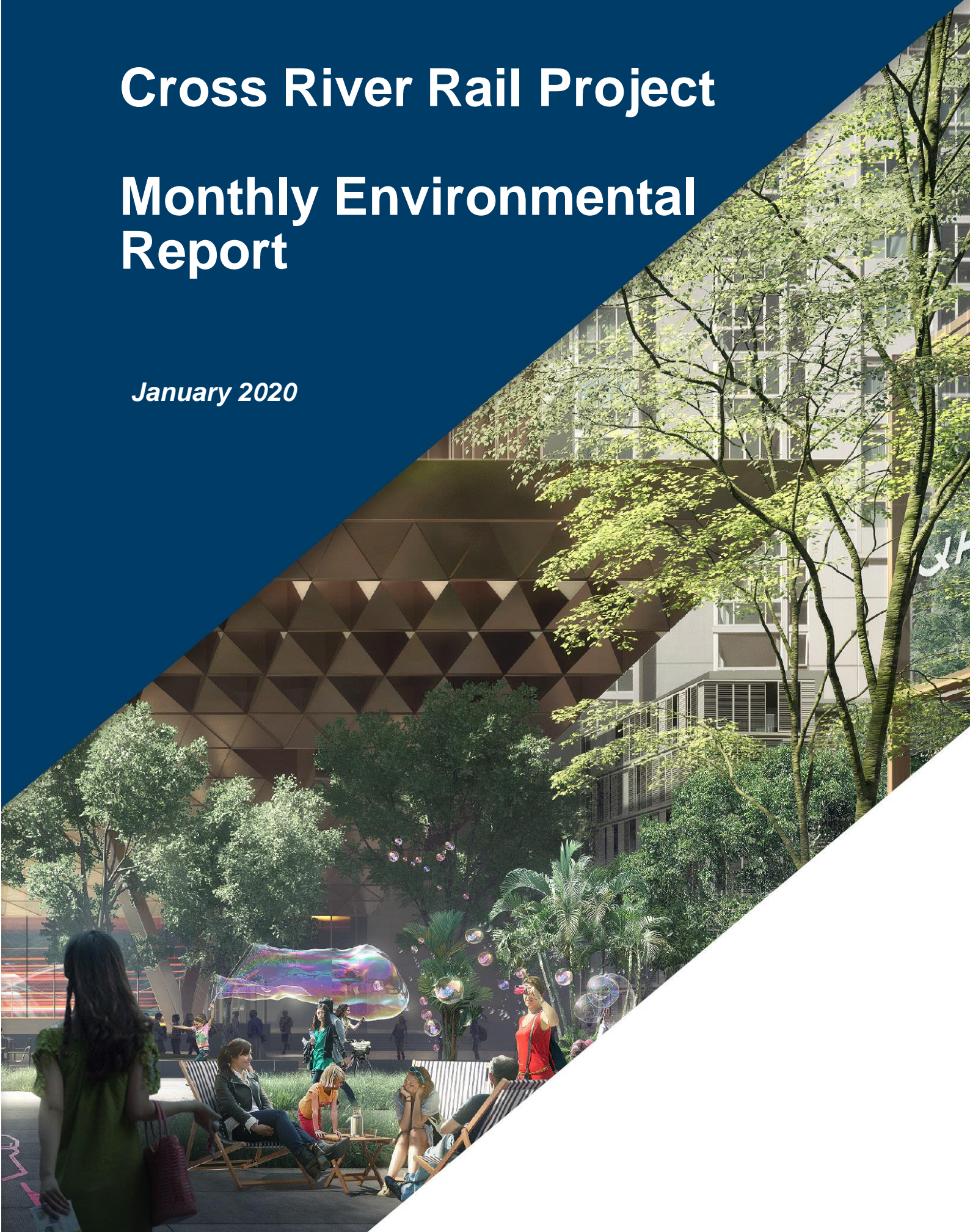


Cross River Rail Project

Monthly Environmental Report

January 2020



Executive Summary

This monthly report has been produced for Project Works undertaken on site for January 2020 for the Rail, Integration and Systems (RIS), and Tunnel, Stations and Development (TSD) packages. This monthly report addresses the obligations outlined in the Coordinator-General's change report – condition change (hours of works) 2019 (CGCR, October 2019) and the Project's Outline Environmental Management Plan.

The Construction Environmental Management Plans (CEMPs) prepared for the Relevant Project Works being delivered by both Unity Alliance (RIS Contractor) and CBGU JV (TSD Contractor) were endorsed by the Environmental Monitor and submitted to the Coordinator General in accordance with Condition 4 (a) and 4 (b) respectively.

The following Project Works were completed in January 2020 –

Mayne Area -

- Continued Geotechnical, Contaminated land and Acid Sulfate Soils (ASS) investigations; and
- Continued utilities or underground services identification.

Northern Area -

- Continued Geotechnical, Contaminated land and ASS investigations;
- Continued utilities or underground services identification;
- Site establishment of the Main Site Office at Herston; and
- Widening of the existing access road in Victoria Park for main access into the Northern Corridor.

Central Area -

- Site establishment and clearance, including vegetation removal, fencing and utility works;
- Continued geotechnical works and soil and contaminated land investigations;
- Internal soft strip and demolition of buildings (Albert Street and Roma Street);
- Piling preparation and piling across the sites; and
- Excavation in and around the tunnel shaft (Roma Street, Woolloongabba and Albert Street).

Southern Area -

- Geotechnical, Contaminated land and ASS investigations; and
- Continued utilities or underground services identification.

Key applicable environmental elements

Noise – Attended noise monitoring was undertaken during demolition of the QR Shed and Cattle Overpass within the Rail Corridor, and the Biomedical Technology Services (BTS) building located adjacent to Victoria Park, Gregory Terrace, Spring Hills. All results were within the Coordinator-General's nominated performance goals. Noise monitoring was also undertaken across the central area at all station precinct sites within the reporting period.

Vibration - Unattended vibration monitoring was undertaken at the Energex substation for the demolition works in the northern corridor. All results were within the Coordinator-General's nominated performance goals. Vibration monitoring was also undertaken at Boggo Road and Roma Street, the results were compliant and / or modelling verified.

Air Quality – Two dust deposition monitoring gauges were established in December 2019 for the RIS scope of works. One monitoring location was established in Victoria Park and the second in the RNA showgrounds. The air quality results for the reporting period complied with the Coordinator-General's nominated performance goals. Air quality observations continued at the two existing Transurban Air Quality Monitoring Stations (external to the Project) near the northern corridor at East Victoria Park and

Eastern Centenary Pool. No exceedances of the relevant air quality performance goals were recorded during the reporting period. Dust deposition monitoring equipment has been set up at Woolloongabba and Albert Street sites by the TSD Contractor in January. This returned levels within the performance goals.

Erosion and Sediment Control – an overarching Erosion and Sediment Control Plan (ESCP) is being prepared for the RIS work package. Site specific ESCPs have also been developed for each current work site and endorsed by the Environmental Monitor prior to the commencement of works. Additional site specific ESCPs have also been prepared and updated for the permanent sites (Boggo Road, Woolloongabba Station, Albert Street and Roma Street).

Compliance

There were none (0) Non-Compliance Events (NCE) reported during the month.

A compliance table against each condition is presented in **Section 3** of the report.

Complaints:

Only one (1) complaint related to the truck driver behaviour was received in the month of January. This did not result in a non-compliance event and toolbox talks were undertaken.

The key planned Project Works for the coming months include:

Mayne Area -

- Soil stripping and preloading.

Northern Area -

- Continued site establishment at Herston Avenue and RNA Showgrounds;
- Continued access road works at Victoria Park;
- Earthworks for winning preload material; and
- Intersection and signalling works at Gregory Terrace.

Central Area -

- Roma Street - continued site establishment, site preparation and demolition work on going including shaft area preparation for commencement of shaft excavation in early 2020 and the acoustic shed;
- Albert Street – continued site preparation, geotechnical work, building demolition and removal as well as piling preparation. Demolition of Lot 2 completed, and site preparation for piling pad and acoustic shed;
- Woolloongabba – site establishment and piling pad preparation with continued piling and shaft decline excavation from March onwards. Blasting activities are also expected to commence in late March / April;
- Boggo Road - site clearance activities, site office set up, piling preparations and works on the freight flyover.

Southern Area -

- Overhead Line Equipment (OHLE) works at Yeronga and Fairfield.

Monthly Reporting

It is noted that the monthly report for the TSD contract still has deficiencies in detail and this is acknowledged in the Environment Monitors endorsement letter.

The Environment Monitor endorsement letter is provided in **Appendix A**.

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Appendix A – Environmental Monitor Endorsement Letter

Appendix B – RIS Monthly Report

Appendix C – TSD Monthly Report (Extracts from Progress Report)

Appendix D - Non-Compliance Event Reports

1. Definitions

Table 1: 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(s)	The Project's Construction Environmental Management Plan
CG	Coordinator-General
CGCR	Coordinator-General's Change Report
CGER	Coordinator-General's Evaluation Report
Community Relations Monitor	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
EIS	Environmental Impact Statement
EMP	Environmental Management Plan (refers to the OEMP, CEMP, COEMP including any Project sub-plans)
Environmental Monitor	The Environmental Monitor engaged in accordance with Imposed Condition 7
ETCS	European Train Control Systems
Imposed condition/s	A condition/s imposed by the Coordinator-General under section 54B of the SDPWO Act for the Project
MRTS52	Transport and Main Roads Specifications MRTS52 Erosion and Sediment Control
NCE	Non-Compliance Event
OEMP	The Project's 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
QR	Queensland Rail
RfPC	Requests 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 to an EMP
The Authority	The Cross River Rail Delivery Authority
TSD	Tunnel, Stations and Development

2. Introduction

2.1 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 EIS was evaluated by the Coordinator-General who recommended the Project proceed, subject to Imposed Conditions and recommendations. Since the evaluation of the EIS, five Requests for Project Change (RfPCs) have been evaluated by the Coordinator-General. The CRR Project, as currently evaluated by the Coordinator-General, including the RfPCs, is referred to as the Evaluated Project.

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 Outline Environmental Management Plan (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.

2.2 Project Delivery

The Delivery Authority is responsible for planning and delivering the Project.

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 Delivery Authority has appointed separate Contractors to deliver TSD and RIS packages. CBGU JV is delivering TSD package while RIS package is being delivered by the Unity Alliance.

The Project is geographically divided into four areas as identified in **Figures 1 and 2** –

- Mayne Area
- Northern Area
- Central Area
- Southern Area

During initial Project Delivery phase, the Project has established environmental management plans and secured some of the secondary environmental approvals in addition to enabling works.

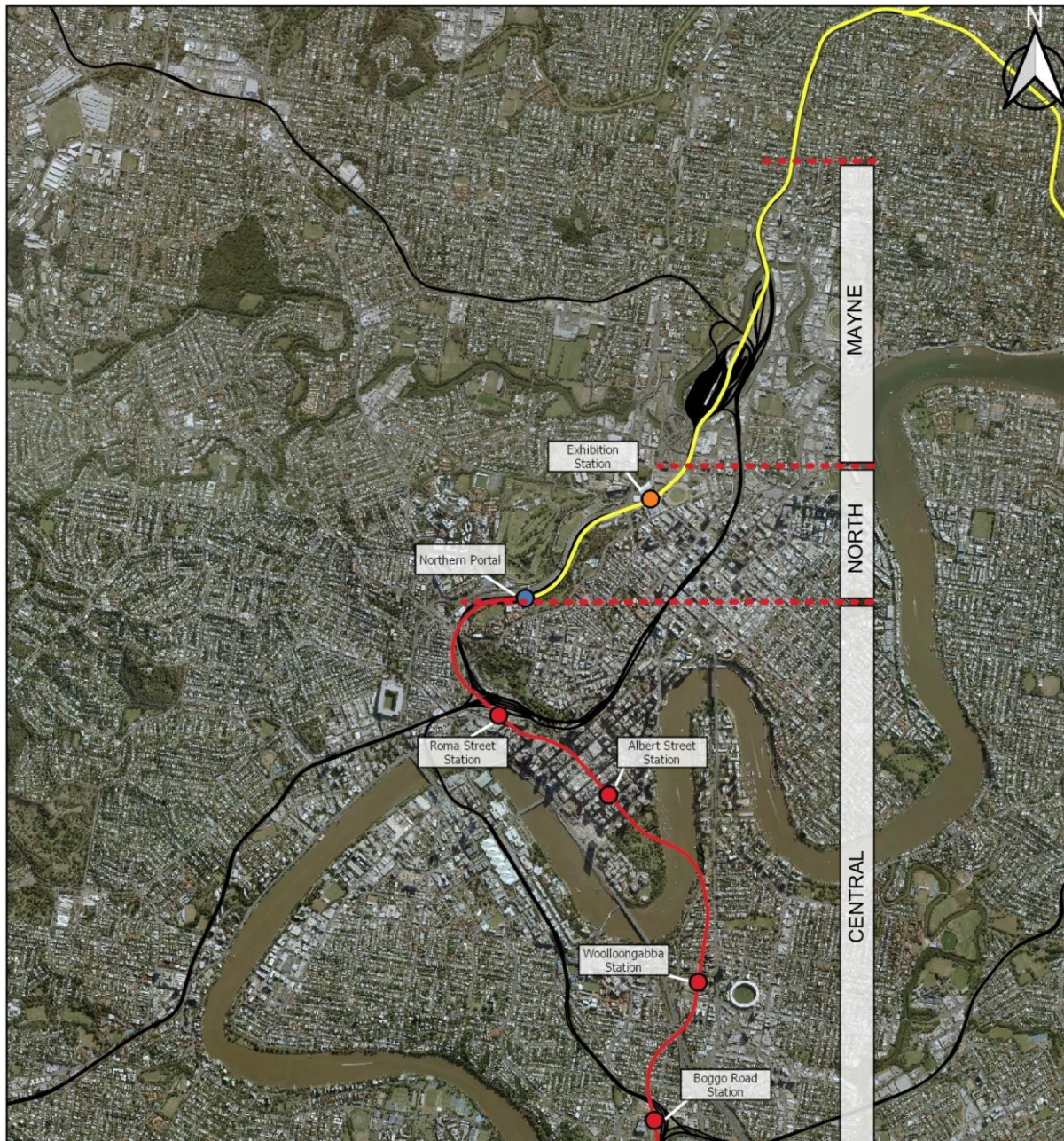








Figure 1 : Project Geographical Areas - North

Legend

- | | | |
|--|--|--|
|  Above Ground Alignment |  Above Ground Station |  Tunnel Portal |
|  Tunnel Alignment |  Underground Station |  Existing Railway Network |

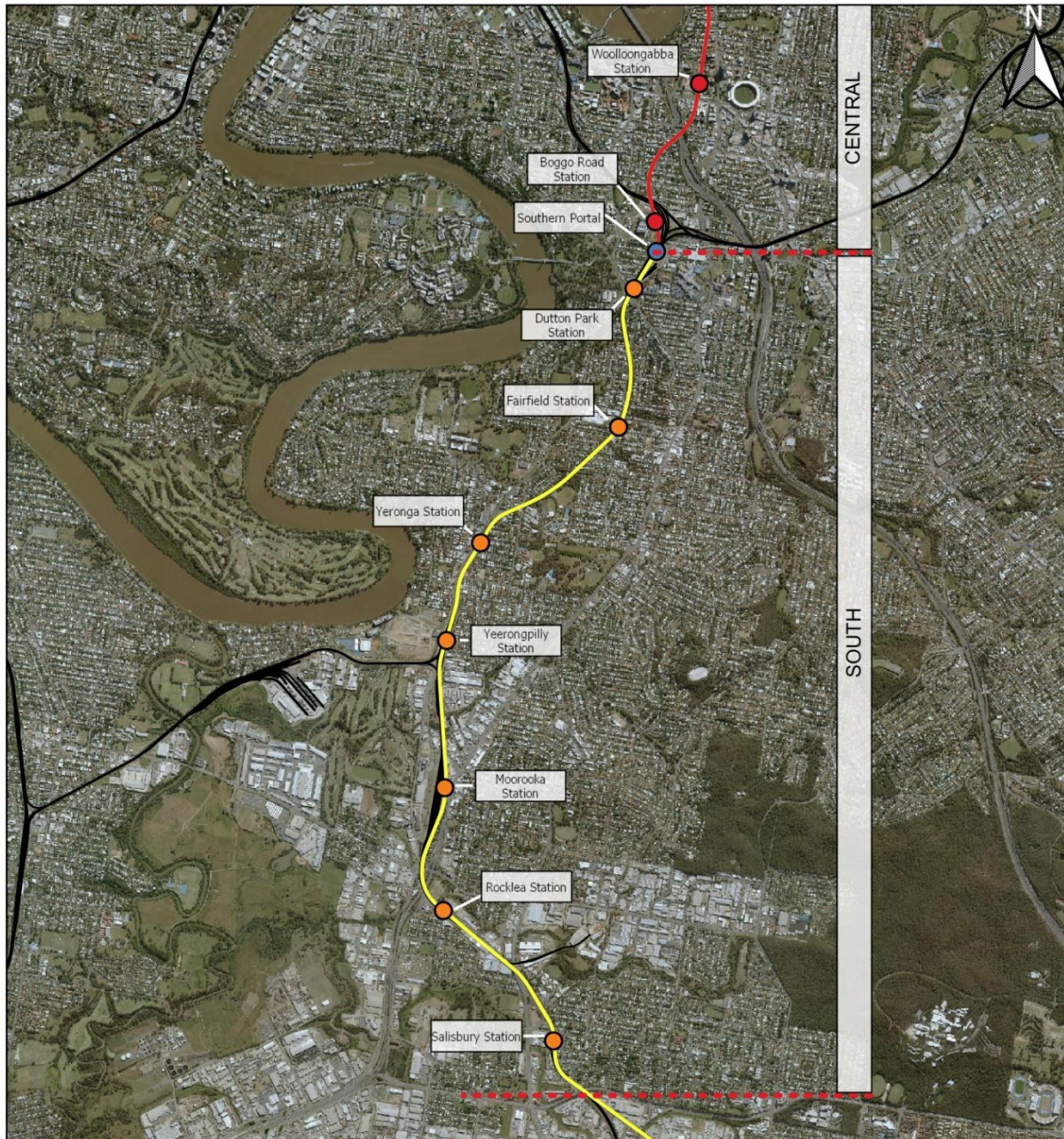








Figure 2: Project Geographical Areas - South

Legend

- | | | |
|--|--|--|
|  Above Ground Alignment |  Above Ground Station |  Tunnel Portal |
|  Tunnel Alignment |  Underground Station |  Existing Railway Network |

2.3 Reporting Framework

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

- Monitoring data and associated interpretation of the results required by the imposed conditions or Construction Environmental Management Plan (CEMP);
- Details of any Non-Compliance Event (NCE), including incidents, corrective actions and preventative actions; and
- Details of any complaints, including description, responses and corrective actions.

Reporting on environmental elements will be captured in these monthly environmental reports and the annual environmental reports, which will be endorsed by the Environmental Monitor.

3. Compliance with Imposed Conditions

This Monthly Report has been reviewed and endorsed by Environmental Monitor as per Condition 7 of the Coordinator-General Change Report (CGCR) (**Appendix A**).

Compliance against Imposed Conditions are provided in **Table 2** below and detail is provided in **Appendices B and C**.

Table 2: 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	Ongoing
2.	Outline Environmental Management Plan – timely submittal to the Coordinator General including required sub plans	Yes	No further amendments to the OEMP proposed
3.	Design - achievement of the Environmental Design Requirements	NA	
4.	Construction Environmental Management Plan – all relating to Relevant Project Works	Yes	RIS – CEMP endorsed for Enabling and Advanced Works on 23 August 2019 TSD – CEMP Rev 0 was in place for January. CEMP Rev 3 endorsed (conditionally) for Site Establishment, Demolition, Investigation Works and Piling. Revision 3 was submitted to the CG on 14 Jan 2020 and came into effect from 11 February 2020.
5.	Compliance and Incident management - Non-compliance events, notifications and reporting	NA	
6.	Reporting – Monthly and Annual reporting	Yes	Reporting falls short of requirements for the TSD contractor. The DA Currently working with the EM and Contractor to address this issue.
7.	Environmental Monitor - engaged and functions resumed	Yes	Ongoing
8.	Community Relations Monitor - 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 – works undertaken during approved hours	Yes	All works were undertaken during approved 'Hours of work'
11.	Noise – Work must aim to achieve internal noise goals for human health and well-being	Yes	Refer to Appendices B and C .
	Vibration - Works must aim to achieve vibration goals for cosmetic damage, human comfort and sensitive building contents.	Yes	Refer to Appendices B and C .
12.	Property damage relating to ground movement	Yes	RIS - No specific management plan required due to low risk construction works TSD – need to prepare this for upcoming blasting and excavation works, some surveys completed in February.

CG Condition	Requirement Summary	Compliance Met (Yes/No/NA)	Comment
13.	Air quality - Works must aim to achieve air quality goals for human health and nuisance.	No	Only dust deposition monitoring was undertaken at TSD and RIS sites (Appendix B). However, Total Suspended Particulates (TSP) and Particulate matters (PM ₁₀) were not monitored. The DA Currently working with the EM and Contractor to address this issue.
14.	Traffic and transport - Works must minimise adverse impacts on road safety and traffic flow.	Yes	TSD - Traffic Management Plan covered in the CEMP
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	Four discharge events took place in January (one at Boggo Road and three at Woolloongabba).
16.	Water resources – evaluate potential impact, plan works, implement controls and monitor inflow of groundwater associated with drawdown	Yes	Ongoing
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 storm water flows, outside of worksites.	NA	
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	TSD - Erosion and Sedimentation Control Plan and individual site plans have been prepared and under review. RIS – Overarching ESCP is being prepared, followed by site specific ESCP for each work sites. All Erosion and Sediment Control Plans will be submitted to Environmental Monitor for endorsement.
19.	Acid sulfate soils managed as per the <i>Queensland Acid Sulfate Soil Technical Manual</i> .	Yes	TSD - CEMP covers Acid Sulfate Soils Management Plan RIS – Not applicable for Relevant Project Works
20.	Landscape and open space – general requirement to minimise impacts on landscapes and open space values and specific requirements around Victoria park	Yes	RIS – Site Environmental Plan prepared and implemented for Victoria Park Access Road works.
21.	Worksite rehabilitation – worksites rehabilitated as soon as practicable upon completion of works or commissioning, and in consultation with Brisbane City Council.	NA	

Total Non-Compliance Events Reports:

The total number of Non-Compliance Events reported which affected imposed conditions in January was zero (0).

Appendix A – Environmental Monitor Endorsement Letter

Appendix B – RIS Monthly Report

Monthly CGCR Report – January 2020

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

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1 Progress Summary

1.1 Summary of Works

The following *Project Works* continued in January 2020

- Enabling works within the Northern Corridor (College Road to Bowen Bridge Road)
- Geotechnical, Contaminated land and Acid Sulphate Soils along the corridor length with a focus on Fairfield to Salisbury
- Utilities / Underground services identification along the corridor and within the project footprint.
- Site establishment of the Main Site Office at Herston

The following *Project Works* started in January 2020

- Widening of the existing Access Road in Victoria Park which will become the main paved access into the Northern Corridor for the Pulse and Unity Consortia.

1.2 Progress Photos



Plate 1: Widening of the Victoria Park Access Road, off Gregory terrace, Spring Hill



Plate 2: View of Mayne Yard North Facing South, Albion

2 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 is defined as Project Works that do not comply with the Imposed Conditions.

2.1 Non- Compliance Events Summary

Table 1: Summary of Non-Compliance Events

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

3 Complaints

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

Table 2: Summary of Complaints

Date	Location	Issue	CGCR Non-Compliance	Status
None for this reporting period				

4 Environmental Monitoring Results

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

4.1 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 occurs.

4.1.1 Noise Monitoring

The predictive noise modelling for the Victoria Park Access Road works did not trigger the need to undertake noise monitoring.

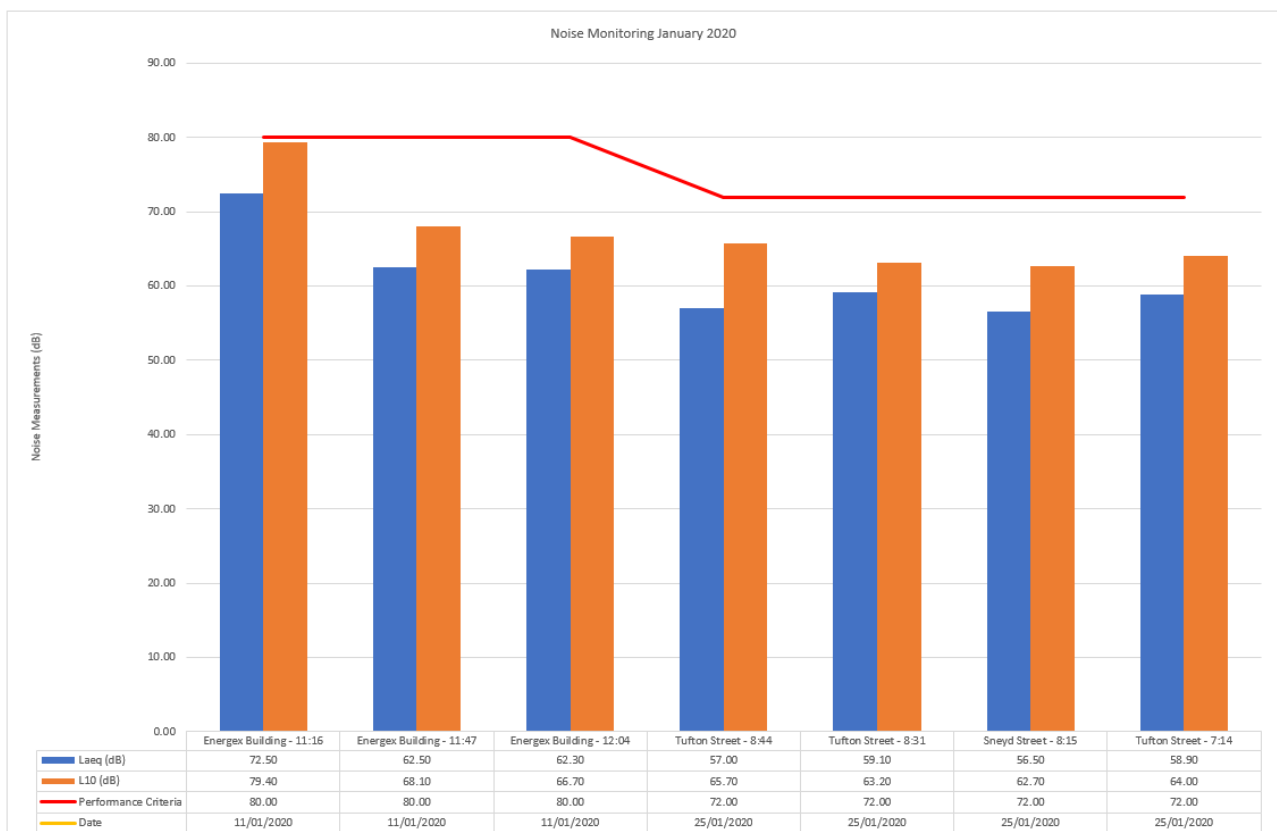
Unity however undertook attended sensitive receivers noise monitoring for activities associated with the demolition of buildings and structures on State Owned Land (not classified as *Relevant Project Works* for the purpose of the CGCR).

These activities included:

- The demolition of the QR Shed within the Rail Corridor and the BTS building near the Energex Office (relevant receiver) and,
- The Concrete sawing associated with the demolition of the Cattle Overpass in the Rail Corridor at the Brisbane Exhibition Grounds (RNA). Monitoring was undertaken along Tufton Street high-rise residential development (relevant receiver).

Noise monitoring because of complaints was not triggered. No noise complaints occurred during the works.

4.1.2 Noise monitoring Results



4.1.3 Vibration Monitoring

The predictive vibration modelling for the Victoria Park Access Road works did not trigger the need to undertake vibration monitoring.

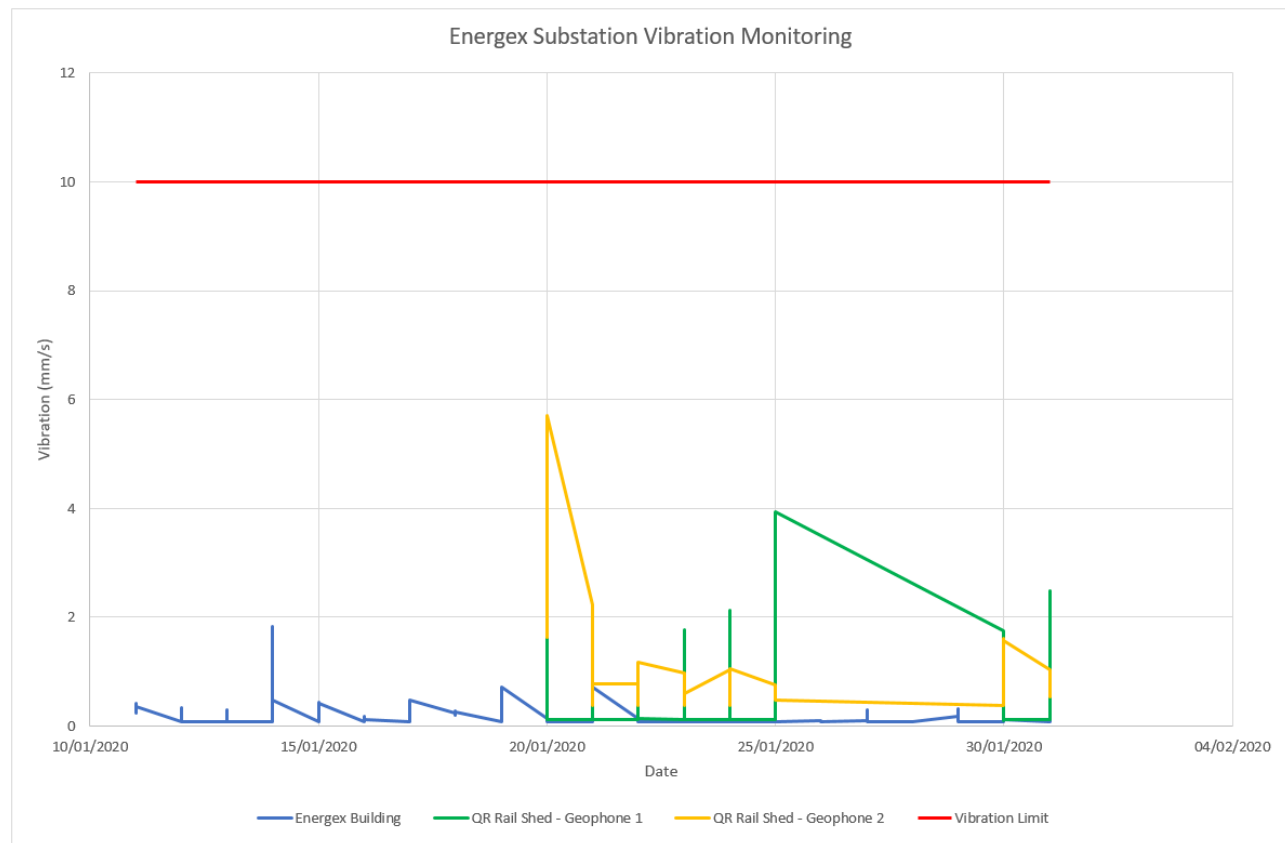
Unity however undertook unattended vibration monitoring at the Energex substation associated with the demolition of buildings and structures on State Owned Land (not classified as *Relevant Project Works* for the purpose of the CGCR).

Indeed, during project consultation it was identified that Energex's substation contained sensitive equipment. The demolition of the QR Shed within the Rail Corridor and the BTS building both near the Energex Substation required for the concrete base slabs to be removed. The removal required the use of a hydraulic hammer which was the main source of vibration that could have affected the substation.

Energex confirmed with the project team the substation could sustain vibrations up to 10mm/s before actions would require to be taken.

Vibration monitoring because of complaints was not triggered. No complaints triggered the need to undertake vibration monitoring.

4.1.4 Vibration Monitoring Results



4.1.5 Interpretation

All monitoring results demonstrated the activities undertaken did not adversely affect sensitive receivers. This is further supported by the fact that no nuisance complaints were received during the month of January 2020.

4.2 Air Quality

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 Construction Environmental Management Plan occurs.

Visual Monitoring was undertaken during routine environmental inspections. A total of ten (10) inspections were undertaken. No issues were identified that required corrective actions to be raised.

4.2.1 Dust results

Unity Alliance established one (1) passive dust deposition gauge in Victoria Park near Brisbane Girls Grammar School (BGGS) and one (1) passive dust deposition gauge in the RNA showgrounds in mid-December 2019, despite the ongoing predicted low impact nature of the Relevant Project Works.

Since passive dust deposition gauges are analysed on a monthly basis, results span from 13 December 2019 to 13 January 2020. The Project did not have active works between 21 December 2019 and 05 January 2020 due to the Christmas Holidays Shutdown.

Prior to the Shutdown, all active sites were inspected to confirm they had been stabilised to prevent wind and rain erosion.

The dust deposition gauges result for the reporting period are detailed below and complied with Condition 13(b) of the CGCR.

Table 3: DDG results 13 December 2019 – 13 January 2020

CGCR Criterion (mg/m ² /day)	AQ-01 Results - RNA Showgrounds (mg/m ² /day)	AQ-02 Results - BGGS (mg/m ² /day)
120	38.7	41.9

4.2.2 Interpretation

Standard dust mitigation measures (water cart during active works and ESC measures during shutdown) were effective at managing dust.

4.2.3 Particulates results

Unity Alliance has not yet established particulates monitoring stations due to the predicted low impact nature of the Relevant Project Works.

Transurban Queensland operates the Legacy Way tunnel in accordance with conditions established by the Queensland Co-ordinator General.

Transurban has engaged third parties to establish External Ambient Air Quality Monitoring Stations along their footprint. Two of the monitoring stations are located near the Northern Corridor Area, within 1km from where the works occurred.

They are

- East Victoria Park (E1) which is located approximately 300m due north from the northern corridor, and
- Eastern Centenary Pool (E2) which is located approximately 150m due east from the northern corridor.

External Ambient Air Quality data is collected for Carbon monoxide (CO), Nitrogen dioxide (NO₂), Particulate matter less than 10 µm (PM₁₀), and Particulate matter less than 2.5 µm (PM_{2.5}).

PM₁₀ is one of the indicators for which the Coordinator General has imposed a goal of 50 µg/m³ (over an averaging period of 24 hours) the project must aim to achieve under Condition 13(a) of the CGCR.

The same goal has been imposed on the Cross-River Rail Project.

At the time this report is being written, validated air quality data for the month of January for the Legacy Way tunnel is not available.

Unity reviewed the online daily PM₁₀ plotted data from the Legacy Way website for the month of January 2020 (<https://brisbanenetwork.linkt.com.au/sustainability/legacy-way-air-quality-information/?type=external&date=2020-01-31#graphs>).

There were no exceedances of the PM₁₀ daily criterion recorded at the Victoria Park Legacy Way Air Quality Station.

4.2.4 Interpretation

The Project activities did not result in exceedances of the relevant air quality performance criteria during the reporting period.

4.3 Water Quality – Surface Water

Condition 15(a) requires that discharges of surface water and groundwater from Project Works 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.

Water Quality monitoring to demonstrate compliance with Condition 15(a) was not triggered. There were no surface water discharges either active (e.g. dewatering through pumping, sediment basin release) or visibly passive (through temporary or permanent stormwater drainage) from site.

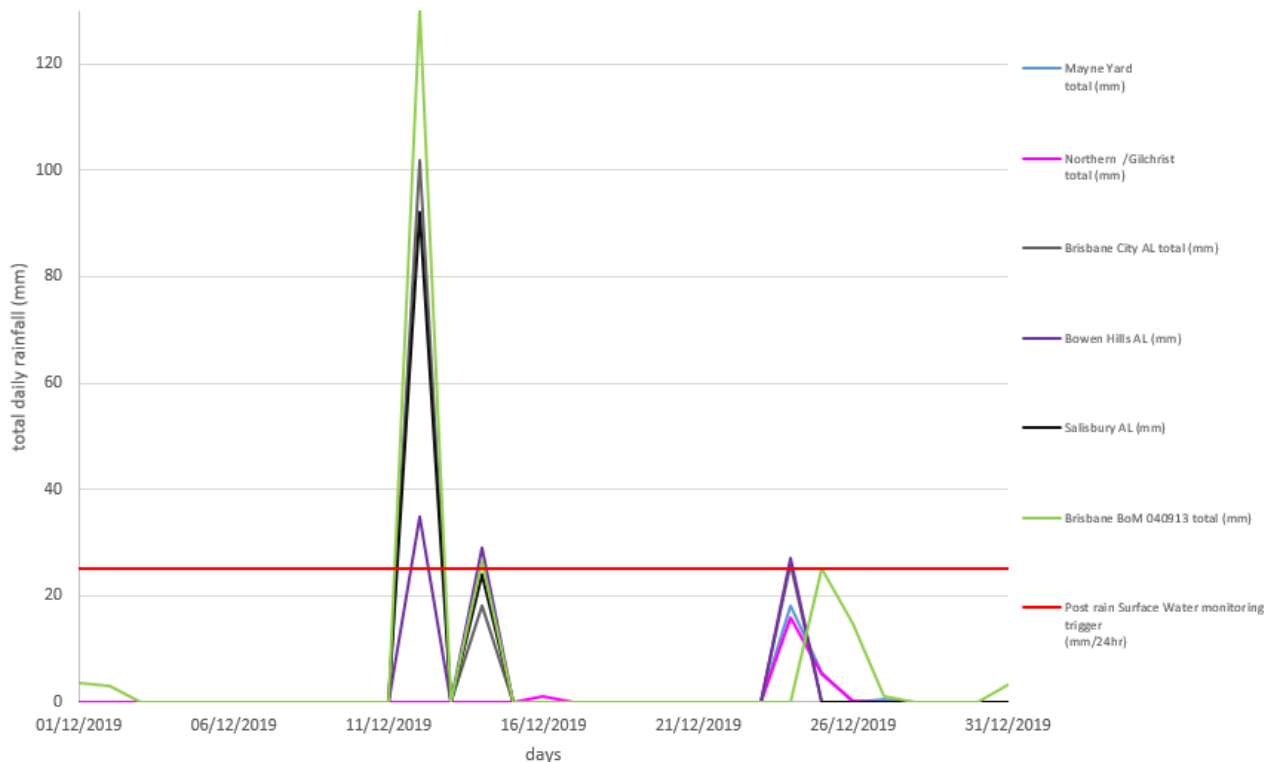
There were no groundwater discharges.

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 Construction Environmental Management Plan occurs.

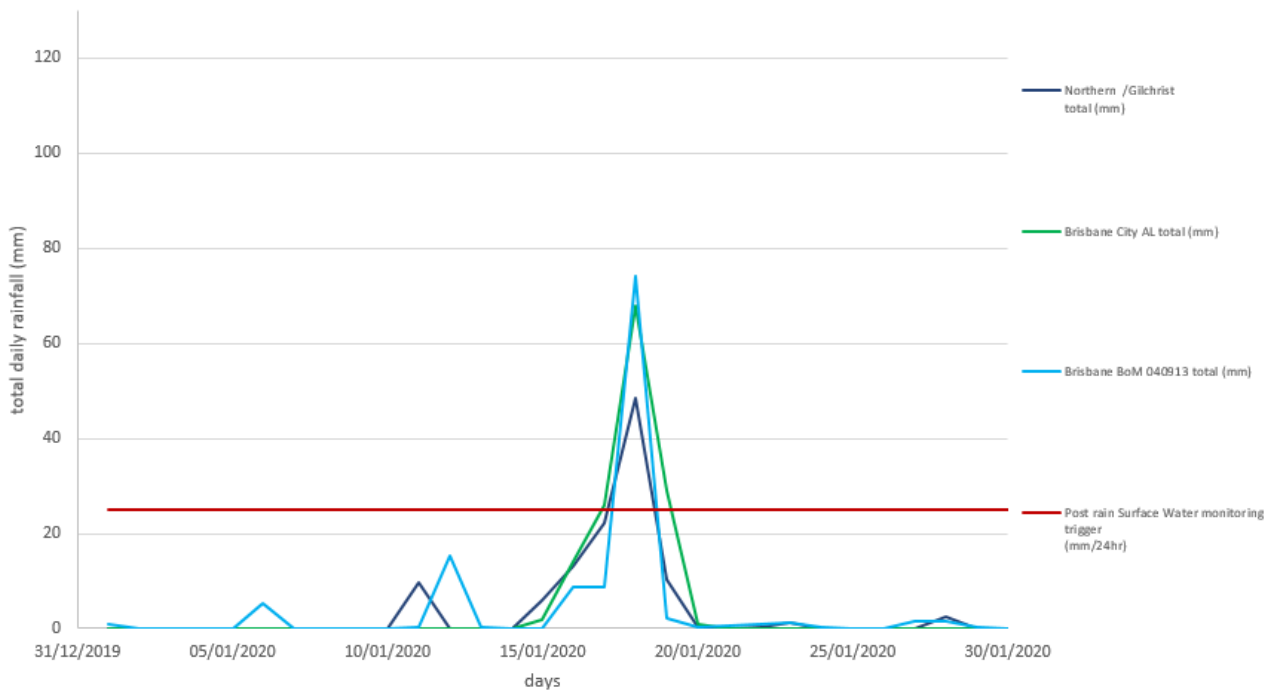
Between December 2019 and January 2020, Unity undertook five (5) surface water sampling rounds. Three rounds consisted of background conditions monitoring. Two rounds consisted of post rain events monitoring.

4.3.1 Rainfall Records

Rainfall records - December 2019



Rainfall records - January 2020



4.3.2 Discharge Monitoring

Nil for this reporting period.

4.3.3 C-EMP Monitoring

The following sections summarise the water quality results from the rounds of monitoring undertaken in December 2019 and January 2020.

4.3.3.1 Breakfast Creek

Breakfast Creek is the surface water receiver for all work at Mayne Yard. Bolded results in blue in Table 4 did not comply with the WQOs for Basin no. 143 - mid-estuary waters.

Very few physico-chemical water quality parameters complied with the WQOs for Basin no. 143 - mid-estuary waters, either during routine monitoring or post rain monitoring.

Post rain monitoring rounds were undertaken whilst no active earthworks or otherwise significant ground disturbance were occurring in Mayne Yard. The area of Mayne Yard (Mayne Yard North) where Unity undertook enabling works activities in October 2019 is stabilised and has effective and sufficient ground cover to achieve compliance with condition 18 of the CGCR.

There were no active or known discharges from site at the time of the sampling events.

Based on this information, Unity has assessed that exceedances of WQOs as imposed by Condition 15(a) are not a result of Project Works and therefore the results are not deemed Non-Compliance Events.

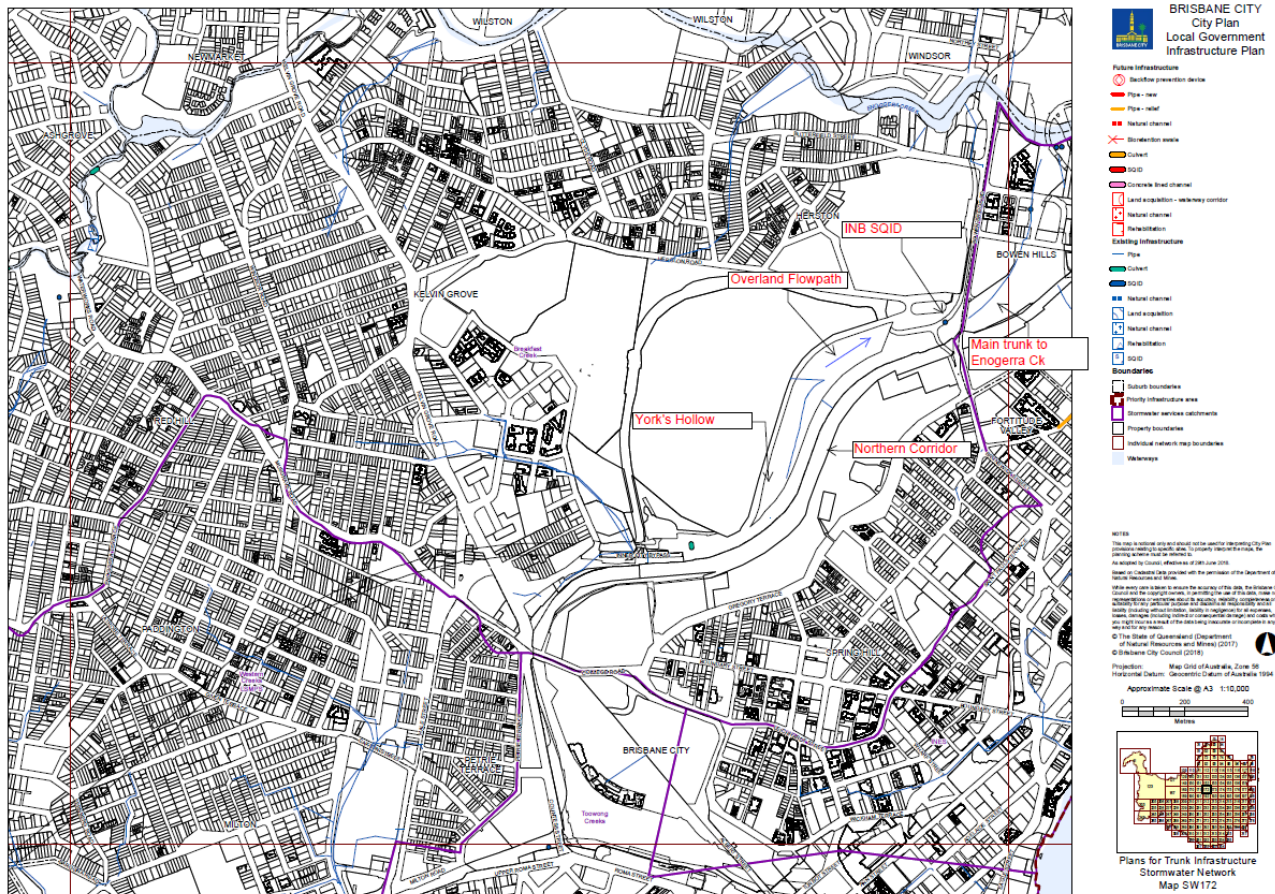
Table 4: Breakfast Creek WQ Data - Physico Chemical Parameters

Date	Tide	Sampling Purpose	SW 1- Upstream				SW2 - Mayne Yard				SW3 - Downstream			
			Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation
05/12/2019	Rising Brackish to marine conditions	Background	10.3	<5	6.84	31.09	8.3	<5	7.53	90.67	10.2	15	7.51	96.58
12/12/2019	Falling freshwater conditions	Post Rain Monitoring	28.7	22	6.53	18	50	47	6.63	5.2	52.3	56	6.96	19.8
19/12/2019	Rising Brackish to marine conditions	Background	10.1	7	7.09	43	8.1	18	7.7	84.5	9.7	7	7.76	85.5
09/01/2020	Falling Brackish to marine conditions	Background	16.4	15	6.93	72	13.5	12	7.86	110	40.8	17	8	124
20/01/2020	Rising freshwater conditions	Post Rain Monitoring	8.6	8	6.9	64.83	17	8	7.01	55.09	44.8	106	7.27	69.97

4.3.3.2 York's Hollow

York's Hollow has been identified as a potential receiver for run off from the Northern Corridor. Since the surface water runoff in and around the Northern Corridor gets redirected to field drop inlets and underground stormwater drainage it is unclear how much of the Northern Corridor effectively discharges into York's Hollow. It is also likely that run off from the Northern Corridor is also drained directly into the main stormwater trunk which is connected to overland flow paths near the Inner Northern Busway (INB) and travels underneath the RNA showground to eventually discharge into Enoggera / Breakfast creek.

York's Hollow also is the main sensitive receiver for run-off from the Inner City Bypass and Victoria Park Gold Course.



Bolded results in blue in Table 4 did not comply with the WQOs for Basin no. 143 - mid-estuary waters.

Very few physico-chemical water quality parameters complied with the WQOs for Basin no. 143 - mid-estuary waters, either during routine monitoring or post rain monitoring.

It is however noted that York's Hollow is not classified as a mid-estuary receiver under the Environmental Protection Policy (Water and Wetland Biodiversity) 2019. The recognised values under this policy are those of a lowland stream with a level of protection for moderately disturbed aquatic ecosystem. Using the relevant WQOs for lowland streams would introduce alternative screening criteria to pursue investigation into site practices around the management of Erosion and Sediment and Discharges. These criteria are also presented in Table 5.

Similar to the Mayne Yard site settings, there were limited ground disturbance activities occurring during January and where disturbance had occurred, the areas had been stabilised with erosion control measures or sediment control devices were in places. Overall, the northern corridor currently remains an active rail corridor with effective and sufficient ground cover to mitigate impacts to the receiving environment.

There were no active or known discharges from site at the time of the sampling events.

Based on this information, Unity has assessed that exceedances of WQOs as imposed by Condition 15(a) are not a result of Project Works and therefore the results are not deemed Non-Compliance Events.

Table 5: York's Hollow WQ Data - Physico Chemical Parameters

Date	Sampling Purpose	SW4 - Downstream				
		Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) N/A
	Lowland Streams WQO	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600
05/12/2019	Background	17.9	14	7.69	127.77	727
12/12/2019	Post Rain Monitoring	17.8	16	6.28	36.8	1425
19/12/2019	Background	1.5	<5	8.47	143	283
09/01/2020	Background	11.8	6	7.47	117	372.8
20/01/2020	Post Rain Monitoring	3.8	<5	6.82	29.44	330.8

4.3.3.3 Moolabin Creek, Rocky Water Holes Creek and Stable Swamp Creek

Moolabin Creek, Rocky Water Holes Creek and Stable Swamp Creek have been identified as the surface water receivers for Moorooka Station / Clapham Yard, Rocklea Station and Salisbury Station respectively

Moolabin Creek and Rocky Water Holes Creek are also currently intersected by the existing rail corridor via means of bridge Structures

Stable Swamp Creek is not intersected by the Corridor South of the Project Boundaries. As it is located 100m due east from Salisbury Station, Unity has deemed it prudent to collect data prior to construction works commencing.

Very few physico-chemical water quality parameters complied with the WQOs for Basin no. 143 - mid-estuary waters, either during routine monitoring or post rain monitoring.

It is however noted that none of these three (3) creeks are classified as a mid-estuary receiver under the Environmental Protection Policy (Water and Wetland Biodiversity) 2019.

The recognised values under this policy are those of a lowland stream with a level of protection for moderately disturbed aquatic ecosystem under the Oxley Creek catchment. Using the relevant WQOs for lowland streams would introduce alternative screening criteria to pursue investigation into site practices around the management of Erosion and Sediment and Discharges. These criteria are also presented in the tables.

The ground disturbance activities that occurred during January were limited to discrete and localised PUP and geotechnical investigations. Overall, the southern corridor currently remains an active rail corridor with effective and sufficient ground cover to mitigate impacts to the receiving environment.

There were no active or known discharges from site at the time of the sampling events.

Based on this information, Unity has assessed that exceedances of WQOs as imposed by Condition 15(a) are not a result of Project Works and therefore the results are not deemed Non-Compliance Events.

Table 6: Moolabin Creek WQ Data - Physico Chemical Parameters

Date	Sampling Purpose	SW5 -Upstream					SW6 - Downstream				
		Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) 600	Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) 600
	Lowland Streams WQO	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600
05/12/19	Background	24	<5	6.49	53.14	562	17.25	16	6.44	3.9	468
12/12/19	Post Rain Monitoring	19.9	8	6.49	56.7	617	23.5	11	6.42	49.8	554
19/12/19	Background	10.5	<5	6.88	85	1080	4.8	10	6.96	74	1130
09/01/20	Background	5.7	<5	6.99	67	582	3.4	<5	6.63	42	568
20/01/20	Post Rain Monitoring	2.6	<5	6.93	72.69	610	4.8	<5	6.82	54.71	593

Table 7: Rocky water Holes Creek WQ Data - Physico Chemical Parameters

Date	Sampling Purpose	SW7 -Upstream					SW8 - Downstream				
		Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) 600	Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) 600
	Lowland Streams WQO	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600
05/12/19	Background	8.71	12	5.91	40.79	191	9.9	16	6.28	20.59	227
12/12/19	Post Rain Monitoring	45.1	20	6.22	29.5	178	52.4	13	6.11	31	171
19/12/19	Background	8.9	8	6.47	4.2	235	3.2	<5	6.52	21	234
09/01/20	Background	6.35	6	6.37	7	252	9.5	<5	6.54	35	272
20/01/20	Post Rain Monitoring	13.3	<5	6.57	27.67	174	12.2	<5	6.66	32.42	170

Table 8: Stable Swamp Creek WQ Data - Physico Chemical Parameters

Date	Sampling Purpose	SW9 - Downstream				
		Turbidity (NTU) 8NTU	TSS (mg/L) 20	pH 7.0-8.4	DO (%) 85 – 105% saturation	EC (µS/cm) N/A
	Lowland Streams WQO	Turbidity (NTU) 50NTU	TSS (mg/L) 6	pH 6.5-8.0	DO (%) 85 – 115% saturation	EC (µS/cm) 600
05/12/2019	Background	224	42	6.58	22.65	456
12/12/2019	Post Rain Monitoring	24.5	7	6.25	39.2	176
19/12/2019	Background	0.1	<5	6.77	41	314
09/01/2020	Background	3.2	<5	6.73	31	428
20/01/2020	Post Rain Monitoring	5.9	<5	6.72	50.05	186

4.3.4 Interpretation and Recommendations

Since there is limited background information available at each location selected for monitoring, it is not possible at this stage to determine whether trends can be seen between tidal cycles and water quality parameters for Breakfast creek.

Similarly, for the freshwater systems, there is insufficient background information at these locations to ascertain whether the results observed are consistent with baseline conditions.

Typical Water Quality results post rain are also subject to a very limited dataset.

Increased turbidities are expected in surface water systems particularly post rain following extended periods of dry weather as the catchments will experience a flush (as experienced in December 2019).

It is however currently not possible to ascertain whether the data collected during the two post rainfall monitoring events are consistent with and reflective of baseline temporal and seasonal fluctuation of the receiving systems.

Whilst exceedances of the WQOs as imposed by Condition 15(a) were recorded, there is no evidence these exceedances are related to the Project Works.

Unity is therefore investigating whether additional background data is available.

Furthermore, WQOs are long term goals for water quality management under base flow conditions and have not been developed to set the benchmark for assessment of compliance of construction sites.

Other documentation prepared by the relevant regulatory bodies must be consulted to inform whether surface water quality of a receiving environment has been adversely affected by construction activities and therefore whether compliance is being met.

They include the following publicly available documents:

- the Queensland water quality guidelines (QWQG) prepared by DERM (now DES) which provide a technical basis for the WQOs. The QWQG also provide more detailed information on water types, water quality indicators, derivation of local water quality guidelines, application during flood events, monitoring, predicting and assessing compliance. (<https://environment.des.qld.gov.au/management/water/quality-guidelines>)
- Procedural guides developed by the DES to assess compliance such as the *Standard work method for the assessment of the lawfulness of releases to waters from construction sites in Queensland*. (<https://environment.des.qld.gov.au/management/water/policy/urban-stormwater/erosion-sediment-control>).

Unity is therefore recommending that if ongoing exceedances of the WQOs as imposed by Condition 15(a) are identified, these aforementioned documents be used to ascertain whether they are to be deemed Non-Compliance Events associated with Project Works.

5 Good News Stories

No Non-Compliance event occurred during the reporting period.

There were no complaints recorded associated with the Project Works.

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

None for this reporting period.

Appendix C – TSD Monthly Report

Extracts from Progress Report

1.9 Environmental and Cultural Heritage Management

- Site activities were conducted throughout January 2020 in accordance with the Construction Environmental Management Plan (CEMP) Rev 0.
- Environment monitoring and inspections were completed as required by the CEMP throughout the reporting period.
- CBGU experienced nil incidents or non-compliances throughout the reporting period. Two potential Non-Compliance Events (NCEs) were received from the Independent Environmental Monitor (IEM) during the month relating to ASS Treatment and Monthly Reporting. In both instances, CBGU demonstrated the items did not constitute Non-Compliance Events.
- Heritage and Contamination Investigations continued within project precinct areas. Clearance was received from Jagera and Turbull Traditional Land Owner Groups on 10 January 2020 relating to a stone artefact uncovered during heritage investigations at the Albert St site.
- Inductions, toolbox talks, and prestart presentations were conducted as works progress
- Site activities continued throughout January 2020 in accordance with CEMP (Rev 0).
- CEMP (Rev 3) was endorsed by the Independent Environmental Monitor on 10 Jan 2020.
- CEMP (Rev 4) is being prepared to enable all project works until project completion. Comments have been received regarding the CEMP and subplans. These are being addressed and resubmitted for endorsement.
- Regulatory approvals were received and progressing according to the below schedule.

Table 13 Approvals & Permits Schedule

Approval / Permit / Licence	Regulatory Authority	Responsibility / Timeframe	Items approved	Scheduled Approval
Completed (Last Month)				
Soil Disposal Permits (Woolloongabba Site)	DES	Environment and Sustainability Manager 15 BD	Removal of contaminated material from site	19 Feb 2020
Waste Levy Exemption (Woolloongabba Site)	DES	Environment and Sustainability Manager 15 BD	Removal of contaminated material from site	28 Feb 2020
Upcoming				
Heritage Exemption Certificate #3	DES	Environment and Sustainability Manager 36 BD	Working on a Queensland heritage place (General tunnelling beneath heritage places)	20 Mar 2020 (To be prepared)
Soil Disposal Permits (for ongoing works)	DES	Environment and Sustainability Manager 15 BD	Removal of contaminated material from site	TBC – Contamination determined by soil analysis (EMR sites)
Waste Levy Exemption	DES	Environment and Sustainability Manager	Removal of contaminated material from site	TBC – reliant on soil analysis (above). No
(for ongoing works)		20 BD		exemption required for clean material.

1.12.6 Complaint register

One complaint was received in January as detailed below. Note this was recorded in the database the next business day after it occurred on Friday 31 January, in the month of February, so does not appear in the D&C Monthly Report for January. However it is captured here for accuracy.

Date	Issue	Stakeholder	Summary of Feedback	Response Within
31 January	Truck driver behaviour	Employee at Ecosciences	Truck driver exiting Peter Doherty Street, turning left onto Annerley Road did not stop to allow the pedestrian to cross safely on the green walk signal. The pedestrian stopped and gave way to the truck to avoid an incident.	One hour

1.12.7 Noise, vibration and precondition surveys

Preconstruction building surveys are underway in line with program priorities. This includes preparation for the next wave of letters offering surveys for tunnelling activities.

January 2020 Monthly Report Summary

Monitoring Summary

Vibration monitoring was conducted on eight (8) occasions and noise monitoring was conducted on thirty (30) occasions during January 2020. Each vibration and noise monitoring event confirmed project requirements were adhered to.

Ambient air quality monitoring was conducted at the Roma Street, Albert St, Woolloongaba and Boggo Rd precinct sites during January 2020. Air quality monitoring confirmed project requirements were adhered to.

Water quality monitoring was conducted prior to the release of water from site on four (4) occasions, and one (1) round of surface water quality monitoring was conducted.

Environmental Monitoring Results

Monitoring data is provided below in accordance Condition 6(b)(i) of the Coordinator General Change Report.

Vibration

CBGU JV undertook unattended and attended vibration monitoring at Roma Steet, Albert Street, Woolloongabba and Boggo Rd worksites.

Vibration monitoring is detailed in the table below.

Table 1: Vibration Monitoring Data

Start Date	Time	Finish Date	Location	Purpose of Monitoring	Average Vibration levels (mm/s)	Max Vibration Level (mm/s)	Adhered to Project Requirements (Yes / No)
9/01/2020	4:03 PM	10/01/202	Boggo Rd	Model Verification	0.23	0.34	Yes
9/01/2020	8:55 AM	NA*	Boggo Rd	Background Data	0.51	3.32	Yes
10/01/2020	11:47 AM	NA*	Boggo Rd	Construction Monitoring at Sensitive Places	0.16	0.39	Yes
28/01/2020	8:26 AM	28/01/2020	Roma St – Heritage Station	Construction Monitoring at Sensitive Places	0.106	0.22	Yes
29/01/2020	7:22 AM	29/01/2020	Roma St – Heritage Station	Construction Monitoring at Sensitive Places	0.133	0.37	Yes
29/01/2020	1:24 PM	29/01/2020	Roma St	Model Verification	0.25	0.86	Yes
30/01/2020	1:55 PM	30/01/2020	Roma St Station	Construction Monitoring at Sensitive Places	0.126	0.33	Yes
30/01/2020	7:49 AM	3/02/2020	Roma St	Model Verification	0.11	0.74	Yes

**Attended monitoring*

Noise

Attended Noise monitoring was undertaken thirty (30) times through out January 2020.

Noise monitoring data is provided in the table below.

Table 2: Noise Monitoring Data

Date	Time	Location	Activity	Noise level LA10 ^[1]	Noise level LAeq ^[2]	Adhered to Project Requirements (Yes / No)
9/01/2020	3:15PM	Boggo Road Site	Site Establishment	64.4	61.2	Yes
9/01/2020	3:40PM	Boggo Road Site	Site Establishment	70.6	67.9	Yes
11/01/2020	11:50AM	Boggo Road Site	Site Establishment	73	68.5	Yes
11/01/2020	12:15PM	Boggo Road Site	Site Establishment	71.6	67.4	Yes
11/01/2020	12:40PM	Round-a-Bout (Joe Baker & Peter Doherty Street)	Site Establishment	70.4	66.8	Yes
17/01/2020	11:20AM	Albert Street	Demolition	75	72.5	Yes
17/01/2020	11:39AM	Albert Street	Demolition	69.1	66.7	Yes
17/01/2020	1:01PM	Roma St	Construction works	75.7	73.4	Yes
17/01/2020	1:31PM	Roma St	Construction works	77.5	74	Yes
21/01/2020	2:12PM	Woolloongabba Site	Earthworks and Stationbox Excavation	66.9	64.1	Yes
21/01/2020	1:49PM	Woolloongabba Site	Earthworks and Stationbox Excavation	73.1	72.5	Yes
22/01/2020	1:55PM	Woolloongabba Site	Earthworks and Stationbox Excavation	70.2	67.2	Yes

22/01/2020	1:30PM	Woolloongabba Site	Earthworks and Stationbox Excavation	71.9	68.3	Yes
22/01/2020	9:20AM	Roma St	Demolition	36	35.2	Yes
22/01/2020	9:45AM	Roma St	Demolition	63	61	Yes
22/01/2020	10:04AM	Roma St	Demolition	57.4	56	Yes
22/01/2020	10:22AM	Roma St	Demolition	59.9	57.5	Yes
23/01/2020	9:00AM	Woolloongabba Site	Earthworks and Stationbox Excavation	74.9	72.8	Yes
23/01/2020	2:14PM	Roma St	Demolition	72.1	68.7	Yes
24/01/2020	1:44PM	Woolloongabba Site	Earthworks and Stationbox Excavation	72.7	71.8	Yes
24/01/2020	1:05PM	Woolloongabba Site	Earthworks and Stationbox Excavation	67.8	65.6	Yes
28/01/2020	10:24AM	Woolloongabba Site	Earthworks and Stationbox Excavation	68	66.4	Yes
28/01/2020	9:58AM	Woolloongabba Site	Earthworks and Stationbox Excavation	72.1	67.9	Yes
29/01/2020	1:44PM	Roma St	Demolition	67.2	62.7	Yes
30/01/2020	3:30PM	Boggo Road Site	Site Establishment	70.4	66.8	Yes
30/01/2020	2:53PM	Roma St	Demolition	71.7	69.1	Yes
31/01/2020	8:00AM	Boggo Road Site	Site Establishment	66.7	63.3	Yes
31/01/2020	8:20AM	Boggo Road Site	Site Establishment	74.3	66.8	Yes
31/01/2020	3:30AM	Albert Street	Construction and Piling works	74.2	70.9	Yes

31/01/2020	4:04AM	Albert Street	Construction and Piling works	78.2	74.9	Yes
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- [1] Intermittent noise goal (LA10)
- [2] Continuous noise goal (LAeq)

Air

Air quality monitoring was conducted at all precinct sites during January 2020.

Monitoring data is provided in the table below.

Table 3: Air Quality Monitoring Data

Location	Project Wide Air Quality Criteria & Goals ^[1]			Monitoring results	Comments
	Criterion	Air Quality Indicator	Level		
Roma St Precinct/ Northern Portal	Nuisance	Deposited dust	120 mg/m ² /day	23.3 mg/m ² /day	Air quality monitoring was performed during the reporting period. All construction related monitoring adhered to project requirements.
Albert St Precinct				36.7 mg/m ² /day	
Woolloongabba Precinct				23.3 mg/m ² /day 13.3 mg/m ² /day	
Boggo Rd Precinct/ Southern Portal				20.0 mg/m ² /day 33.3 mg/m ² /day	

[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.

CBGU JV also reviewed the DES air quality results for PM₁₀ from nearby air quality stations during the reporting period. The results were as follows:

- Brisbane CBD: PM₁₀ daily Maximum average: **31.4 µg/m³** (<https://apps.des.qld.gov.au/air-quality/chart/?station=cbd¶meter=18&date=1/10/2019&timeframe=month>)
- South Brisbane: PM₁₀ daily Maximum average: **31.9 µg/m³** (<https://apps.des.qld.gov.au/air-quality/chart/?station=sbr¶meter=18&date=1/10/2019&timeframe=month>)
- Woolloongabba: PM₁₀ daily Maximum average: **33.9 µg/m³**. (<https://apps.des.qld.gov.au/air-quality/chart/?station=woo¶meter=18&date=1/12/2019&timeframe=month>)

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

There were no exceedances of the PM10 daily criterion recorded at the Brisbane CBD, Woolloongabba and Boggo Rd worksites.

Particle PM₁₀ at Brisbane CBD, 1–31 January 2020 [about Particle PM₁₀](#)

[Brisbane CBD station overview](#)

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

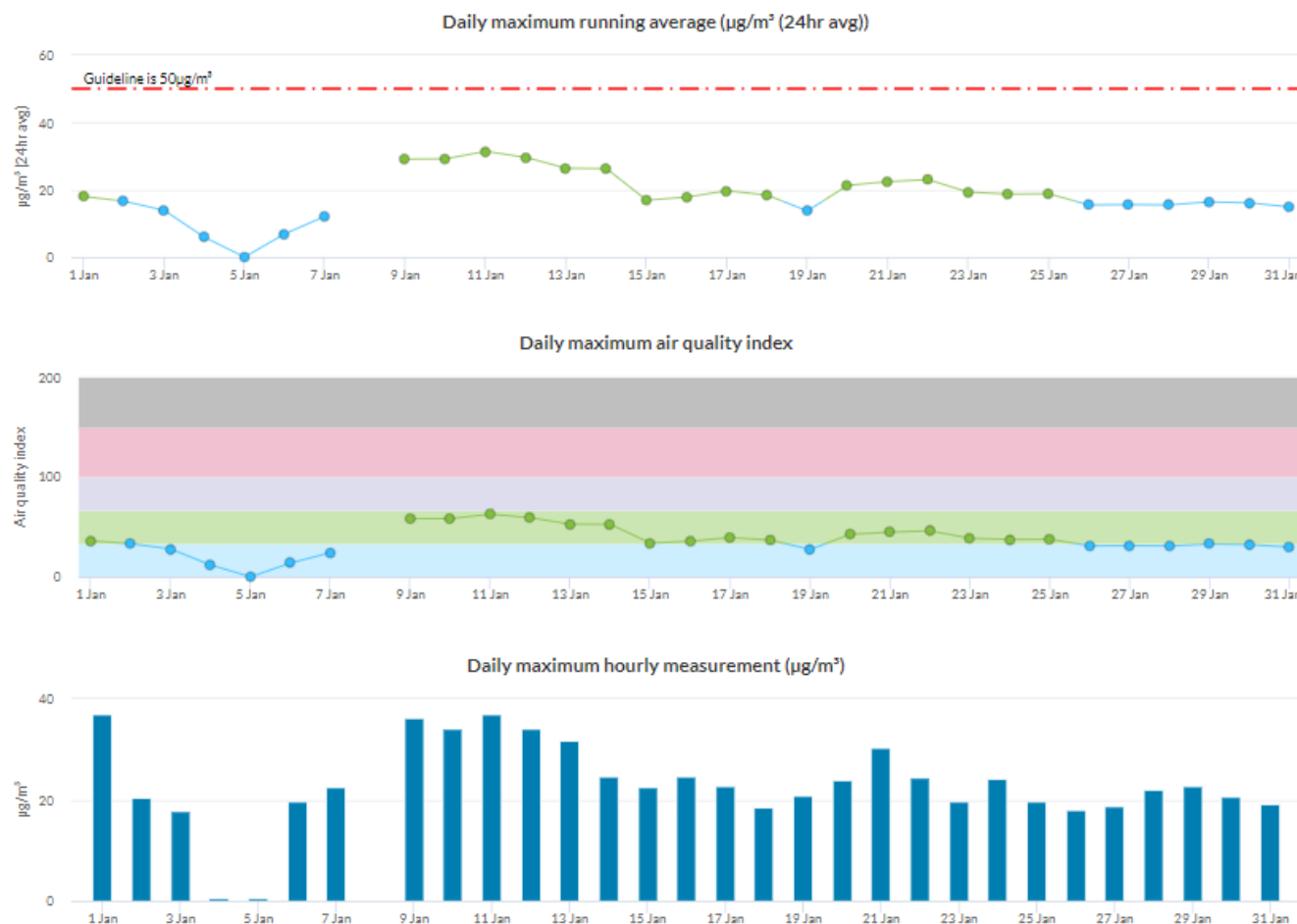




Figure 1: Brisbane CBD – DES Station - PM₁₀ graph for January 2020 (reproduction from the DES website accessed February 2020)

Particle PM₁₀ at South Brisbane, 1–31 January 2020 [about Particle PM₁₀](#)

 [South Brisbane station overview](#)

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

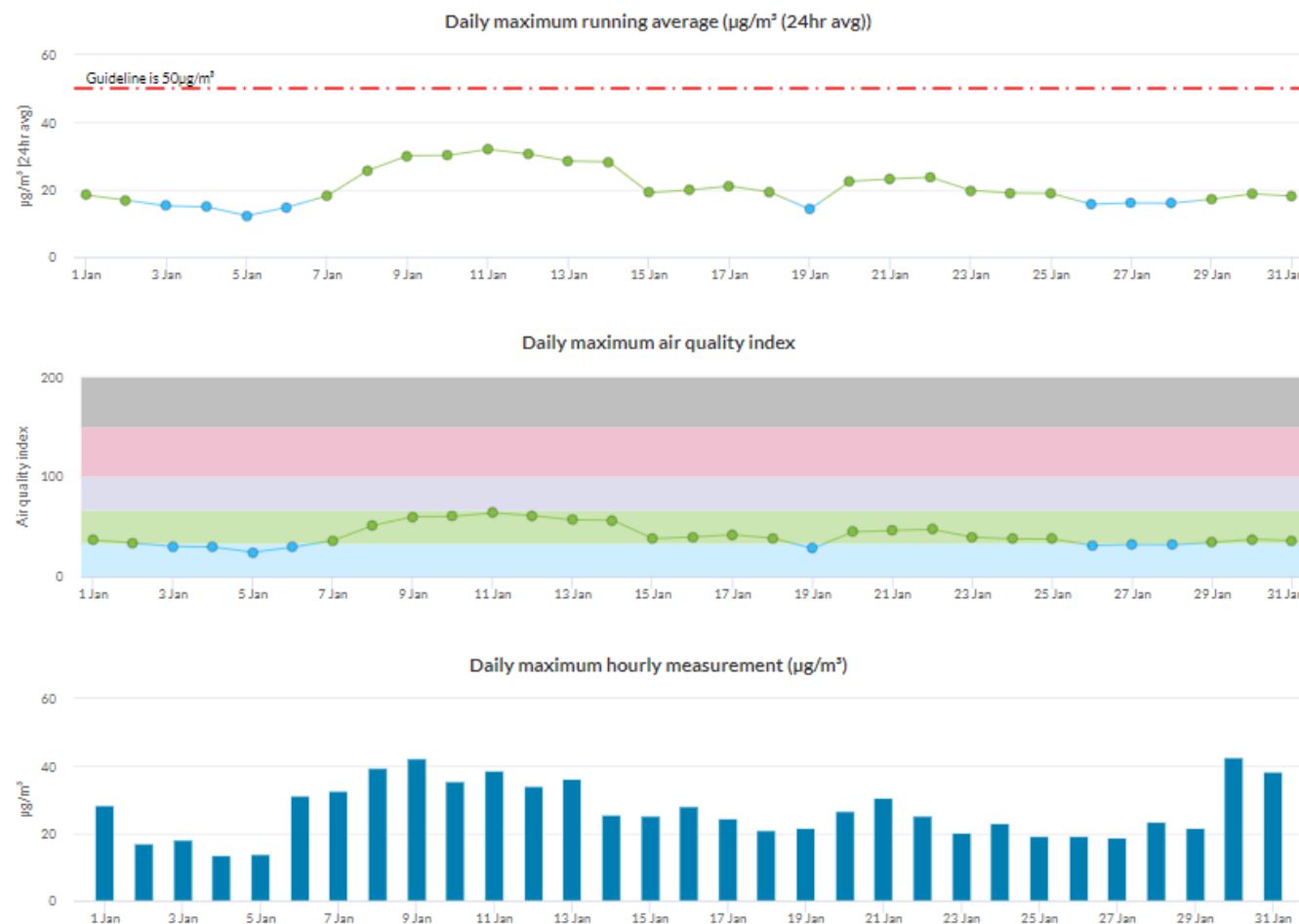
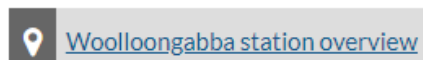


Figure 2: South Brisbane – DES Station - PM₁₀ graph for January 2020 (reproduction from the DES website accessed February 2020)

Particle PM₁₀ at Woolloongabba, 1–31 January 2020 [about Particle PM₁₀](#)



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

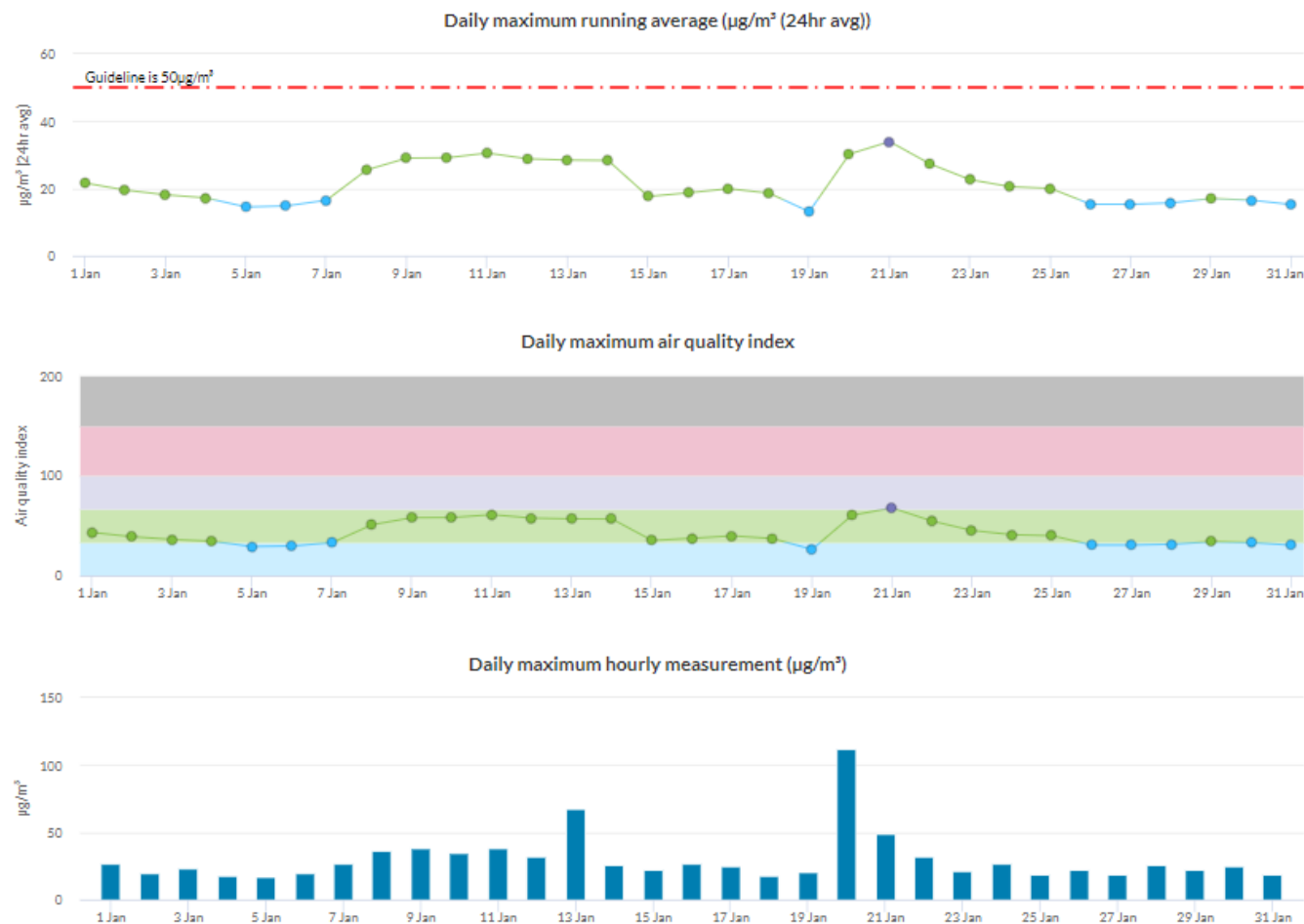


Figure 3: Woolloongabba – DES Station - PM₁₀ graph for January 2020 (reproduction from the DES website accessed February 2020)

Water Quality

Water quality monitoring was conducted prior to the release of water from site on four (4) occasions.

Water quality monitoring data is provided in the table below.

Table 4: Water Quality Monitoring Data

Location	Sampling Purpose	Date	Water Quality Parameter											Adhered to Project Requirements (Yes / No)
			Turbidity	Suspended solids	Chlorophyll a	Total nitrogen	Oxidised N	Ammonia N	Organic N	Total phosphorus	Filterable reactive phosphorus (FRP)	Dissolved oxygen	pH	
Woolloongabba	Discharge of surface water	07/01/20	5.7	7	<2	0.7	0.39	0.23	0.3	<0.01	<0.01	98.16	7.48	Yes
Boggo Rd	Discharge of surface water	20/01/20	7.6	20	<4	0.6	0.32	0.12	0.2	<0.01	<0.01	98.04	7.51	Yes
Woolloongabba	Discharge of surface water	22/01/20	6.26	15	<4	0.5	0.3	0.04	0.1	<0.01	<0.01	100.5	8.0	Yes
Woolloongabba	Discharge of surface water	30/01/20	7.2	10	<2	1.3	0.14	1.16	0.1	<0.01	<0.01	107.8	8.12	Yes

During January 2020, CBGU JV undertook one (1) round of surface water sampling at four (4) locations (upstream and downstream).

Table 5: Offsite Upstream & Downstream Water Quality Data

Location	Date	Turbidity*	Suspended solids	EC (µS/cm)*	Disolved oxygen	pH*	Adhered to Project Requirements (Yes / No)
Roma St Precinct - Upstream	21/01/20	4.0	12	602	75.04	7.84	Yes
Roma St Precinct - Downstream	21/01/20	0.2	19	594	76.25	7.87	Yes
Albert St Precinct - Upstream	21/01/20	8.4	48	601	75.04	7.83	Yes
Albert St Precinct - Downstream	21/01/20	7.5	52	594	73.83	7.84	Yes
Woolloongabba Precinct - Upstream	21/01/20	30.6	*	535.1	*	7.81	Yes
Woolloongabba Precinct - Downstream	21/01/20	21.1	*	548.2	*	7.74	Yes
Boggo Rd Precinct/ Southern Portal – Beginning of the Surface Catchment*	20/01/20	15.1	10	381.1	102.88	7.60	Yes

* TSS and DO were not sampled on this occasion. Monitoring of these parameters to recommence next monitoring period.

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 a such. The pipe outlet receives water released from site, as well as a broader stormwater catchment.

Non-Compliances

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.

Non- Compliance Events Summary

Table 6: 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
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Nil for this reporting period

Complaints

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

Table 7: Summary of Complaints

Date	Locatoin	Issue	CGCR Non-Compliance	Status of Event
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Nil for this reporting period

Appendix D - Non-Compliance Event Reports

No non-compliance event was raised in January 2020.