TSD and RIS 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. See **Appendix A** (Table 11) **Appendix B** (Table 8) for further details.

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	No	Yes	<ul style="list-style-type: none"> - ESC was implemented in accordance with site specific ESC Plan. - Bi-annual in-stream monitoring undertaken in accordance with WQMP.
Northern Area	Northern Portal	Yes	No	Yes	<ul style="list-style-type: none"> - Active surface water discharge met water quality investigation criteria. - Routine in-stream monitoring undertaken in accordance with WQMP.
	Northern Corridor	Yes	No	N/A	<ul style="list-style-type: none"> - Active surface water discharge met water quality investigation criteria. - ESC was implemented in accordance with site specific ESC Plan.
	RNA/Exhibition	Yes	No	N/A	<ul style="list-style-type: none"> - Active surface water discharge met water quality investigation criteria. - ESC was implemented in accordance with site specific ESC Plan.
	Albert Street	No	No	Yes	<ul style="list-style-type: none"> - Post-rainfall monitoring undertaken.

Surface Water Quality Monitoring					
Area	Worksite	Discharge	Post-Rain Monitoring	Routine Monitoring	Comments
Central Area					- 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.
Southern Area	Clapham Yard	No	No	Yes	- ESC was implemented in accordance with site specific ESC Plan. - Bi-annual 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 and dissolved oxygen. However, these results are consistent with the receiving environment baseline monitoring pre-construction data, except for Albert Street which recorded nitrogen levels above the baseline monitoring pre-construction data. It is not uncommon for high levels of these 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.

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
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.
	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

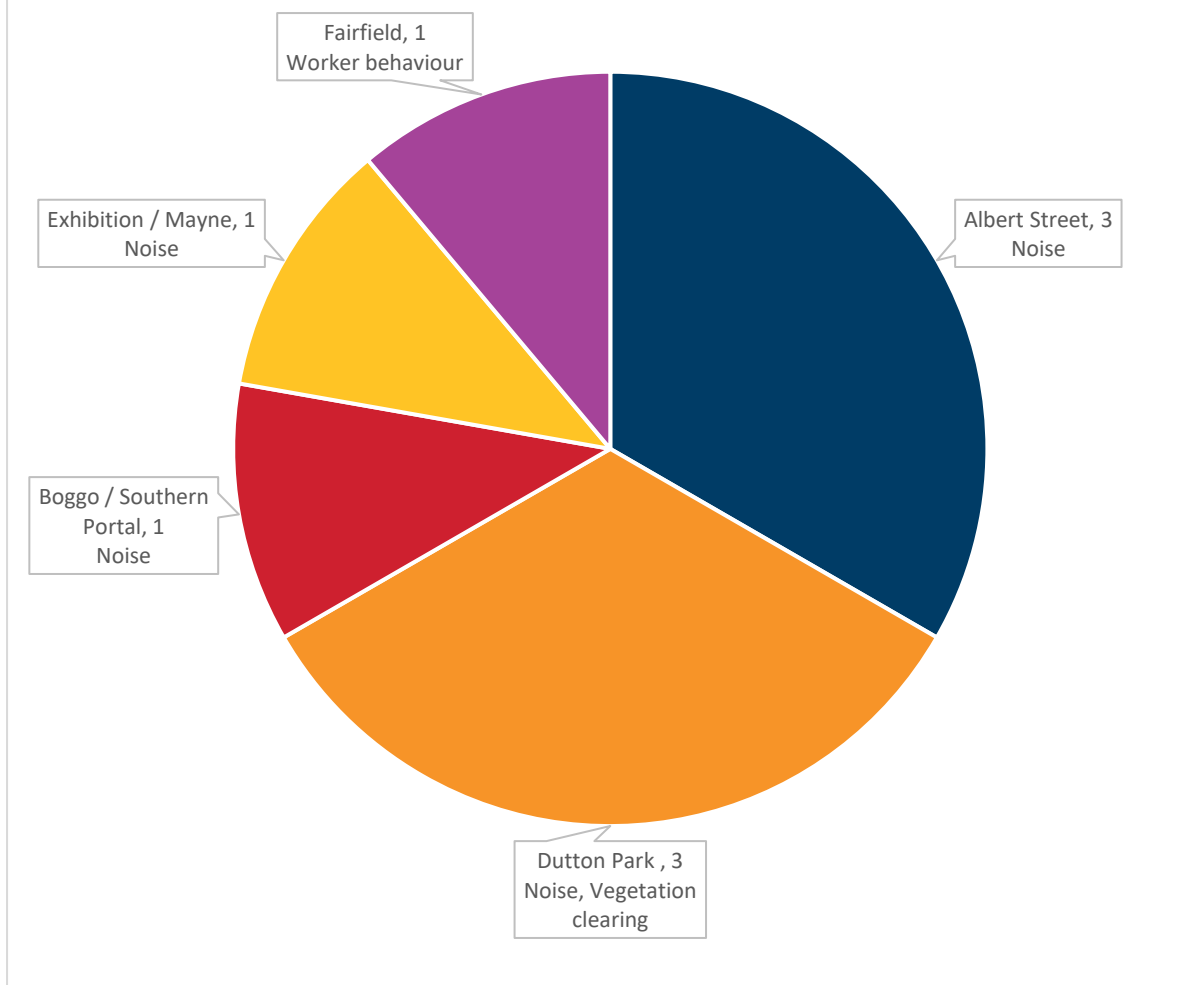
A total of 9 complaints were received during the month all of which were project related.

RIS works received 5 complaints this month related to noise, worker behaviour and vegetation clearing at the Fairfield, RNA and Dutton Park worksites. For further details refer to **Appendix A** (Table 3).

TSD activities received 4 complaints related noise at Albert Street and Boggo Road worksites. For further details refer to **Appendix B** (Table 10).

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

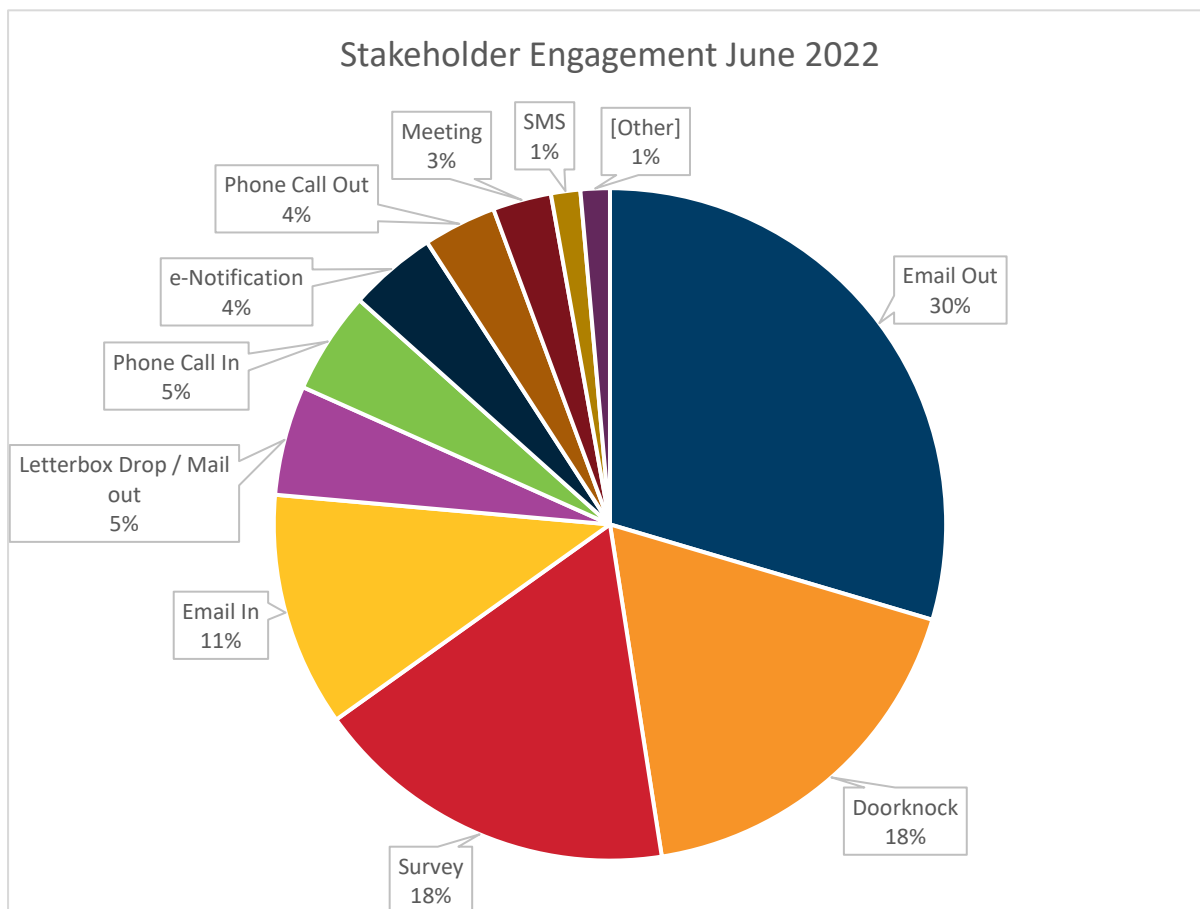
Project Complaints Summary June 2022



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 – <ul style="list-style-type: none"> Testing and Commissioning for nearing Mayne Yard Handover; Graffiti Removal Facility completion; Crew Change Building completion; BR08 (Breakfast Ck Bridge) FRP scope; DLP area commence demolition of QR facilities; and Yard – SER/PER fit out.
Northern Area	RNA/ Northern Corridor – <ul style="list-style-type: none"> Victoria Park Feeder Station piling and FRP scope; Commence OHLE foundations through corridor; CSR scope through RNA section and Western viaduct; and Ekka embargo commencing 15 July 2022. Northern Portal – <ul style="list-style-type: none"> Installation of remaining deck units in August; and Headwall installation in late June.
Central Area	Roma Street – <ul style="list-style-type: none"> Cavern permanent arch pours; Station building ongoing perimeter wall and B3 slab pours;

Area	New planned works in the coming months
	<ul style="list-style-type: none"> Services building pre-cast panel installation and concrete pours; and Infill around INB underpinning columns. <p>Albert Street –</p> <ul style="list-style-type: none"> Lot 1 – Complete B10 slab pour station structure FRP works; Lot 2 – micro-blasting of service adit works and cavern arch lining pours to commence in August; and Lot 3 – Excavation completion in June. <p>Woolloongabba –</p> <ul style="list-style-type: none"> Jump Form System to be dismantled; Blockworks on B3, B7 and B9; Southern cavern mezzanine beam install continues; Northern cavern arch lining contact grouting works; and Continuation of back of house FRP works. <p>Boggo Road –</p> <ul style="list-style-type: none"> Concrete wall steel fixing and concrete pours ongoing; and Delivery and installation of pre-cast mezzanine beams and station box culverts delivery in August. <p>Southern Portal –</p> <ul style="list-style-type: none"> Base slab installation to recommence in July; 2nd bench of excavation to commence in July; Shaft 3 and 4 manhole construction works to commence in June; and Upcoming SCAS works July.
Southern Area	<p>Dutton Park –</p> <ul style="list-style-type: none"> Completion of demolition of Cope Street properties; Completion of temporary noise wall reinstatement; Continue site establishment and creating site access; and Major works will commence in the Dutton Park area from October 2022 in readiness for the closure of the Up Platform. <p>Yeronga Station –</p> <ul style="list-style-type: none"> Fairfield Rd West – Complete the structural column early July, install the Fairfield road overpass modules in July; Fairfield Overpass (over track component) – ongoing fit-out, lift installation, cladding, finishing and stairs; Station buildings – Fit out, painting, joinery, flooring; and Station entrances – Completion of FRP, landscaping and general tidy up scope. <p>Fairfield Station –</p> <ul style="list-style-type: none"> Continue inground service installation (water, stormwater, sewer, electrical, communications and security) and commencement of structural foundations for the overpass and platform structures; First structural steel to be erected (overpass columns, Platform 2 canopy steel); and, Platform slabs to commence in August. <p>Clapham Yard –</p> <ul style="list-style-type: none"> Remediation of area outside the LCA (retaining wall scope) and removal of barriers along Fairfield Road; Complete pipe jacking under Fairfield Road; Complete Retaining Wall RW650 in front of Aurizon facility. Continue CSR scope and commence pavements; and

Area	New planned works in the coming months
	<ul style="list-style-type: none"> Continue FRP works at Moolabin Creek Bridge (BR93) and Chale St Bridge (BR94);

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
<input checked="" type="checkbox"/> Open									
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> 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 June 2022

**Cross River Rail – Rail, Integration and Systems
Alliance**

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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 <ul style="list-style-type: none"> Graffiti Removal Facility (GRF) – nearing completion for hand-over to QR end-July. The flood damaged cladding and roofing is being replaced mid-July to mid-Aug. Crew Change Building incl Car Park - nearing completion for hand-over to QR end-July Yard – all civil scope has been completed for hand-over to QR end-July with line marking, testing and commissioning to continue throughout July QR's temporary Access Road to new Yard and new facilities completed Tripod Bridge (BR11/13) – All substructure FRP completed, and RSS walls being completed in July Breakfast Ck Bridge (BR08) permanent piling southern bank Pier 2 and 3 completed, as well as construction of temporary jetty North. Commencement of perm piling on northern bank at RW150. CRR Lines – embankment construction including Stage 1 completed and surcharge load nearing release. RW130 - Retaining wall on Eastern side under ICB overpass continues BR12 – new QR pedestrian bridge from Bowen Hills, has commenced with preparation works at Eastern abutment Shunt Road (track) and Access Road (road) – earthworks commenced.
Northern Area	RNA / Northern Corridor <ul style="list-style-type: none"> BR43 (Ekka Station Western viaduct) Superstructure Complete Drainage on Western side of viaduct nearing completion Preparations for Ekka '22 embargo commenced Extended SCAS #12 successful delivered CSR scope ongoing Grated Channels installation completed Victoria Park Feeder Station civil scope ongoing Watermain underbore complete at Bowen Bridge Road RW260 completed TSD Access track through Victoria Park/Gregory Tce has been removed and remediated by UNITY.

Area	Project Works
Southern Area	<p>Yeronga Station</p> <ul style="list-style-type: none"> Continuation of building trades fit-out and rough-in throughout the platform facilities Platform 1 and 3 Roofing works Installation of canopy roofing over PL1 Preparation for Lake St entrance civil works Station electrical, comms, cable pulling works ongoing UTX Crossing North UTX Crossing South Continuation of Fairfield Rd West overpass foundations, pile cap completion and preparation for column pour. <p>Fairfield Station</p> <ul style="list-style-type: none"> Ongoing installation of inground services; water, sewer, stormwater, electrical, communications, signalling conduiting Ongoing installation of overpass foundations including completion of Mildmay St lower-level overpass foundation, completion of tension anchors under PL1, PL 2/3 Ongoing installation of 'flowable' backfill operation throughout PL1 & PL2/3 Ongoing installation of lift sump structure and overflow pits Installation of coping edge support brackets to PL 1 / 2 / 3 Installation of temporary hoarding to correct location following resubmission and approval of applicable deviation with Queensland Rail. <p>Southern Portal / Dutton Park</p> <ul style="list-style-type: none"> Completion of site vegetation and utility clearance scope at Cope St was achieved early June Work crews mobilised and commenced preliminary demolition of the Cope St properties toward the end of June Work crews mobilised for reinstatement of the temporary noise wall at Fenton St towards the end of June Weekend SCAS on 18/19 June was focused on OLE foundation installation throughout the corridor. <p>Clapham Yard</p> <ul style="list-style-type: none"> SVR for Dual Gauge realignment awarded Bridges BR93 (Moolabin Ck) and BR94 (Chale St) - piling completed and FRP scope commenced RW620 and RW635 (retaining walls along Western boundary and Fairfield Road) completed Drainage scope (Dual Gauge) nearing completion incl the Fairfield Road under-bore SEQ Watermain protection works commenced CSR works 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 <ul style="list-style-type: none"> Testing and Commissioning for nearing Mayne Yard Handover Graffiti Removal Facility completion Crew Change Building completion BR11/13 RSS walls completion and lifting of deck units DLP area (East of MY-East) commence demolition of QR facilities BR08 (Breakfast Ck Bridge) FRP Works Yard – SER/PER fit out. Yard – Signal Testing and Commissioning.
Northern Area	RNA / Northern Corridor <ul style="list-style-type: none"> CSR scope through RNA section and Western viaduct Ekka embargo commencing 15 July '22 Victoria Park Feeder Station piling and FRP scope Commence OHLE foundations through corridor.
Southern Area	Yeronga Station <ul style="list-style-type: none"> Fairfield Rd West – complete the structural column early July, install the Fairfield Rd overpass modules mid July Fairfield Overpass (track component) – Ongoing fit out, lift installation, cladding, finishing, stairs Station buildings – Fit out, painting, joinery, FF&E, flooring Station entrances – Completion of FRP, landscaping and general tidy up scope. Fairfield Station <ul style="list-style-type: none"> The focus will be to continue with the inground services installation (water, stormwater, sewer, electrical, communications, security) and commencement of structural foundations for the overpass and platform structures. In late July the first structural steel is to be erected (overpass columns, PL2 canopy steel) Platform slabs to commence in the first week of August. Southern Portal / Dutton Park <ul style="list-style-type: none"> Completion of demolition of Cope St properties in July 22 Completion of temporary noise wall reinstatement in July 22 Continue site establishment and creating site access through July 22 Major works will commence in the Dutton Park area from October 2022 in readiness for closure of the UP Platform in Nov-22. Clapham Yard <ul style="list-style-type: none"> Remediation of areas outside the LCA (retaining wall scope) and removal of barriers along Fairfield Road Complete pipe jacking under Fairfield Road Continue CSR scope and commence pavements Continue of Chale St Bridge (BR94) and Moolabin Creek Bridge (BR93) FRP scope Commence Retaining Wall RW650 in front of Aurizon facility.

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	Project Works / Activity source of the concern	Reporting Period	Complaint Detail	Unity Response	Status
Monday 6 June	Southern	Tree clearing at Cope Street	Clearing works	June 2022	The stakeholder contacted the project to advise that they objected to the clearing of the trees on land acquired at Cope Street as part of the Dutton Park Station upgrade.	<p>The project team had briefed the stakeholder on previous occasions about the tree clearing on the Cope Street properties.</p> <p>The Project team however contacted the stakeholder to offer them to meet on site to give them a detailed walk through of the scope of works, inclusive of the staging so they could further understand the requirements for the tree removal.</p>	Closed

Date Received	Location	Issue	Project Works / Activity source of the concern	Reporting Period	Complaint Detail	Unity Response	Status
Tuesday 7 June	RNA	Noise	Project works in the rail corridor	April to June 2022	The stakeholder contacted the project team requesting noise monitoring data for the period of April to June 2022 for one particular property. The stakeholder advised they had received a noise complaint recently from a tenant at that property, where the tenant stated the noise were as a result of Project works.	<p>The project team contacted the stakeholder to obtain details of the day / month the tenant's complaint was pertaining to. No further details could be provided.</p> <p>The team also advised the stakeholder that noise monitoring was typically carried out to validate noise emissions from Project Works and as a response to Complaints.</p> <p>The team informed the stakeholder that the project does not typically carry out continuous noise monitoring (i.e., monitoring over extended periods of days / weeks or months).</p> <p>The team informed the stakeholder that the environmental team had in the past carried out numerous noise monitoring events at the residence, both attended indoors monitoring and attended outdoors events. These events were typically carried out during noise intensive activities (e.g., rock breaking).</p> <p>The team also informed the stakeholder that the intensity of the works in the vicinity of the residence had significantly reduced since. The team however offered that in the event of another complaint from their tenant, the stakeholder should contact the project team so noise monitoring could be coordinated in a timely manner to respond to the complaint.</p>	Closed

Date Received	Location	Issue	Project Works / Activity source of the concern	Reporting Period	Complaint Detail	Unity Response	Status
Tuesday 7 June	Southern	Noise and light	Site establishment	June 2022	The stakeholder contacted the project team to advise that equipment at the Cope Street compound was generating noise and light that they found disturbing.	<p>The project team contacted the stakeholder to advise that the lights were installed for security purposes and had been positioned away from the stakeholder's residence.</p> <p>The project team also advised the generator was being used to power the security lights and maintain proper to site amenities (fridges). The generator has been enclosed in noise blankets to mitigate noise emissions.</p> <p>The project team contacted the site supervisor to check the security lighting orientation and to see if an alternative enclosure around the generator may provide additional noise buffering to which was provided by the noise blankets.</p>	Closed
Tuesday 7 June	Southern	Tree clearing at Cope Street Noise wall design	Dutton Park station upgrade	June 2022	<p>The stakeholder raised concerns about the proposed clearing of vegetation within the footprint of the future Dutton Park Station and requested some additional information on the management of Operational Noise matters. .</p> <p>The stakeholder advised they had recently contacted the project team and had received an overview of the proposed development in the area.</p>	<p>The project team had briefed the stakeholder on previous occasions about the tree clearing on the Cope Street properties.</p> <p>An onsite meeting was organised to give the stakeholder a detailed walk through of the scope of works, inclusive of the staging so they could further understand the requirements for the tree removal.</p>	Closed
Friday 17 June	Fairfield	Parking	Workers' parking on street	June 2022	Stakeholder complained about construction team parking on Fanny Street, Annerley.	Team called and emailed stakeholder to advise that the issue has been raised with the site team.	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

Attended noise monitoring was not triggered based on the predictive noise assessments for the Relevant Project Works during the reporting period.

Complaint-based noise monitoring because of Project Works was triggered during the reporting period. However, the Community and Stakeholder Engagement Team who initially received the complained consulted with the stakeholder as part of the initial response. The stakeholder was satisfied with the outcome of the consultation. Attended noise monitoring was therefore not carried out.

3.1.2 Noise Monitoring Results

Table 4: Summary of Noise Monitoring Data

Location	Receiver Type Details	Type of Monitoring	Work Hours	Monitoring date and time	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 Error! Reference source not found.
	N/A – not triggered during monitoring period													

- 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 Queensland¹.
 - 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 vibration 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	Vibration intensive equipment	Maximum predicted vibration Level (mm/s)	Shortest distance between Equipment and Sensitive Place (m) @Time of Monitoring"	Maximum recorded vibration level (mm/s)	Vibration goal for receiver (mm/s)	Exceedance of vibration limit?	Comments
-	-	-	-	-	-	-	-	-	-	-	-	-

3.1.5 Interpretation

The RIS scope of works continues to achieve the outcomes set out by the CGCR and OEMP.

3.1.6 Vibration Monitoring

The RIS scope of works continues to achieve 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 24 inspections were undertaken by the Environment Team across Mayne Yard, RNA Showgrounds, Southern Area, Fairfield Station, 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	Inactive DMP was removed 11 May 2022 for bi-annual factory calibration. CAQP confirmed that the Mayne Yard DMP can be temporarily decommissioned. Refer section 3.2.6 for more details
TSP / PM ₁₀ Monitor	Clapham Yard (Eastern Air Shed)	Clapham Yard	9 August 2021	Partially active until 21 June 2022 DMP malfunctioned for the entire monitoring period.
TSP / PM ₁₀ Monitor	RNA (Western Air Shed)	RNA	25 August 2020	Inactive DMP was removed 11 May 2022 for bi-annual factory calibration

3.2.1 Dust results

As passive dust deposition gauges (DDG) are analysed monthly, results span:

- RNA and Mayne Yard:
 - 11 May 2022 to 10 June 2022
 - 10 June 2022 to 11 July 2022

- Clapham Yard
 - 12 May 2022 to 13 June 2022.
 - 13 June 2022 to 11 July 2022.

As per AS/NZS 3580.10.1, section 7.3, for routine monitoring programs, the period of exposure is 30±2 days. All of the sites met the required exposure period.

The deposited dust results are detailed below. All sites 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)	
Monitoring Period	11 May 2022 to 10 June 2022	10 June 2022 to 11 July 2022	11 May 2022 to 10 June 2022	10 June 2022 to 11 July 2022	12 May 2022 to 13 June 2022	13 June 2022 to 11 July 2022
120	20	10	27	23	7	20
Total Rainfall during Period (mm)	125	27	149	28	261	59

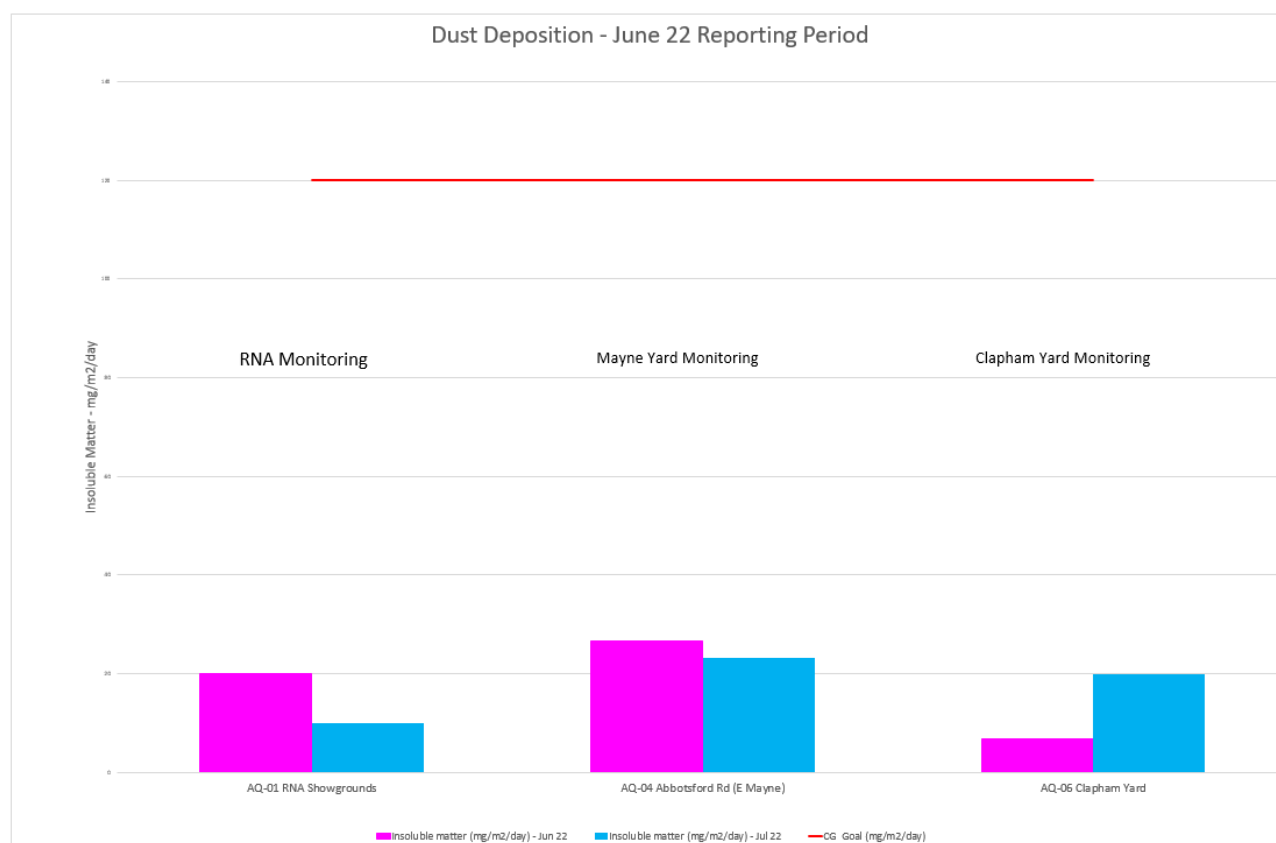


Figure 1 Air Quality Monitoring (Deposited Dust) Results

3.2.2 Particulates results

3.2.3 Air Quality Monitoring Stations

UNITY had no active air quality monitoring stations in place for the reporting period as detailed in Table 6.

The Mayne Yard and RNA DMP were being factory calibrated.

As presented in the May 2022 report, the manufacturer requested the Clapham DMP be removed from site and sent for inspection to their facility in NSW, due to ongoing malfunctions despite recent factory calibration.

At the time this report is being written the Mayne Yard DMP's factory calibration is complete and the DMP has been returned to site. Based on the review by the Project's CAQP (more details in Section 3.2.6), the DMP has not been re-instated at Mayne Yard.

Based on the review of program lookahead UNITY and proposed scale duration and intensity of Project Works which may impact air quality, UNITY re-instated the Mayne Yard DMP at Clapham Yard. Indeed, there are ongoing bulk earthworks at Clapham which require ongoing monitoring as per the predictive assessment. .

The DMP was installed at Clapham Yard on 06 July 2022.

3.2.4 Monitoring Results – Annual Averaging

Imposed Condition 13 (a) sets annual average air quality goals for TSP (Human health) and PM₁₀ (Human health).

The below table summarises where TSP and PM₁₀ 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 PM₁₀ monitoring was 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	<i>Indicative only</i> Data capture did not meet 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	Mayne Yard (Eastern Air Shed)	23 April 2020	Not yet decommissioned	Period 1 (to 23 April 2021) 358 over 365 days Period 2 (24 April 2021 to 25 April 2022) 364 over 365 days Period 3 (starting 26 April 2022) 3 days over 66 days	Period 1 98% over 365 days Period 2 99% Over 365 days Period 3 5% Over 66 days	Applicable for Period 1 Data capture met minimum data capture requirements Applicable for Period 2 Data capture has met minimum data capture requirements Applicable for Period 3 Data capture has not met minimum data capture requirements
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) 319 over 365 days Period 3	Period 1 86% over 365 days Period 2 97% Over 354 days	Applicable for Period 1 Data capture met minimum data capture requirements Applicable for Period 2 Data capture met minimum data capture requirements
TSP / PM ₁₀ Monitor	Clapham Yard (Eastern Air Shed)	1 February 2021	Not yet decommissioned	Period 1 (to 31 January 2022) 326 over 364 days Period 2 (starting 01 February 2022) 91 over 150 days	Period 1 90% over 364 days Period 2 60% Over 150 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

The below table summarises the applicable and indicative annual data results for TSP and PM₁₀ 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	<i>8 µg/m³</i>	11 µg/m ³	18 µg/m ³	8 µg/m ³
		Period 2	-	10 µg/m ³	15 µg/m ³	Not applicable

Air Quality Indicator	Goal	Period	Northern Corridor	Mayne Yard	RNA	Clapham Yard
		Period 3	-	Not yet 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	-	7 µg/m ³	10 µg/m ³	Not applicable
		Period 3	-	Not yet applicable	-	-

3.2.5 Interpretation

There is no PM₁₀ and TSP data for the reporting period.. However, consistent with Attachment 4 of the C-EMP other qualitative parameters can be used to ascertain compliance with the Air Quality project objectives:

- None of the dust deposition results exceeded the relevant goal
- There was no evidence of dust being generated and leaving the site boundaries when carrying out routine inspection
- There were no complaints received associated with air quality concerns during the reporting period for the Mayne Yard, Clapham Yard, and RNA sites.

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

3.2.6 Mayne Yard DMP Temporary Decommissioning

The Project's CAQP carried out a review the predictive modelling compared to actual project works at Mayne Yard to date. This also included a review of the air quality results collected to date.

Air Quality monitoring has been undertaken at Mayne Yard North since early 2020, in accordance with the Air Quality Modelling and Assessment Report (developed as per Imposed Condition 4c).

The report recommended monitoring at a location representative of sensitive receptors during high-risk activities (stage 1A, 2A, 3 and 4).

Monitoring was carried out as per the report's recommendation.

Based on a review of the program status the monitoring results collected to date are representative of Stage 1A, Stage 1B, Stage 2A (with the most intensive earthworks completed at the time the review was done) and Stage 3.

Over the entire monitoring period there have been no measured exceedances of the Air Quality Goals that can be associated with the project works.

The highest recorded results that can be associated with Active Project Works are 1.5 to 3 times lower than the worst-case predictive results.

Additionally, there have been zero complaints from sensitive receptors regarding air quality as a result of project works at Mayne Yard.

Per the C-EMP monitoring Schedule, TSP and PM₁₀ should be monitored on a continuous basis initially to validate the model and then as required if monitoring data demonstrates compliance with criteria.

Unity proposes that air quality monitoring at Mayne Yard North has gathered sufficient data to validate the predictive modelling and demonstrate compliance with CG conditions.

- Monitoring requirements have been met- high risk activities have concluded or are substantially progressed at Mayne Yard North and will not re-commence until late 2023 (Stage 4)

- Monitoring has been occurring per the requirements of the C-EMP for over two years now with zero exceedances of air quality goals because of project works.
 - One exceedance occurred 20/08/2020 which was because of a regional weather event.
- Zero complaints have been received from the community regarding air quality for the duration of the works

Due to these factors, Unity will reduce air quality monitoring at Mayne Yard by temporarily decommissioning the DMP at Mayne Yard until Stage 4 works commence. Stage 4 works are planned to commence in November 2023.

Dust deposition monitoring will however continue and remains in place.

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 during the reporting period.

Water quality monitoring to demonstrate compliance with Condition 15(b) and Condition 18 was triggered during the reporting period for:

- routine surface water monitoring (bi-annual frequency), and
- active surface water discharges (e.g., dewatering through pumping, sediment basin release) to receiving waters.

3.3.1 Rainfall Records

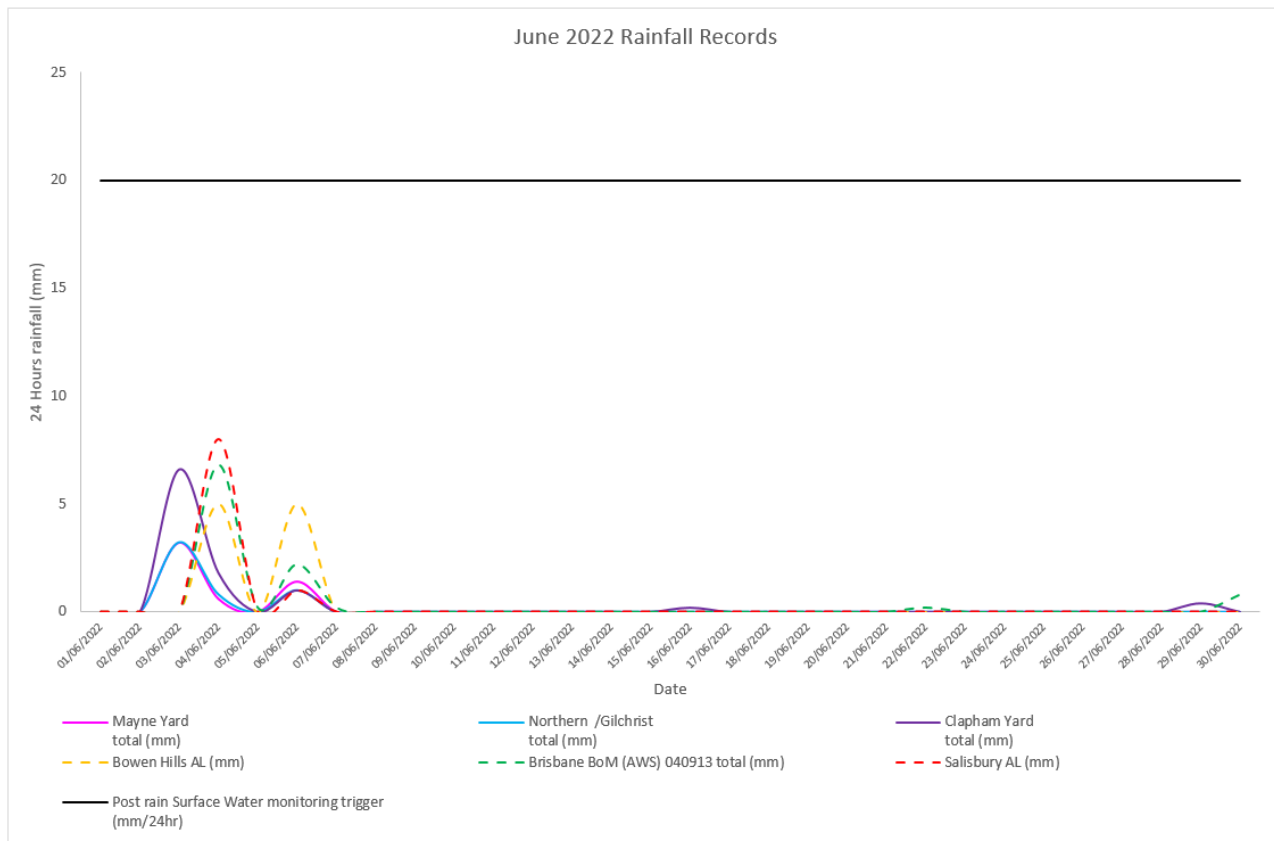


Figure 2: June 2022 Rainfall Records

3.3.2 Post Rainfall Monitoring Results

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.

Post rainfall monitoring was not triggered for the reporting period.

3.3.3 Routine Surface Water Monitoring Results

During the reporting period, UNITY undertook one (1) round of surface water quality monitoring which aligns with the dry season (April to August).

This reduction of monitoring frequency is acceptable to continue informing the Dis-1 Credit for the ISCA 'excellent Rating' the Project is pursuing.

Table 10: Routine Surface Water Monitoring Results

Date	Location	Waterway	Tide	Turbidity (NTU)	TSS (mg/L)	DO (%)	pH (pH unit)
27 June 2022	SW-1 – Upstream of Mayne Yard	Breakfast Creek	Falling brackish to marine conditions	Field: 4.68 Lab: 3.9	5	99	7.2
27 June 2022	SW-2 – Adjacent to Mayne Yard	Breakfast Creek	Falling brackish to marine conditions	Field: 1.74 Lab: 4.9	6	87	7.5
27 June 2022	SW-3 – Downstream of Mayne Yard	Breakfast Creek	Falling brackish to marine conditions	Field: 1.56 Lab: 5.1	<5	91	7.4
27 June 2022	SW-4 – Downstream of Northern Corridor	Barrambin / York's Hollow	Not applicable – non-tidal environment	Field: 15.0 Lab: 16.6	25	71.9	7.9
27 June 2022	SW-5 – Upstream rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Field: 6.35 Lab: 11.1	<5	86	7.6
27 June 2022	SW-6 – Downstream of rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Field: 11.77 Lab: 24.9	57	71	7.6
27 June 2022	SW-6A – Downstream of rail corridor	Moolabin Creek	Not applicable – non-tidal environment	Field: 8.5 Lab: 9.4	<5	63	7.4
27 June 2022	SW-7 – Upstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 3.09 Lab: 6.0	<5	80	7.6
27 June 2022	SW-8 – Downstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 5.03 Lab: 7.2	<5	79.7	7.6
27 June 2022	SW-8A – Downstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 4.0 Lab: 7.0	<5	74.7	7.5
27 June 2022	SW-9 – Downstream of rail corridor	Rocky Water Holes Creek	Not applicable – non-tidal environment	Field: 0.14 Lab: 2.9	<5	84.5	7.7

3.3.4 Groundwater Discharge Monitoring Results

Groundwater discharge monitoring was not triggered during the reporting period.

3.3.5 Surface Water Discharge Monitoring

Third party leaking potable water mains (not Project Related) in the proximity of excavation works in RNA and the Northern corridor resulted in potable water entering these excavations within the Project Works. These excavations required dewatering to enable Project Works to continue.

Consistent with the C-EMP, when water could not be re-used on site (e.g., as dust suppression) or when land release had the potential to reach stormwater system (due to saturated ground conditions) water was proposed to be discharged directly or indirectly to receiving waters (either a creek or stormwater drainage) the water quality was tested to ensure it met the discharge requirements.

The below table summarises the off-site water releases to receiving waters that were authorised under a Permit to Dewater as per the Project's requirements.

All key physical water quality parameters were confirmed to meet the Discharge Criteria prior to a first dewatering permit being issued using a combination of in situ readings and laboratory samples. Ongoing dewatering of the same source water was subsequently verified by regular in situ testing and spot laboratory samples.

Table 11: Surface Water Discharge Monitoring Results

Date – Start	Date Finish	Location	Waterway	Discharge Criteria ²			
				Turbidity (NTU) Nil until Turbidity / TSS correlation achieved ³	TSS (mg/L) <50	DO (%) Nil	pH (pH Unit) Stable pH reading; and General sites: 6.5 – 8.5, or Wallum/Acidic Ecosystems: 5.0 – 7.0
02/06/2022	13/06/2022	Northern Corridor	Multiple campaign discharges to stormwater drain ultimately discharging to Enoggera / Breakfast Creeks	Field: ranging from 1 to 27 NTU Lab: 1.6 NTU	<5 mg/L	91 to 108 % pre discharge	7.1 to 8.35
13/06/2022	16/06/22	RNA	Single campaign discharge to stormwater drains ultimately discharging to Enoggera / Breakfast Creeks	Field: 20.1 NTU Lab: 16.3 NTU	9 mg/L	96%	8.15

² Refer to the waterways and water quality management plan, a C-EMP sub-plan for details of derivation of the discharge criteria

³ Correlations are typically run on the source water (i.e., basins) not the receiving system where there is a dilution component of potentially diffuse sources of sediments from non-Project related areas. Due to the very limited amount of discharges the RIS Scope of Works has experienced, there is no correlation available. Typically, a minimum of 20 data points is used to determine TSS / in field turbidity correlation for site waters.

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 12 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
Unity Alliance and the Proponent are working in finalising their assessment of the 6 May 2022 event to confirm whether a Non-Compliance of the Imposed Condition exists					

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 13 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, PM ₁₀ , and deposited dust was also undertaken albeit in a reduced manner TSP, PM ₁₀ monitoring was not carried out for reasons detailed in the body of the report.	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	Not triggered	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	One complaint Community and Stakeholder Engagement Team responded, and stakeholder satisfied with outcome. Attended noise monitoring was therefore not carried out.	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 triggered	Compliant	Not Applicable
Vibration	Complaint's response	Moderate to High	Not triggered No complaints	Compliant	Not Applicable

Aspect	Monitoring requirement	Activities risk profile	Monitoring undertaken	Compliance status with C-EMP / Subplan	Effect of the non-compliance
Water Quality	Bi-Annual monitoring	N/A	Wet season monitoring completed in January 2022 Dry Season monitoring completed in June 2022	Compliant	Not Applicable
Water Quality	Post Rainfall	Moderate to High	Not triggered	Compliant	Not Applicable
Water Quality	Dewatering	Moderate to High	Triggered	N/A	Not Applicable

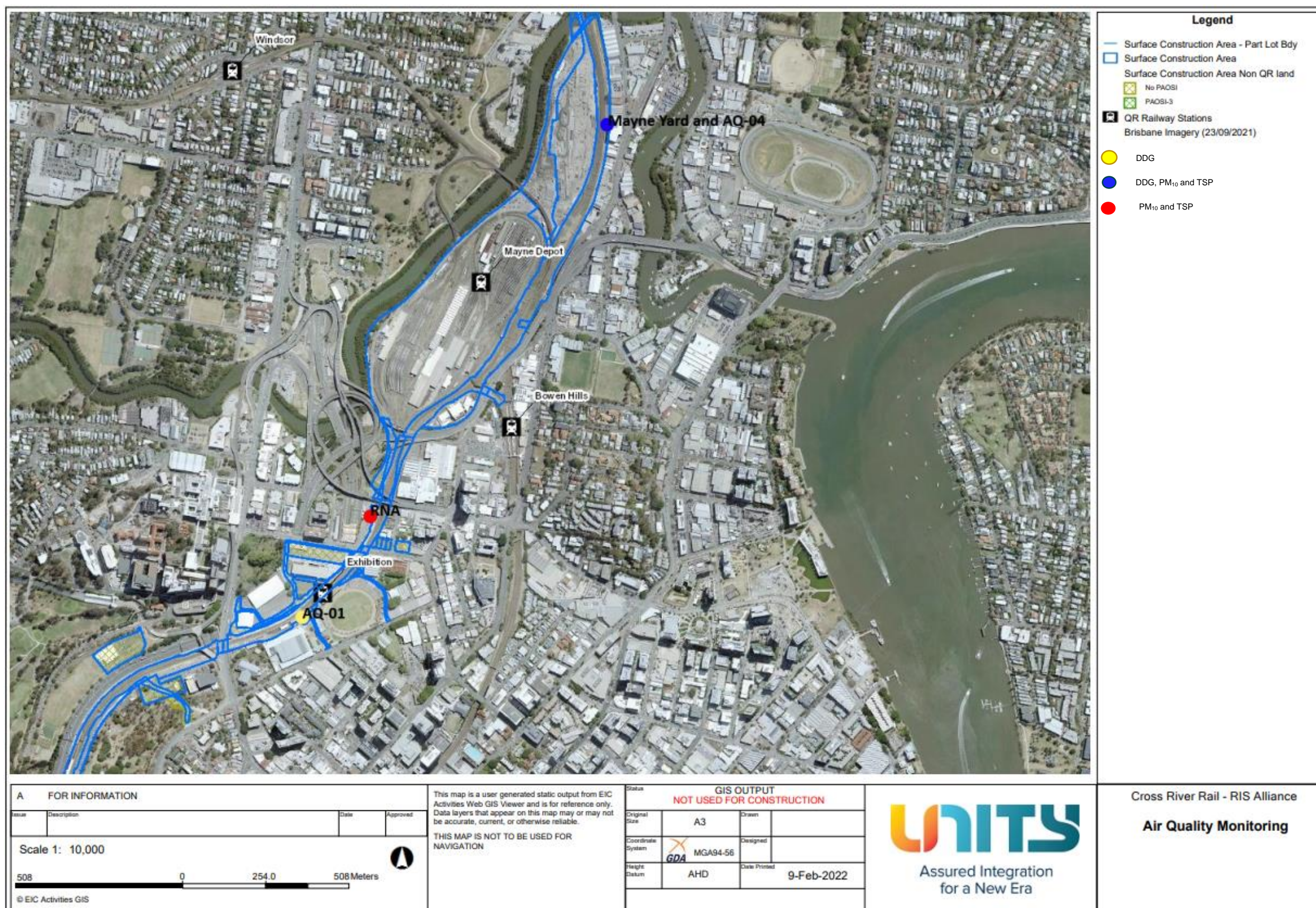
Attachment 1 CGCR Non-Compliance Event Report (if required)

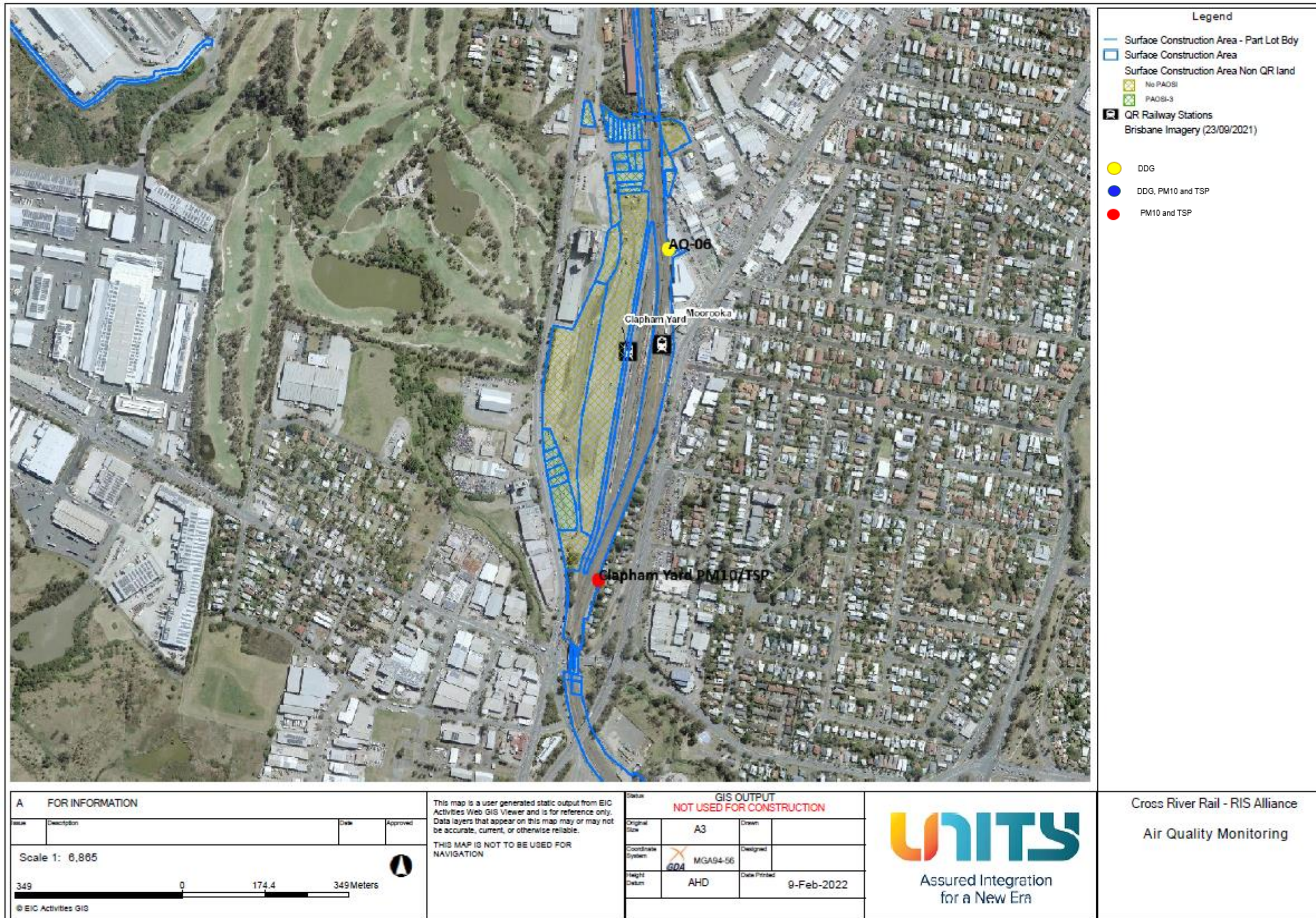
None for this reporting period.

Attachment 2 Monitoring Locations – Noise and Vibration

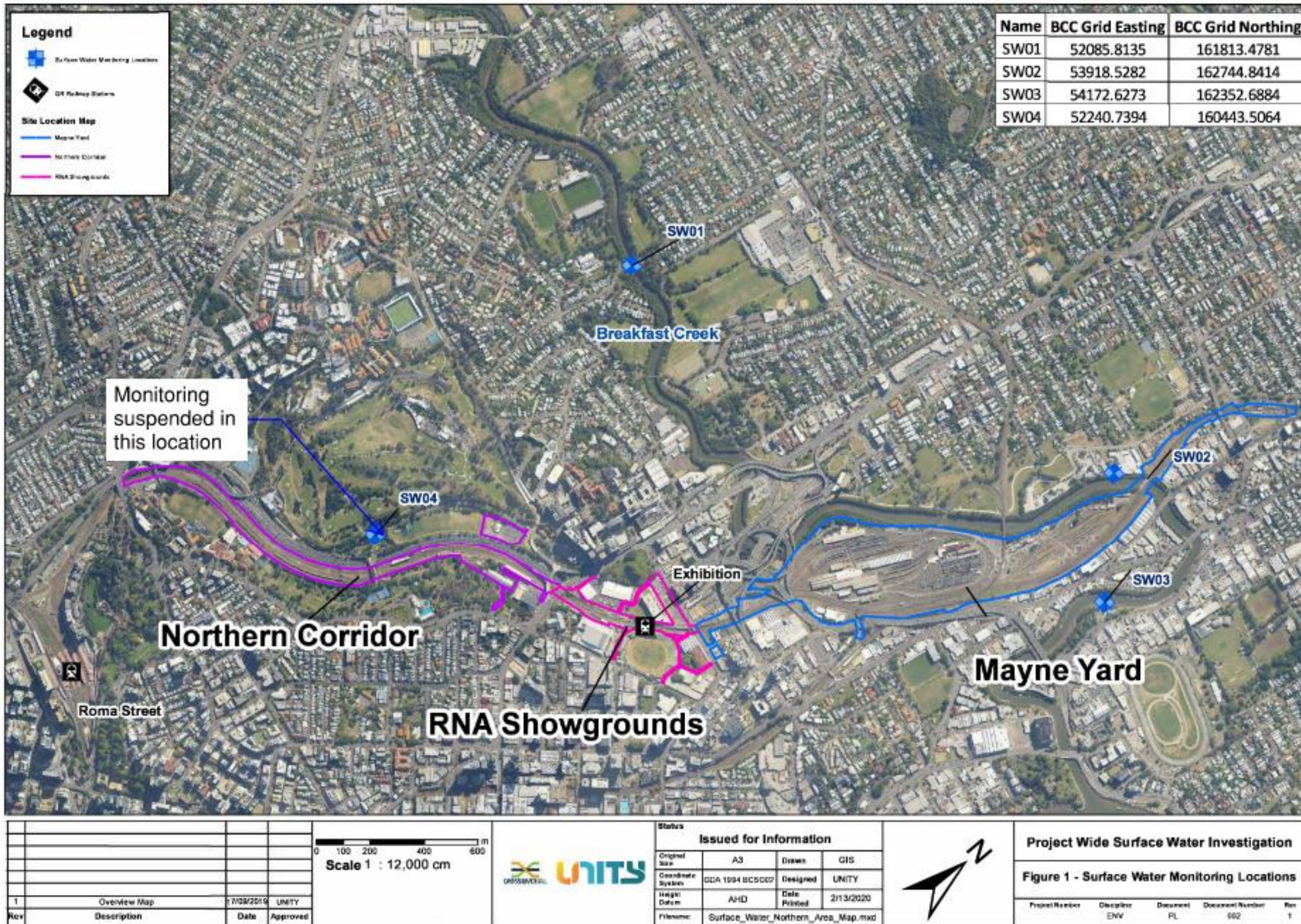
Nil for the reporting period

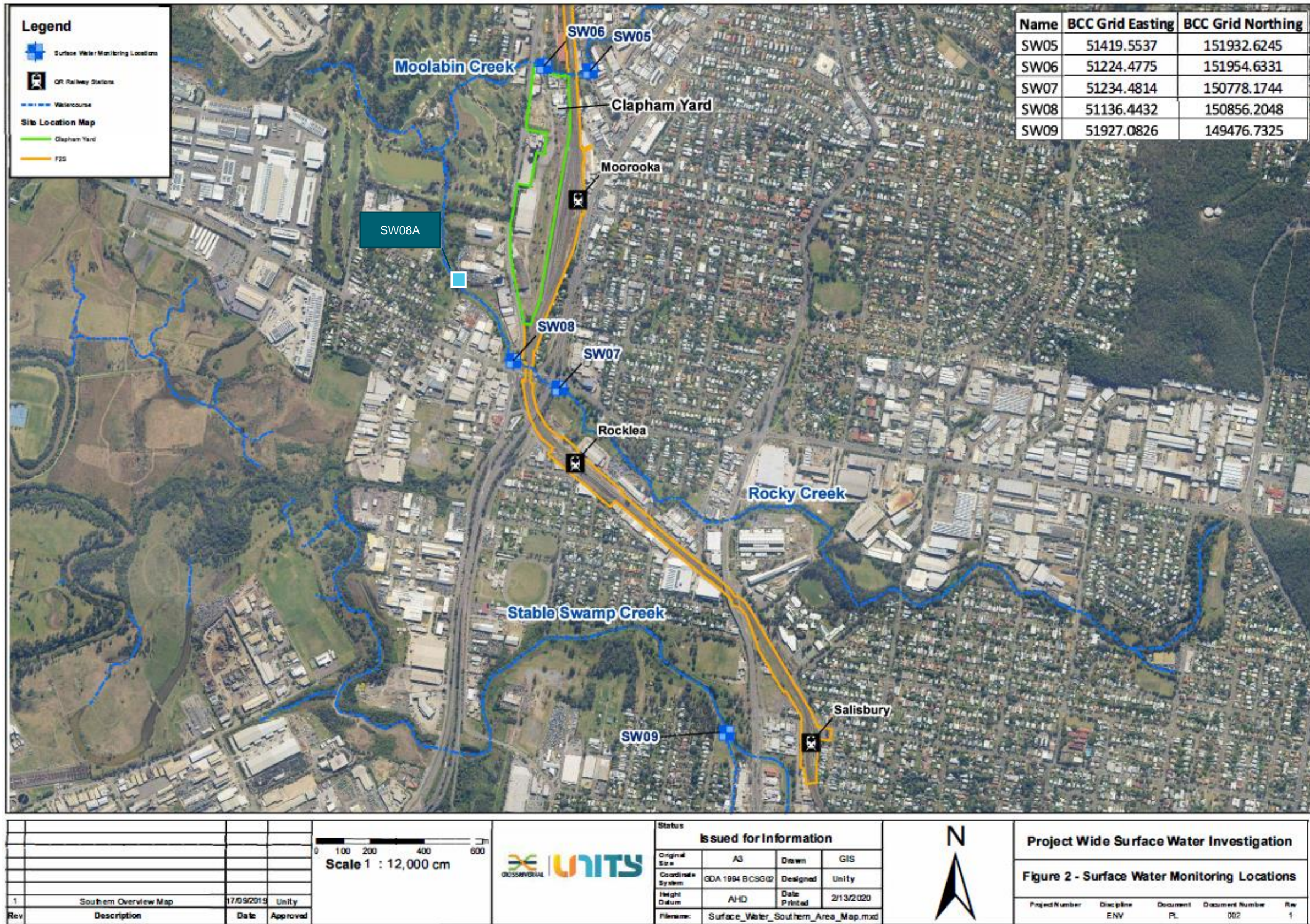
Attachment 3 Monitoring Locations – Air Quality





Attachment 4 Monitoring Locations – Surface Water





Appendix B TSD Monthly Report

COORDINATOR-GENERAL'S MONTHLY REPORT: June 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.

Noise monitoring was conducted on nine (9) occasions during June 2022. No vibration monitoring was required during June 2022. Monitoring that was undertaken 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 June 2022. Air quality monitoring confirmed works adhered to project requirements. One (1) exceedance of PM10 occurred at the Albert St site. The higher than usual level was only marginally over the air quality goal, and attributed to general city conditions and not project-related, as nil works were occurring at the time (Sunday 26 June 2022).

Water quality monitoring was conducted before the release of water from the site on twenty-two (22) occasions. Each monitoring event confirmed project requirements were adhered to. One (1) round of surface water quality monitoring was 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 good-will 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 well-being.	Yes	CBGU project work has aimed to achieve internal noise goals for human health and well-being. 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 & sediment control is managed in accordance with Imposed Condition 18.

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
19.	Acid Sulfate Soils managed as per the <i>Queensland Acid Sulfate Soil Technical Manual</i> .	Yes	CBGU has prepared and manages processes to ensure acid sulphate soils are managed in accordance with Imposed Condition 19.
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.
22.	Flood Water – Temporary emission to allow the release of Flood Waters to high flow receiving waters.	Yes	CBGU project works have been conducted in accordance with the provisions available to manage floodwaters.

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.

During June there were no new construction activities or changes in construction methodologies. As such, no vibration monitoring was performed.

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)
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Nil

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 nine (9) occasions during June 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.	2/06/2022	9:20:00 AM	Gregory Terrace (Northern Portal Precinct)	Construction Monitoring at Sensitive Places	External	Excavation And Spoil Haulage	Road Traffic/ BGGs Tennis Court Works	62	66.4	52	64	Yes
2.	6/06/2022	5:30:00 AM	Albert Street (Albert Street Precinct)	Construction Monitoring at Sensitive Places	Internal	Concrete Works	Construction	42	44.8	35	42.2	Yes
3.	9/06/2022	7:56:00 PM	Pound Street (Southern Portal Precinct)	Construction Monitoring at Sensitive Places	External	Tunnel Ventilation System	Road Traffic	52	55.5	42	56.9	Yes
4.	16/06/2022	3:38:00 PM	Herschel Street (Roma Street Precinct)	Stakeholder Enquiry	Internal	Concrete works and Tunnel Ventilation System	Road Traffic	50	32.6	40	31	Yes
5.	22/06/2022	11:15:00 AM	Roma Street (Roma Street Precinct)	Construction Monitoring at Sensitive Places	External	Concrete Works	Road Traffic	72	74.6	62	72.2	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)
6.	24/06/2022	10:59:00 PM	Albert Street (Albert Street Precinct)	Construction Monitoring at Sensitive Places	Internal	Concrete Works	Construction	50	38	40	36.4	Yes
7.	24/06/2022	11:26:00 PM	Albert Street (Albert Street Precinct)	Construction Monitoring at Sensitive Places	External	Concrete Works	Construction	72	65.7	62	64.3	Yes
8.	24/06/2022	12:04:00 PM	Mary Street (Albert Street Precinct)	Stakeholder Enquiry	Internal	Concrete Works	Construction	50	44.2	40	42	Yes
9.	24/06/2022	12:22:00 PM	Mary Street (Albert Street Precinct)	Stakeholder Enquiry	External	Concrete Works	Construction	72	69.9	62	68.3	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 in June 2022. The dust deposition gauges result for the reporting period are detailed below, and all monitoring data adhered to project requirements.

- Table 4.2: April Air Quality Monitoring – Deposited Dust Data

Location	Project Wide Air Quality Goals ^[1]			Monitoring results (mg/m ² /day)	Comments
	Criterion	Air Quality Indicator	Goal (mg/m ² /day)		
Northern Portal	Nuisance	Deposited dust	120	18.75	Air quality monitoring was performed during the reporting period. All results adhered to project requirements.
Roma Street Precinct				15.63	
Albert Street Precinct (North)				63.33	
Albert Street Precinct (South)				23.33	
Woolloongabba Precinct (North)				41.38	
Woolloongabba Precinct (South)				20.69	
Boggo Road Precinct (North)				67.74	
Boggo Road Precinct (South)				35.48	
Southern Portal (South)				41.94	
Southern Portal (East)				74.19	

3.3.2 Particulates and Ambient Air Quality Results

Total Suspended Particles (TSP) and particulate matter less than 10µm (PM10) monitoring was conducted during June 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 June 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		Northern Portal	
			TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10
			(µg/m3/24 hr)							
01-Jun-22	80	50	2.60	2.57	12.81	12.61	2.67	2.61	3.86	3.62
02-Jun-22	80	50	4.83	4.81	20.77	20.50	7.06	7.04	7.20	7.02
03-Jun-22	80	50	5.65	5.64	16.87	16.61	8.62	8.61	13.14	13.04
04-Jun-22	80	50	2.73	2.72	13.41	13.26	1.56	1.51	3.71	3.66
05-Jun-22	80	50	2.81	2.80	8.92	8.85	4.96	4.94	6.66	6.63
06-Jun-22	80	50	4.26	4.25	24.15	23.90	5.62	5.58	5.56	5.47
07-Jun-22	80	50	2.59	2.58	26.16	25.87	1.87	1.84	2.71	2.62
08-Jun-22	80	50	3.20	3.19	25.90	25.59	1.34	2.59	3.31	3.22
09-Jun-22	80	50	2.13	2.11	29.13	28.75	0.90	0.90	2.88	2.77
10-Jun-22	80	50	2.00	1.97	17.38	17.16	1.06	1.05	2.53	2.42
11-Jun-22	80	50	2.12	2.10	13.15	12.99	1.37	1.37	2.11	2.02
12-Jun-22	80	50	1.83	1.81	16.23	15.98	1.13	1.13	2.52	2.41
13-Jun-22	80	50	5.33	5.32	32.22	31.90	3.71	3.71	9.14	9.03
14-Jun-22	80	50	26.69	26.67	32.02	31.68	6.14	6.14	15.05	14.96
15-Jun-22	80	50	28.19	28.18	.. ^[2]	.. ^[2]	9.41	9.41	19.09	19.03
16-Jun-22	80	50	14.53	14.50	.. ^[2]	.. ^[2]	12.05	12.05	30.87	30.78
17-Jun-22	80	50	9.62	9.59	27.76	27.60	10.53	10.53	14.13	14.01

Date	TSP Project Goal ^[1]	PM10 Project Goal	Woolloongabba		Albert		Boggo Road		Northern Portal	
			TSP	PM 10	TSP	PM 10	TSP	PM 10	TSP	PM 10
			(µg/m ³ /24 hr)							
18-Jun-22	80	50	22.20	22.18	21.68	21.60	14.31	14.31	17.58	17.48
19-Jun-22	80	50	7.35	7.34	12.37	12.33	9.97	9.96	11.83	11.76
20-Jun-22	80	50	5.94	5.93	19.96	19.85	5.26	5.25	8.49	8.39
21-Jun-22	80	50	6.48	6.46	19.60	19.47	7.93	7.93	12.63	12.56
22-Jun-22	80	50	8.82	8.79	22.51	22.35	12.97	12.97	16.42	16.27
23-Jun-22	80	50	16.59	16.57	35.93	35.74	21.84	21.83	29.07	28.94
24-Jun-22	80	50	17.65	17.63	35.60	35.45	23.86	23.86	30.66	30.52
25-Jun-22	80	50	17.57	17.55	46.71	46.59	23.20	23.20	22.16	22.05
26-Jun-22	80	50	26.95	26.94	52.72	52.67 ^[3]	38.12	38.11	49.62	49.53
27-Jun-22	80	50	15.67	15.65	39.01	38.78	22.19	22.17	31.25	31.10
28-Jun-22	80	50	3.99	3.97	14.88	14.75	5.14	5.13	9.02	8.89
29-Jun-22	80	50	5.02	5.01	26.37	26.17	5.88	5.88	11.23	11.16
30-Jun-22	80	50	5.99	5.97	20.78	20.49	6.55	6.55	10.59	10.54

- [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] On 15 & 16 June 2022, the Albert Street air quality unit was relocated and setup in a new monitoring location.
- [3] On 26 June 2022, Albert Street recorded higher than usual PM10 levels. The level was only marginally over the air quality goal, and is attributed to general city conditions and not project-related, as nil works were occurring at the time (Sunday 26 June 2022). Furthermore, TSP & DDG results have continually reported levels below the goals at Albert St (and PM10 remained under the goal throughout the month when construction was occurring).

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: **32.1 µg/m3/24 hr** (<https://apps.des.qld.gov.au/air-quality/chart/?station=cbd¶meter=18&date=1/06/2022&timeframe=month>)
- South Brisbane: PM10 daily Maximum average: **39 µg/m3/24 hr** (<https://apps.des.qld.gov.au/air-quality/chart/?station=sbr¶meter=18&date=1/06/2022&timeframe=month>)
- Woolloongabba: PM10 daily Maximum average: **43.4 µg/m3/24 hr** (<https://apps.des.qld.gov.au/air-quality/chart/?station=woo¶meter=18&date=1/06/2022&timeframe=month>)

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

Particle PM₁₀ at Brisbane CBD, 1–30 June 2022 [about Particle PM₁₀](#)

[Brisbane CBD station overview](#)

The guideline for Particle PM₁₀ is 100µg/m³ (1hr avg) and 50µg/m³ (24hr avg).

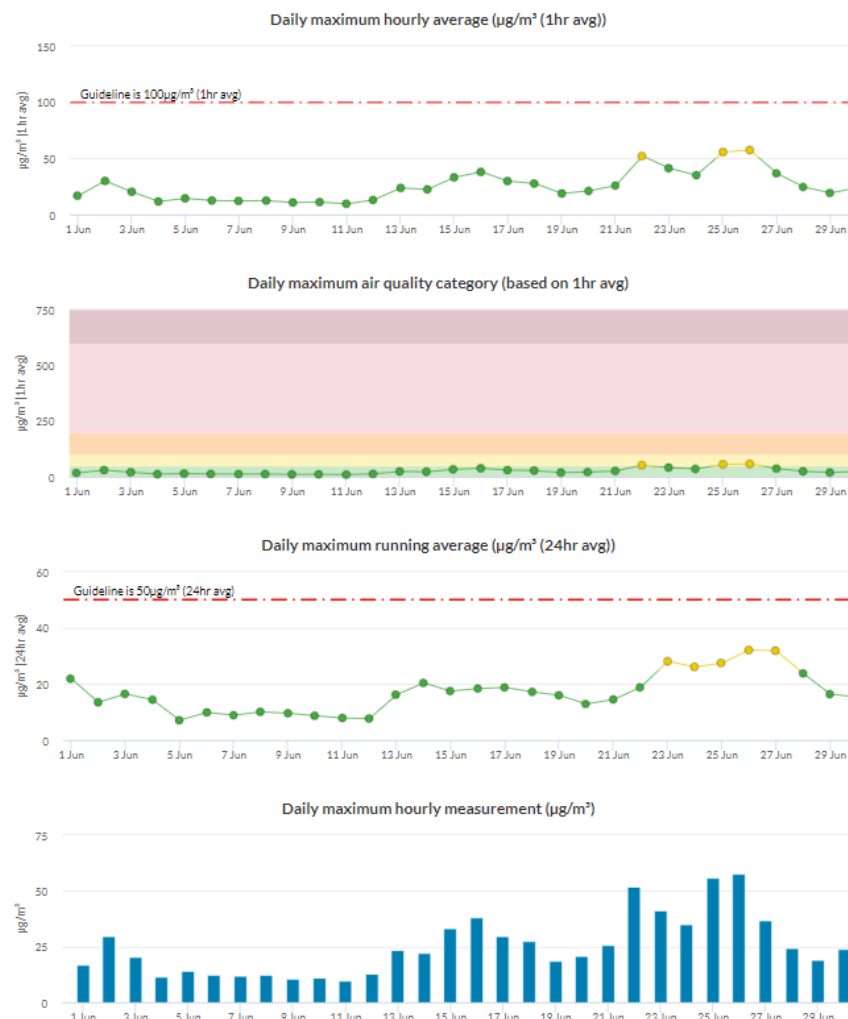


Figure 1: Brisbane CBD – DES Station - PM10 graph for June 2022 (reproduction from the DES website).

Particle PM₁₀ at South Brisbane, 1–30 June 2022 [about Particle PM₁₀](#)

[South Brisbane station overview](#)

The guideline for Particle PM₁₀ is 100µg/m³ (1hr avg) and 50µg/m³ (24hr avg).

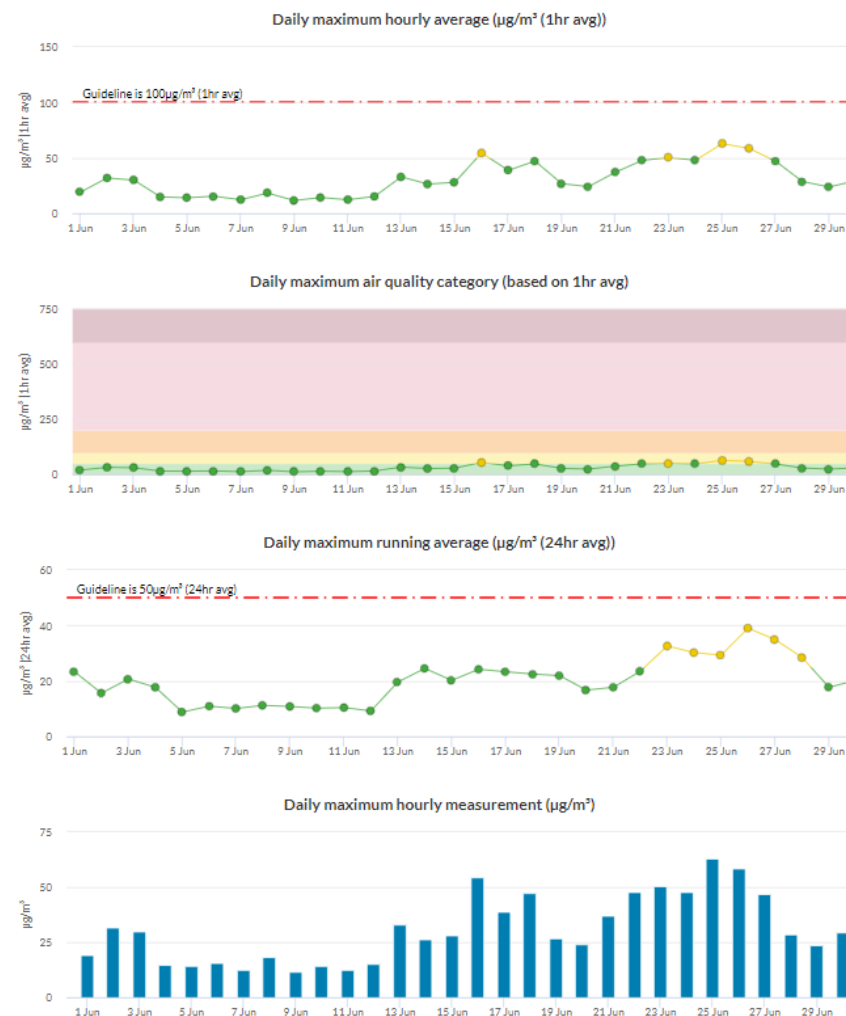


Figure 2: South Brisbane – DES Station - PM10 graph for June 2022 (reproduction from the DES website).

Particle PM₁₀ at Woolloongabba, 1–30 June 2022 [about Particle PM₁₀](#)

[Woolloongabba station overview](#)

The guideline for Particle PM₁₀ is 100µg/m³ (1hr avg) and 50µg/m³ (24hr avg).

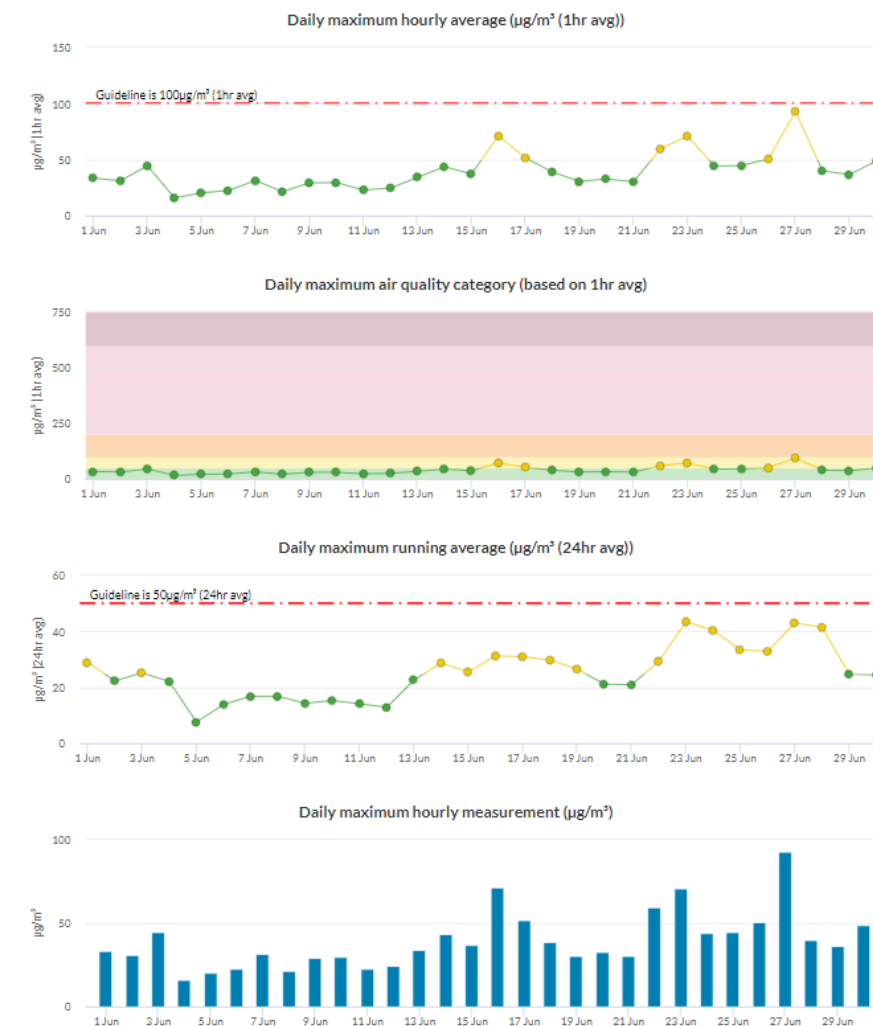


Figure 3: Woolloongabba – DES Station - PM10 graph for June 2022 (reproduction from the DES website).

3.4 Water Quality – Discharge

CBGU undertook four (4) 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) ^[4]	Total phosphorus (µg/L)	Filterable Reactive phosphorus (FRP) (µg/L)	Chlorophyll a (µg/L)	Dissolved oxygen (%) ^[2]	
Woolloongabba	12/06/2022	7.66	<5	3.26	170.00	830.00	400.00	1400.00	10.00	<10	<1	86.08	Yes
Albert Street	16/06/2022	7.67	<5	0.32	870.00	4610.00	600.00	6100.00	<10	<10	<1	95.61	Yes
Roma Street	16/06/2022	7.80	<5	0.20	300.00	580.00	700.00	1600.00	<10	<10	<1	93.19	Yes
Boggo Road	16/06/2022	7.52	<5	2.51	50.00	650.00	300.00	1000.00	10.00	<10	<1	113.77	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] All results adhere to project requirements in that site practices are designed to aim to achieve the water quality objectives. 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] All results adhere to project requirements in that site practices aim to achieve the water quality objectives. These samples identified results generally consistent with pre-construction conditions, and no external influences were introduced by construction activity.
- [4] Total nitrogen levels adhered to project requirements in that site practices are designed to aim to achieve the water quality objectives. 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 systems, fertilising natural areas, etc) rather than related to construction activities.
- 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.

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	1/06/2022	8.39	18.25	Yes
2.	Northern Portal	2/06/2022	8.43	6.26	Yes
3.	Northern Portal	3/06/2022	8.37	6.40	Yes
4.	Northern Portal	4/06/2022	8.37	12.48	Yes
5.	Northern Portal	6/06/2022	8.29	22.10	Yes
6.	Northern Portal	7/06/2022	8.40	12.60	Yes
7.	Northern Portal	8/06/2022	8.21	7.45	Yes
8.	Northern Portal	9/06/2022	8.19	6.79	Yes
9.	Northern Portal	10/06/2022	8.45	10.26	Yes
10.	Northern Portal	11/06/2022	8.32	12.20	Yes
11.	Northern Portal	13/06/2022	8.30	11.79	Yes
12.	Northern Portal	14/06/2022	8.20	12.30	Yes
13.	Northern Portal	15/06/2022	8.28	12.20	Yes
14.	Northern Portal	16/06/2022	8.40	6.68	Yes
15.	Northern Portal	17/06/2022	8.37	10.37	Yes

16.	Northern Portal	18/06/2022	8.31	12.68	Yes
17.	Northern Portal	20/06/2022	8.31	1.68	Yes
18.	Northern Portal	21/06/2022	8.42	2.16	Yes
19.	Northern Portal	22/06/2022	8.39	5.37	Yes
20.	Northern Portal	23/06/2022	8.38	10.28	Yes
21.	Northern Portal	24/06/2022	8.44	1.65	Yes
22.	Northern Portal	25/06/2022	8.37	4.85	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 June 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
Woolloongabba	Upstream	13/06/2022	Monthly	18.17	17600	74.97	7.6
Woolloongabba	Downstream	13/06/2022	Monthly	23.8	17300	79.19	7.66
Boggo Road ^[1]	Downstream	13/06/2022	Monthly	3.93	6420	45.57	7.08
Roma Street	Upstream	14/06/2022	Monthly	58	17600	90.77	7.73

Location	Upstream / Downstream	Date	Purpose of Monitoring	Turbidity (NTU)	EC (µS/cm)	Dissolved oxygen (%)	pH
Roma Street	Downstream	14/06/2022	Monthly	51.5	16700	88.37	7.73
Northern Portal	Downstream	14/06/2022	Monthly	5.8	829	108.93	7.44
Albert Street	Upstream	14/06/2022	Monthly	42	22100	89.56	7.79
Albert Street	Downstream	14/06/2022	Monthly	58	21500	89.56	7.83

- [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
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Nil

5 Complaints

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

During June 2022, four (4) 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.	2 Jun 22	Peter Doherty (Boggo Road Precinct and Southern Area Works)	Noise	A stakeholder contacted the Project regarding noise generated from the Boggo Road and the Southern Area Worksite. CBGU provided the stakeholder with an overview of the works occurring and their duration. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU reviewed the circumstances and monitoring confirmed works adhered to the Project's noise requirements, and the works undertaken were consistent with the community notification.	Closed
2.	20 Jun 22	Mary Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise generated from the Albert Street Precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU reviewed the circumstances and monitoring confirmed works adhered to the Project's noise requirements, and the works undertaken were consistent with the community notification.	Closed
3.	20 Jun 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise generated from the Albert Street Precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU reviewed the circumstances and monitoring confirmed works adhered to the Project's noise requirements, and the works undertaken were consistent with the community notification.	Closed
4.	20 Jun 22	Albert Street (Albert Street Precinct)	Noise	A stakeholder contacted the Project regarding noise generated from the Albert Street Precinct. CBGU provided the stakeholder with an overview of the works occurring and their duration. CBGU also outlined the mitigation measures used to alleviate potential impacts and ensure compliance. CBGU reviewed the circumstances and monitoring confirmed works adhered to the Project's noise requirements, and the works undertaken were consistent with the community notification.	Closed