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1. Introduction

1.1. Background

Parramatta Light Rail Stage 1 ('Stage 1') will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. Stage 1 is expected to be operational in 2023.

Stage 1 will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta's CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, the new Western Sydney Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

Key features of Stage 1 include:

- A new dual track light rail network of approximately twelve (12) kilometres in length, including
 approximately seven (7) kilometres within the existing road corridor and approximately five (5) kilometres
 within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen (16) stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency 'turn-up-and-go' services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period between 7am and 7pm
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers.
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)
- A Stabling and Maintenance (SaM) Facility located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek,
 Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design works along the corridor and at Stop precincts
- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts
- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.



1.1.1. Statutory Context

The Parramatta Light Rail is classified as Critical State Significant Infrastructure (CSSI) and was subject to environmental impact assessment under the *Environmental Planning and Assessment Act 1979* (EP&A Act). The EIS assessed impacts for Parramatta Light Rail Stage 1 (Westmead to Carlingford) including the light rail and associated road enabling works.

Stage 1 received Infrastructure Approval from the Minister for Planning under Section 5.19 of the EP&A Act on 29 May 2018 (Critical State Significant Infrastructure Application SSI-8285), subject to the conditions provided in the Instrument of Approval, specifically Schedule B – Ministerial Conditions of Approval.

The Infrastructure Approval was subsequently modified under Section 5.25 of the EP&A Act on 21 December 2018 and 25 January 2019.

The planning approval, modifications and related environmental assessment documents are located at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=8285.

A Construction Environmental Management Plan (CEMP) has been prepared for the Parramatta Light Rail Package 4 – Infrastructure Works (Infrastructure Works). The purpose of the CEMP and associated Subplans is to address the requirements of the:

- Minister's Conditions of Approval (CoA) SSI-8285
- Revised Environmental Mitigation and Management Measures (REMMMs)
- Environmental Performance Outcomes (EPOs)
- Applicable legislation and contractual requirements, including the PLR Stage 1 Infrastructure Contract Project Deed (ISD-17-6721).

The REMMMs and EPOs are listed in Parramatta Light Rail Stage 1 Westmead to Carlingford via Parramatta CBD and Camellia Environmental Impact Statement (the EIS), as amended by the Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report) (March 2018) (the SPIR). The CEMP and associated Sub-plans were approved the Secretary on the 21 November 2019.

1.2. Scope

The scope of this report is report is to present monthly results of the inspection and monitoring programs outlined in the Infrastructure Works CEMP and associated Sub-plans, including the results of the construction monitoring programs referred to in Condition C9 of the Planning Infrastructure Approval.

Environmental inspections and monitoring are undertaken to:

- Validate the predicted impacts of the Infrastructure Works
- Measure the effectiveness of environmental controls
- Track progress against targets and objectives of the CEMP.

The monitoring requirements for nominated aspects are included in the relevant Sub-plans and summarised in **Table 1-1**.

Where relevant, data will be presented on a progressive basis (i.e. monthly summary) to identify trends. The data of the monitoring programs will also be reviewed annually in the Annual Environment Report.



Table 1-1 Monthly Environmental Monitoring Reporting Requirements

CEMP or Sub-plan	Monitoring program	Distribution
Noise and Vibration Management Sub- plan	 Locations and descriptions of monitoring undertaken Noise monitoring results Summary of any exceedance of the nominated criteria Corrective actions 	 City of Paramatta Council Cumberland Council EPA NSW Health TfNSW IC ER AA Made publicly available
Soil and Water Management Sub- plan	 Weather forecasts and observations Water Quality (Turbidity) monitoring Discharge and dewatering monitoring 	 City of Paramatta Council Cumberland Council EPA DOI Water TfNSW IC Made publicly available
Air Quality and Dust Management Sub- plan	 Weather observations Dust deposition monitoring Real time aerosol dust monitors Asbestos fibre air monitoring 	EPATfNSWICMade publicly available
Grey-headed Flying-fox (GHFF) Construction Monitoring Program	 Weekly visual checks of GHFF camp during high risk periods (1 September to 31 January) 	- TfNSW



2. Site Activities

Table 2-1 provides a summary of the site activities for this reporting period (26 January 2022 to 25 February 2022).

Table 2-1 Site activities during reporting period

Precinct	Site Activities
Westmead and North Parramatta	 Ongoing utility, street lighting and Multi-Function Pole (MFP) installation Traffic Control Signal (TCS) works Retaining wall and driveway works for property adjustment Track works, road and finish works (kerb and gutter) Urban design works (soft and hard landscaping)
Parramatta CBD	 Ongoing utility / services works including MFP, Low Voltage (LV) and property connections Civil works including Combined Services Route (CSR) and pavement adjustments: Macquarie Street, northern side of Lennox Bridge, Macquarie Street, George Street and Tramway Avenue Track works: Church Street (north of Lennox Bridge), Macquarie Street, George Street and Tramway Avenue Property adjustment: George Street, Greek Church Paving (track and footpaths): Church Street, Macquarie Street and Tramway Avenue Finishing works (Horwood Place – Barrack Lane) TCS works (Macquarie Street O'Connell – Church) Defect rectification works (Church Street) Road construction: Macquarie Street, George Street and Tramway Avenue Intersection works: Macquarie Street / Smith Street and Macquarie Street/Harris Street Landscaping: Tramway Avenue, Robin Thomas Reserve, Macquarie Street and George Street
Camellia and Carlingford line	 James Ruse Drive Bridge track works Traffic signal and defect works Landscaping works Defect rectification works from Camellia to Carlingford



3. Monitoring Results

Section 3 presents a summary of the environmental inspection and monitoring programs completed during the reporting period (26 January 2022 to 25 February 2022). Detailed monitoring results for each activity are presented in the appendices to this report.

3.1. Inspections

A total of four ER inspections and one AA inspection were completed during the reporting period in addition to 16 internal inspections. It is also noted that TfNSW attend all ER inspections.

Table 3-1 provides a summary of the number of actions raised and closed within the agreed timeframe.

Table 3-1 Inspections for reporting period

Date	Number of Inspections	Туре	Actions	Closed in Time
28/01/22	1	Internal Inspection	3	Yes
31/01/22	1	Internal Inspection	4	Yes
01/02/22	1	Internal Inspection	5	Yes
01/02/22	1	ER Inspection	1	Yes
02/02/22	1	Internal Inspection	3	Yes
03/02/22	1	Internal Inspection	1	Yes
06/02/22	1	Internal Inspection	0	N/A
07/02/22	1	Internal Inspection	8	Yes
08/02/22	1	ER Inspection	9	Yes
09/02/22	1	Internal Inspection	1	Yes
10/02/22	1	AA Inspection	1	Yes
17/02/22	3	Internal Inspection	10	Yes
18/02/22	2	Internal Inspection	8	Yes
18/02/22	1	ER Inspection	6	Yes
21/02/22	2	Internal Inspection	5	Yes
22/02/22	1	ER Inspection	8	Yes
23/02/22	1	Internal Inspection	1	Yes
Total	21	-	74	-



3.2. Weather

The total rainfall recorded during the reporting period was 198.6 mm with 14 days exceeding one millimetre of rain. One rain event exceeded the 85th percentile (33.1mm).

During the reporting period, there were 29 days where the maximum wind gust recorded was greater than 25km/hr and no days where the maximum wind gust recorded was greater than 50km/hr. There was a total of 10 days where wind speeds greater than 25km/hr were forecast. On those days, a notification was issued to the construction team to alert them of the strong winds forecast, including direction for necessary controls to be implemented.

A summary of the weather observations and weather events during the reporting period of relevance to the Soil and Water Management Sub-plan and Air Quality Management Sub-Plan Trigger Action Response Plans (TARPs) are summarised in **Table 7-2**. A comparison between long term monthly means and recorded values can be found in **Figure 3-2**.

Detailed weather observation records for the reporting period are presented in Appendix A-1.

Table 3-2 Weather summary and trigger weather events for reporting period¹

Weather Event	Forecast	Observation
Minimum temperature	15.0°C	14.5°C
Maximum temperature	33.0°C	35.7°C
Total rainfall	122.8 mm	198.6 mm
Number of days with rain (>1mm)	16 days	14 days
>80 th percentile (25.8mm) rain events	1 event	1 event
>85 th percentile (33.1mm) rain events	1 event	1 event
Flood warning / events	3 warnings	1 event
>25km/hr wind ²	10 days	29 days
>50km/hr wind	No days	No days
>60km/hr wind	No days	No days

¹Weather summary based on data from the 26 January 2022 to 25 February 2022 (31 days).

Note: Red text indicates observation greater than forecast.

²Wind data from Sydney Olympic Park AWS (Archery Centre) {station 066212}. Weather data from Parramatta North (Masons Drive) {station 066124}.



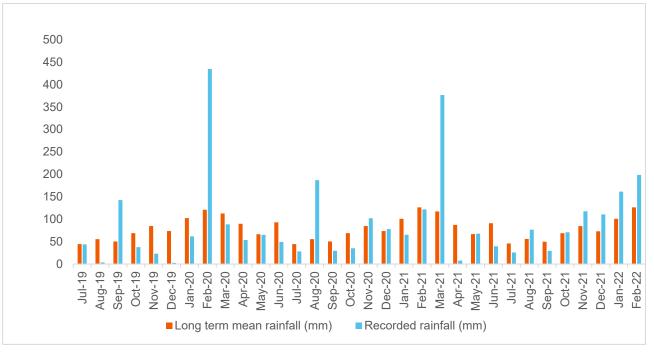


Figure 3-1 Monthly rainfall comparison

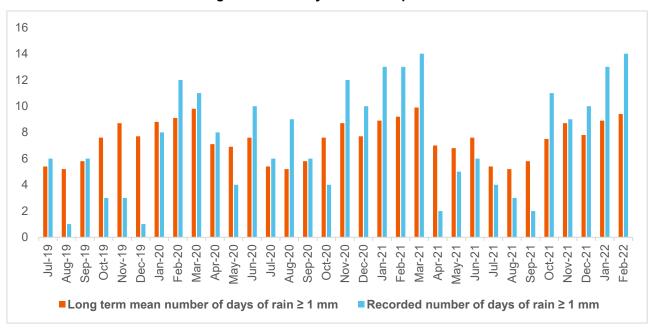


Figure 3-2 Monthly rain days comparison

3.3. Noise and Vibration

Table 3-3 provides a summary of noise monitoring events conducted during the reporting period. Detailed noise monitoring results and comments are presented in **Appendix A-2**. There were no exceedances of the predicted noise level (L_{Aeq15min}) during the reporting period.

Additional information on the hours of works, respite requirements and alternative accommodation is provided in the Noise and Vibration Management Sub-plan (Section 11.3).

Vibration monitoring events completed during the reporting period are summarised in **Table 3-4** and detailed in **Appendix A-2**. During the reporting period, no attended vibration monitoring was undertaken.

All noise and vibration monitors available during the reporting period, together with current NATA calibration data, are provided in **Table 3-5**.

Continuous noise and vibration monitoring was undertaken during the reporting period at medical facilities in Westmead that have been identified as sensitive receivers. In consultation with the Health Administration Corporation, monitoring will be ongoing for 12 months. Locations of the noise and vibration monitors are provided in **Table 3-6.**

Table 3-3 Summary of noise monitoring for reporting period

Date	Monitoring Location	Attended/Continuous	Description
21/02/2022	157 Hawkesbury Rd, Westmead	Attended	Concrete works, trackworks
21/02/2022	199 Hawkesbury Rd, Westmead	Attended	Earthworks
21/02/2022	Cumberland Hospital East	Attended	Earthworks, excavation
21/02/2022	55 O'Connell St, North Parramatta	Attended	Trackworks, earthworks
21/02/2022	St Patricks Cemetery, North Parramatta	Attended	Trackworks
21/02/2022	20 Victoria Rd, Parramatta	Attended	Trackworks
23/02/2022	Arthur Phillip High School, Parramatta	Attended	Trackworks
21/02/2022	9 Noller Pde, Parramatta	Attended	Earthworks, trackworks
21/02/2022	Dundas Station	Attended	Finishing works
26/06/2020 -ongoing	Westmead Institute for Medical Research (Sleep Lab)	Continuous	General construction
26/06/2020 -ongoing	Westmead Institute for Medical Research (Brain Dynamics Centre)	Continuous	General construction
26/06/2020 -ongoing	Children's Medical Research Institute (Microscopy Labs)	Continuous	General construction
26/06/2020 -ongoing	Cumberland Hospital (Clinical psychology rooms)	Continuous	General construction

Table 3-4 Summary of vibration monitoring for reporting period

Date	Monitoring Location	Attended/Continuous	Description
26/06/2020	Westmead Institute for Medical Research (HAL incubators)	Continuous	General construction
26/06/2020	Westmead Institute for Medical Research (Microscopy Labs)	Continuous	General construction
26/06/2020	Children's Medical Research Institute (Microscopy Labs)	Continuous	General construction



Table 3-5 Noise and vibration monitors and NATA Calibration

Equipment	Serial Number	Calibration Date
Noise Level Meter	00973277	2/12/2022*
Noise Level Meter	00661732	01/06/2022
Noise Level Meter	00973275	17/12/2022
Vibration Monitor	BE14639	10/02/2023
Vibration Monitor	BE17441	14/07/2022

^{*}Noise Level Meter was not in use during the reporting period.

Table 3-6 HAC noise and vibration monitor locations

Organisation	Monitor Type Location	
	Vibration Monitor	HAL incubators
Westmead Institute for Medical	Vibration Monitor	Microscopy Labs
Reach	Noise Monitor	Sleep Lab
	Noise Morntoi	Brain Dynamics Centre
Children's Medical Research	Vibration Monitor	Microscopy Labs
Institute	Noise Monitor	Labs (Level 1)
Cumberland Hospital	Noise Monitor	Clinical psychology rooms

Note: The calibration of the monitoring equipment is checked in the field before and after the noise measurement period per Standards Australia AS/IEC 60942:2004/IEC 60942:2003–Electroacoustic – Sound Calibrators.

3.4. Soil and Water

3.4.1. Water quality in receiving waters

A pre-construction investigation to establish water quality objectives for the project is included within the EIS Technical Paper 6 – Water Quality Assessment.

Wet weather monitoring undertaken during the reporting period is summarised in **Table 3-7** and detailed in **Table A-3-1**. The monitoring was undertaken during a 118.0 mm 3-day rainfall event. Water levels were medium to high during the wet sampling. Overall, there was a moderate amount of debris or leaf litter present. All results were within the water quality objectives during the reporting period with the exception of turbidity which exceeded the trigger value for all locations. In each case, the downstream turbidity result was either less than the upstream result or within 20% of the upstream result. As such, the Site-Specific Trigger Value was not exceeded. An investigation of nearby works and discharge points determined that the turbidity results were attributed to the ongoing rainfall event. Further details are presented in **Table A-3-1**.

Table 3-7 Water Quality in Receiving Waters

25/02/22 Monitoring during Water Monitor Wet Clay Cliff Creek: CC1, CC2 Construction Domain Creek: DC1	sults Wet / Dry Locations	W	Type of Results	Туре	Date
	Domain Creek: DC1 Parramatta River: PR1, PR2, PR3, PR4 PR5, PR6	W	Water Monitor		25/02/22



Vineyard Creek: VY1, VY2

A'becketts Creek (AC1, AC2) was inaccessible during the monitoring event.

Table 3-8 Water Monitor Calibration

Equipment ¹	Serial Number	Calibration Date
Water Quality Monitor	DV7F6E7J	23/07/2022

¹All equipment is calibrated by NATA standards.

3.4.2. Discharge and dewatering

There were no discharge events during the reporting period.

3.5. Air Quality

3.5.1. Dust Deposition Monitoring

A dust deposition gauge was installed at 13A Grand Avenue in Camellia in December 2019 in advance of works which commenced at the beginning of February 2020. Baseline data indicated that the value of Total Insoluble Matter (TIM) was 3.9 g/m² before the commencement of construction activities at 13A Grand Avenue.

Additional dust gauges were progressively installed at Rydalmere Station, Dundas Station, Carlingford and Telopea in advance of large-scale earthworks. As of November 2021, the gauges at Carlingford, Telopea and 13A Grand Avenue were removed following conclusion of large-scale earthworks. In December 2021 and early January 2022, the gauges at Rydalmere Station and Dundas Station, respectively, were similarly removed. As such, the dust deposition monitoring program has concluded.

Dust deposition monitoring results for the duration of the monitoring period are summarised in **Table A-4-1** in **Appendix A-4**.

3.5.2. Asbestos Fibre Monitoring

Asbestos air monitoring is completed in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

Asbestos Fibre Monitoring results are summarised in **Table A-4-2** in **Appendix A-4**. All reported results were satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in Work, Health and Safety (2017) Regulation; and SafeWork NSW (2019) Code of Practice – How to Safely Remove Asbestos.

3.6. Flora and Fauna

3.6.1. Grey-Headed Flying Fox Monitoring

A Grey-Headed Flying Fox (GHFF) camp is located in Parramatta Park which lies approximately 150m from the project boundary at the nearest point.



Under Condition of Approval C9, a GHFF Construction Monitoring Program has been developed by TfNSW. The requirements of this Program have been reflected in the Flora and Fauna Management Sub-plan and include visual inspections on a weekly basis during the 'high risk' months of September to January. If distress is observed within the camp, immediate notification must be provided to TfNSW.

In addition, as required by the Environmental Work Method Statement for Bridge Road Bridge, a trained ecologist from Narla Environmental is required to undertake additional inspections of the camp during bridge piling works (**Table 3-9**). As these works have concluded, it was determined using the GHFF Mitigation Application Procedure that weekly visual inspections were not required for the reporting period.

Table 3-9 Observations from Visual Monitoring of Grey Headed Flying Fox Camp

Date	Time	Weather Conditions	Works	Notificati on Triggers ¹	Comments
-	-	-	-	-	-

¹Notification triggers include: >50% of the roost takes flight for over 20 minutes, GHFF leaving the roost in daylight hours, unusual vocalisations, located on or 2m from the ground, panting, saliva spreading, adults moving away from young, GHFF injured or killed on site (including aborted foetuses).

3.7. Issues/incidents/non-compliance

Table 3-10 provides a summary of environmental compliance during the reporting period. There were no environmental incidents or non-compliances identified during the reporting period.

Table 3-10 Issues/incidents/non-compliances

Date	Location	Description
-	-	-



Appendices

A-1 Weather Observations

Table A-1-1 Weather Observations: Parramatta North (Masons Drive) {station 066124}

	Tempe	ratures	Dain			9:00 AM		
Date	Min	Max	Rain	Temp	RH	Cld	Dir	Spd
	°C	°C	mm	°C	%	8th	kn	n/h
26/01/2022	18.2	26.7	0	23	71	8	SSE	2
27/01/2022	16.2	27.5	0	23.8	65	4	SW	6
28/01/2022	19.2	28.5	0	25	60	5	NNE	6
29/01/2022	19.8	30.5	0	24.6	61	4	NE	4
30/01/2022	20	29	0	25.5	71	7	SSE	4
31/01/2022	19.2	30	0	25	76	7	SW	4
1/02/2022	20	35.7	0	26	76	0	SW	2
2/02/2022	20	21.3	15	20	98	8	S	15
3/02/2022	17.6	24.8	5	19.8	70	6	SSW	11
4/02/2022	14.8	24.6	0	20.2	68	4	SSW	9
5/02/2022	15.8	25.2	3	20.5	70	5	SSW	6
6/02/2022	16.2	25.2	0.4	22.2	63	6	SSW	15
7/02/2022	15.6	24	1.2	18.2	88	6	SSW	7
8/02/2022	15.8	25.2	16.6	18	88	8	SSE	4
9/02/2022	14.5	31.8	0.4	20.6	76	0	NW	6
10/02/2022	15.3	33.8	0	23.2	64	0	S	4
11/02/2022	18.8	24.8	6.4	22.5	63	7	SSW	9
12/02/2022	18	23.2	2.8	21.8	66	7	SSE	4
13/02/2022	17	25.6	10.4	20.2	85	4	SSW	2
14/02/2022	14.5	28.8	0.6	20.3	77	5	SW	4
15/02/2022	16.2	28.5	0	21.6	65	3	NE	2
16/02/2022	16	29	0	21	68	3	SW	4
17/02/2022	16.2	35	0	21.2	68	5	NW	2
18/02/2022	18.5	31.2	8.8	22	71	6	SSW	2
19/02/2022	17.5	23.5	4.2	19	90	6	SSE	7
20/02/2022	16.4	31.5	0	21.8	76	0	SW	2
21/02/2022	20.5	31.5	0	23	71	6	W	6
22/02/2022	19.2	21.8	5.8	19.4	96	8	SSW	7
23/02/2022	19.4	27	74	21.5	93	7	SSE	2
24/02/2022	20.2	27	24	22.6	99	7	SSE	2
25/02/2022	20.5	23	20	21.5	99	8	SSE	2



Table A-1-2 Wind Observations: Sydney Olympic Park AWS (Archery Centre) {station 066212}.

Maximum Wind Gusts 9:00 AM 3:00 PM Direction Speed Land 26/01/2022 E 33 13:45 NNE 6 ENE 1 29/01/2022 E 35 14:37 ENE 7 E 1 31/01/2022 E 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N <t< th=""></t<>
26/01/2022 E 33 14:16 NNE 6 E 1 27/01/2022 E 33 13:45 NNE 6 ENE 1 28/01/2022 E 30 15:46 NNE 7 E 1 29/01/2022 ESE 31 14:07 N 7 E 1 30/01/2022 ESE 35 14:37 ENE 7 E 1 31/01/2022 E 30 14:03 NE 2 ESE 2 1/02/2022 ESE 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N 6 E 1 3/02/2022 ESE 33 14:37 SE 7 ESE 1 4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
27/01/2022 E 33 13:45 NNE 6 ENE 1 28/01/2022 E 30 15:46 NNE 7 E 1 29/01/2022 ESE 31 14:07 N 7 E 1 30/01/2022 ESE 35 14:37 ENE 7 E 1 31/01/2022 E 30 14:03 NE 2 ESE 2 1/02/2022 ESE 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N 6 E 1 3/02/2022 ESE 33 14:37 SE 7 ESE 1 4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
28/01/2022 E 30 15:46 NNE 7 E 1 29/01/2022 ESE 31 14:07 N 7 E 1 30/01/2022 ESE 35 14:37 ENE 7 E 1 31/01/2022 E 30 14:03 NE 2 ESE 2 1/02/2022 ESE 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N 6 E 1 3/02/2022 ESE 33 14:37 SE 7 ESE 1 4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
29/01/2022 ESE 31 14:07 N 7 E 1 30/01/2022 ESE 35 14:37 ENE 7 E 1 31/01/2022 E 30 14:03 NE 2 ESE 2 1/02/2022 ESE 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N 6 E 1 3/02/2022 ESE 33 14:37 SE 7 ESE 1 4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
30/01/2022 ESE 35 14:37 ENE 7 E 1 31/01/2022 E 30 14:03 NE 2 ESE 2 1/02/2022 ESE 31 13:52 N 11 E 1 2/02/2022 E 33 11:32 N 6 E 1 3/02/2022 ESE 33 14:37 SE 7 ESE 1 4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
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4/02/2022 ESE 31 13:36 S 9 ESE 2 5/02/2022 E 31 11:59 SE 13 ESE 1
5/02/2022 E 31 11:59 SE 13 ESE 1
· ·
6/02/2022 NE 41 13:20 ENE 15 E 2
7/02/2022 NNE 48 16:53 NE 9 NE 1
8/02/2022 NW 41 23:01 WNW 4 E 1
9/02/2022 ESE 30 11:03 S 9 SSE 9
10/02/2022 NE 28 15:08 NE 7 ENE 1
11/02/2022 E 28 12:20 NE 2 E 1
12/02/2022 SSE 28 7:55 S 17 SSW 9
13/02/2022 ESE 26 12:09 Calm * E
14/02/2022 ESE 28 13:22 Calm * E 1
15/02/2022 E 26 14:51 Calm * NW
16/02/2022 * * * WSW 7 ESE 1
17/02/2022
18/02/2022 SSE 33 16:35 S 15 SE 1
19/02/2022 SSE 46 15:26 SSW 9 SSE 2
20/02/2022 SE 43 15:59 SE 17 SE 2
21/02/2022 E 33 14:30 Calm SE 1
22/02/2022 ESE <u>37</u> 13:59 WNW 2 ESE 2
23/02/2022 ESE 35 11:34 SSE 7 SE 1
24/02/2022 E 28 15:56 WSW 6 E 9
25/02/2022 E 31 15:57 ENE 6 E 1

Notes:

Blue text indicates a rain event greater than 1mm of rain.

The orange text indicates a rain event greater than the 80th percentile of 25.8mm, and a wind speed of greater than 25km/hr Red text indicates a rain event greater than the 85th percentile of 33.1mm, and a wind speed greater than 50km/hr.

^{*} Data was unavailable.

A-2 Noise and Vibration Monitoring Results

Table A-2-1 Noise Monitoring Results

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Additional Mitigation Measures			OT LIVOUICTOR	Exceedance of Predicted	Comments
21/02/2022	11:1	5 Standard Hours	Concrete works, trackworks	Hawkesbury Road	157 Hawkesbury Rd, Westmead	61	76	-	86.6	65.7	-10.3	No	Monthly verification noise monitoring. Traffic is dominant noise source.
21/02/2022	12:03	3 Standard Hours	Earthworks	Hawkesbury Road	199 Hawkesbury Rd, Westmead	59	79	-	70.1	55.6	-23.4	No	Monthly verification noise monitoring. Construction noise is dominant noise source.
21/02/2022	12:36	6 Standard Hours	Earthworks, excavation	Bunya East	Cumberland Hospital East	59	72	-	74.7	57.4	-14.6	No	Monthly verification noise monitoring. Construction noise is dominant noise source.
21/02/2022	15:07	7 Standard Hours	Trackworks, earthworks	Factory/O'Connell	55 O'Connell St, North Parramatta	52	78	-	81.5	68.1	-9.9	No	Monthly verification noise monitoring. Traffic is dominant noise source.
21/02/2022	15:32	2 Standard Hours	Trackworks	Church/Pennant Hills Road	St Patricks Cemetery, North Parramatta	61	71	-	76.9	62.4	-8.6	No	Monthly verification noise monitoring. Traffic is dominant noise source.
21/02/2022	16:00	0 Standard Hours	Trackworks	Church Street	20 Victoria Rd, Parramatta	69	72	-	88.9	68.3	-3.7	No	Monthly verification noise monitoring. Traffic is dominant noise source.
23/02/2022	16:02	2 Standard Hours	Trackworks	Macquarie Street	Arthur Phillip High School, Parramatta	68	74	-	87.7	59.7	-14.3	No	Monthly verification noise monitoring. Non-PLR construction noise is dominant noise source.
21/02/2022	13:3	1 Standard Hours	Earthworks, trackworks	George Street	9 Noller Pde, Parramatta	53	77	-	72.1	54.8	-22.2	No	Monthly verification noise monitoring. Construction noise clearly audible.
21/02/2022	14:09	9 Standard Hours	Finishing works	Dundas	Dundas Station	55	77	-	63.9	48.0	-29.0	No	Monthly verification noise monitoring. Construction noise sometimes audible.
26/06/2020 - ongoing	Continu	uous monitoring	Construction works	Hawkesbury Road works	Westmead Institute for Medical Research (Sleep Lab)	65	*	*	*	*	*	No	Activities are reviewed in response to exceedance alerts. Where the exceedance is attributed to
26/06/2020 - ongoing	Continu	uous monitoring	Construction works	Hawkesbury Road works	Westmead Institute for Medical Research (Brain Dynamics Centre)	65	*	*	*	*	*	No	construction, a review is undertaken of works and plant/equipment or methodology is modified where necessary.
26/06/2020 - ongoing	Continu	uous monitoring	Construction works	Hawkesbury Road works	Children's Medical Research Institute (Microscopy Labs)	65	*	*	*	*	*	No	No exceedances were attributed to Parramatta Connect construction activities.
26/06/2020 - ongoing	Continu	uous monitoring	Construction works	Cumberland Hospita	Cumberland Hospital I (Clinical psychology rooms)	55	*	*	*	*	*	No	Continuous monitoring values are available on request.

¹Sound Pressure Level (SPL) used instead of NML

Notes:

Standard hours

- a) All areas excluding Eat Street and Camellia Monday to Friday 7:00 am to 7:00 pm. Saturday 8:00 am to 6:00 pm
- b) Eat Street (Church Street between Palmer Street and George Street) Monday to Friday 7:00 am to 6:00 pm. Saturday 8:00 am to 12:00 pm)
- c) Camellia, Rosehill and Rydalmere (east of James Ruse Drive to Victoria Road) 24 hours a day and seven days a week provided that sensitive receivers are not affected by noise levels of greater than 5 dBA above the rating background level at any residence

OOHW Period 1 is defined as:

- a) 6:00pm to 10:00pm (evenings) Monday to Saturday
- b) 7:00am to 8:00am and 1:00pm to 10:00pm (day & evening) Saturday and
- c) 8:00am to 6:00pm Sunday and public holidays (days).

OOHW Period 2 is defined as:

Additional Mitigation Measures

PN = Project Notification

V = Verification Monitoring

RP = Respite Period

AA = Alternate Accommodation

SN = Specific Notification / individual briefing or phone call

DR = Duration Reduction

RO = Project Specific Respite Offer

a) 10:00pm to 7:00am (nights) Monday to Saturday and 6:00pm to 8:00am (nights) Sundays and public holidays.

Table A-2-2 Vibration Monitoring Results

Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	Trigger Value (mm/s)	95 th Percentile PPV (mm/s)	Maximum PPV (mm/s)	Exceedance of Target	Construction Vibration Exceedance	Comments	
26/06/2020	Continu	ous monitoring	Hawkesbury Road works	Hawkesbury Road	Westmead Institute for Medical Research (HAL incubators)	0.1 mm/s	*		No	No	Activities are reviewed in response to exceedance alerts. Where the exceedance is attributed to	
26/06/2020	Continu	ous monitoring	Hawkesbury Road works	Hawkesbury Road	Westmead Institute for Medical Research (Microscopy Labs)	0.1 mm/s	*		No	No	construction, a review is undertaken of works and plant/equipment or methodology is modified where necessary.	
26/06/2020	Continu	ous monitoring	Hawkesbury Road works	Hawkesbury Road	Children's Medical Research Institute (Microscopy Labs)	0.1 mm/s	*		No	No	No exceedances were attributed to PLR construction activities. Continuous monitoring values are	
											available on request.	

A-3 Water Sampling and Discharge Results

Table A-3-1 Water Quality Monitoring - Comments and observations

Location	n Waterway	Upstream/ Downstream of	Type ³	Date	Time	рН	Elec. Conduct. (µS/cm)	Turbidity (NTU)	Comments and Observations
		Works				5.5- 8.5 ²	LR ¹ : 125– 2200 ² E: None	6-50 ²	
CC1	Clay Cliff Creek	Upstream	Wet 2	25/02/2022	10:27	7.91	307	95.6	Overcast weather, no rubbish, very high turbidity, minimal leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; location is upstream and not affected by Parramatta Connect works.
CC2	Clay Cliff Creek	Downstream	Wet 2	25/02/2022	10:11	7.86	323	67.9	Overcast weather, large amount of rubbish, moderate turbidity, moderate amount of leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; value is lesser than the upstream location (CC1).
DC1	Domain Creek	Upstream	Wet 2	25/02/2022	16:19	7.63	182	77.3	Overcast weather, no rubbish, high turbidity, large amount of leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; nearby works and discharge points investigated, high value attributed to rainfall event.
PR1	Parramatta River	Upstream	Wet 2	25/02/2022	15:22	7.71	260	97.9	Rainy weather, no rubbish, very high turbidity, moderate leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; location is upstream and not affected by Parramatta Connect works.
PR2	Parramatta River	Downstream	Wet 2	25/02/2022	15:51	7.72	221	105	Overcast weather, no rubbish, very high turbidity, moderate leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; value is below a 20% increase in NTU relative to the upstream location (PR1).
PR3	Parramatta River	Upstream	Wet 2	25/02/2022	11:28	7.62	209	83	Rainy weather, no rubbish, high turbidity, moderate leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; location is upstream and not affected by Parramatta Connect works.

l coetice	Matamusi	Upstream/ Downstream of	Type ³	Date	Time	рН	Elec. Conduct. (µS/cm)	Turbidity (NTU)	Comments and Observations
Location	n Waterway	Works				5.5- 8.5 ²	LR ¹ : 125– 2200 ² E: None	6-50 ²	Comments and Observations
PR4	Parramatta River	Downstream	Wet 2	25/02/2022	11:05	7.84	254	86.1	Rainy weather, no rubbish, high turbidity, no leaf litter or vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; value is below a 20% increase in NTU relative to the upstream location (PR3).
PR5	Parramatta River	Upstream	Wet 2	25/02/2022	9:49	7.78	252	92	Overcast weather, no rubbish, very high turbidity, no leaf litter or vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; location is upstream and not affected by Parramatta Connect works.
PR6	Parramatta River	Downstream	Wet 2	25/02/2022	14:37	7.83	272	86.4	Rainy weather, no rubbish, high turbidity, minimal leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; value is lesser than the upstream location (PR5).
SC1	Subiaco Creek	Upstream	Wet 2	25/02/2022	14:23	7.75	163	128	Rainy weather, no rubbish, very high turbidity, large amount of leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; nearby works and discharge points investigated, high value attributed to rainfall event.
VY1	Vineyard Creek	Upstream	Wet 2	25/02/2022	14:56	7.5	294	148	Rainy weather, no rubbish, very high turbidity, minimal leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; location is upstream and not affected by Parramatta Connect works.
VY2	Vineyard Creek	Downstream	Wet 2	25/02/2022	14:52	7.55	277	136	Rainy weather, no rubbish, very high turbidity, large amount of leaf litter and vegetation. Exceedance of ANZECC Guideline Trigger Value for turbidity noted; value is lesser than the upstream location (VY1).

^{1.} ANZECC Waterway types: Fresh water (PR1, PR2, PR3, PR4, VY1 and VY2); E: Estuarine (CC1, CC2, AC1, AC2, PR5, PR6 and SC1).

^{2.} Trigger values were established by Parramatta Connect within the Pre-Construction Sampling (Baseline Review) Water Quality Monitoring Report (PLR1INF-CPBD-ALL-WA-RPT-000003). Red text indicates values outside of the baseline trigger values.

^{3.} Charles Street Weir separates Parramatta River from up and downstream.



Table A-3-2 Discharge Water Quality

Discharge monitoring Point ID	Type of Monitoring Point	Type of Discharge Point	Date	Discharge Permit #	Oil and Grease (Not visible)	pH (6.5 - 8.5)	Turbidit y (NTU)	Comments
	-	-	-	-	-	-	-	-

A-4 Air Quality Monitoring Results

Table A-4-1 Summary of Dust Deposition Data (Ash Content)

Date	Monitoring Location	Ash Content g/m²/month	Total Insoluble Matter g/m²/month¹
January	13A Grand Avenue	0.3	0.4
January	Rydalmere	1.0	1.6
January	Dundas	0.7	1.0
January	Telopea	0.5	1.8
January	Carlingford	1.6	2.0
February	13A Grand Avenue	0.3	0.3
February	Rydalmere	1.0	1.3
February	Dundas	2.2	2.6
February	Telopea	1.9	3.7
February	Carlingford	8.2	9.5
March	13A Grand Avenue	0.2	0.2
March	Rydalmere	3.9	4.7
March	Dundas	1.5	1.7
March	Telopea	1.2	2.6
March	Carlingford	1.8	2.2
April	13A Grand Avenue	1.0	1.4
April	Rydalmere	0.7	0.9
April	Dundas	0.7	2.5
April	Telopea	0.2	0.3
April	Carlingford	0.4	0.5
May	13A Grand Avenue	0.5	0.5
May	Rydalmere	2.8	3.9
May	Dundas	3.8	4.5
May	Telopea	2.2	3.1
May	Carlingford	0.9	1.2

Date	Monitoring Location	Ash Content g/m²/month	Total Insoluble Matter g/m²/month¹
June	13A Grand Avenue	7	8
June	Rydalmere	1	1.2
June	Dundas	3.5	4.2
June	Telopea	0.5	0.8
June	Carlingford	0.7	1
July and August	13A Grand Avenue	3.6	4.2
July and August	Rydalmere	<0.1	0.1
July and August	Dundas	0.5	0.7
July and August	Telopea	0.1	0.3
July and August	Carlingford	0.4	0.6
September	13A Grand Avenue	6.2	7.4
September	Rydalmere	0.2	0.3
September	Dundas	0.9	1.3
September	Telopea	0.2	0.6
October	Rydalmere	2.3	3.7
October	Dundas	2.7	4
November	Rydalmere	3.3	4.1
November	Dundas	1.3	1.6
December	Dundas	1.2	1.9
January	No result - dust gauges removed in early January	-	-
			

Values in red font denote an exceedance of the trigger value.

Table A-4-2 Summary of Asbestos Fibre Monitoring

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR348	27-Jan	CAMELLIA, ACCESS ROAD, APPROX 120M NORTH OF CAMELLIA TRIANGLE	8:04	15:56	0/100	<0.01
AMR348	27-Jan	CAMELLIA, ACCESS ROAD, APPROX 160M NORTH OF CAMELLIA TRIANGLE	8:05	15:55	0/100	<0.01
AMR348	27-Jan	CAMELLIA, RAIL CORRIDOR, APPROX 200M NORTH OF CAMELLIA TRIANGLE	8:06	15:54	0/100	<0.01
AMR349	27-Jan	ARTHUR ST COMPOUND, NW CORNER OF OVERPASS	7:25	16:12	0/100	<0.01
AMR349	27-Jan	ARTHUR ST COMPOUND, SW CORNER OF OVERPASS	7:26	16:15	0/100	<0.01
AMR349	27-Jan	ARTHUR ST COMPOUND, APPROX 40 M WEST OF SW CORNER OF OVERPASS	7:27	16:14	0/100	<0.01
AMR350	28-Jan	EAST BOUNDARY APPROX 120M NORTH OF CAMELLIA TRIANGLE	7:12	16:08	0/100	<0.01
AMR350	28-Jan	EAST BOUNDARY APPROX 160M NORTH OF CAMELLIA TRIANGLE	7:13	16:07	0/100	<0.01
AMR350	28-Jan	CENTRE OF TRACK, APPROX 200M NORTH OF CAMELLIA TRIANGLE	7:14	16:06	0/100	<0.01
AMR351	28-Jan	NORTH WEST CORNER OF OVERPASS	7:44	15:49	0/100	<0.01
AMR351	28-Jan	SOUTH WEST CORNER OF OVERPASS	7:43	15:48	0/100	<0.01
AMR351	28-Jan	SOUTH GATE TO ARTHUR ST	7:42	15:47	0/100	<0.01
AMR352	29-Jan	CENTRE OF TRACK, APPROX 200 M NORTH OF TRIANGLE	7:12	12:25	0/100	<0.01
AMR352	29-Jan	CENTRE OF TRACK APPROX 240 M NORTH OF TRIANGLE	7:13	12:26	0/100	<0.01

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR352	29-Jan	WESTERN BOUNDARY OF TRACK APPROX 220 M NORTH OF TRIANGLE	7:14	12:27	0/100	<0.01
AMR353	29-Jan	NORTH WEST CORNER OF OVERPASS	7:33	12:37	0/100	<0.01
AMR353	29-Jan	SOUTH WEST CORNER OF OVERPASS	7:34	12:38	0/100	<0.01
AMR353	29-Jan	ACROSS GATE OF ARTHUR ST	7:35	12:39	0/100	<0.01
AMR354	31-Jan	EXCAVATION AREA ADJACENT JAMES HARDIE BRIDGE, WEST SIDE OF TRACK, SOUTH AREA FENCE LINE	7:11	15:05	2/100	<0.01
AMR354	31-Jan	EXCAVATION AREA ADJACENT JAMES HARDIE BRIDGE, WEST SIDE OF TRACK, NORTH AREA FENCE LINE	7:13	15:08	0/100	<0.01
AMR354	31-Jan	EXCAVATION AREA ADJACENT JAMES HARDIE BRIDGE, EAST SIDE OF TRACK, NORTH AREA FENCE LINE	7:18	15:12	0/100	<0.01
AMR354	31-Jan	EXCAVATION AREA ADJACENT JAMES HARDIE BRIDGE, EAST SIDE OF TRACK, SOUTH AREA FENCE LINE	7:20	15:15	0/100	<0.01
AMR355	31-Jan	ARTHUR ST COMPOUND, ADJACENT SOUTH CENTRE GATE, STORE STEPS	7:57	16:15	0/100	<0.01
AMR355	31-Jan	ARTHUR ST COMPOUND, SOUTH WEST CORNER OF OVERPASS, FENCELINE	7:59	16:18	0/100	<0.01
AMR355	31-Jan	ARTHUR ST COMPOUND, NORTH WEST CORNER OF OVERPASS	8:01	16:20	0/100	<0.01
AMR355	31-Jan	ARTHUR ST COMPOUND, NORTH CENTRE GATE, FENCE LINE	8:03	16:23	0/100	<0.01

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR356	1-Feb	30M NORTH OF CAMELLIA JUNCTION WEST OF TRACK FENCELINE	7:28	15:10	0/100	<0.01
AMR356	1-Feb	30M NORTH OF CAMELLIA JUNCTION EAST OF TRACK FENCELINE	7:31	15:13	0/100	<0.01
AMR356	1-Feb	50M NORTH OF CAMELLIA JUNCTION EAST OF TRACK FENCELINE	7:33	15:15	0/100	<0.01
AMR356	1-Feb	DRIVEWAY TO GATE 22 EAST BOUNDARY ADJACENT TO STOCKPILE WOODEN PILE	7:35	15:20	2/100	<0.01
AMR357	1-Feb	ADJACENT SOUTH CENTRE GATE FENCELINE	7:00	16:15	0/100	<0.01
AMR357	1-Feb	ADJACENT NORTH CENTRE GATE FENCELINE	7:02	16:18	0/100	<0.01
AMR357	1-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:05	16:21	0/100	<0.01
AMR357	1-Feb	SOUTH SUDE OF OVER PASS BRIDGE LEDGE	7:07	16:23	0/100	<0.01
AMR358	2-Feb	DRIVEWAY TO GATE 22, SOUTH OF STOCKPILE FENCELINE	8:28	15:33	0/100	<0.01
AMR358	2-Feb	DRIVEWAY TO GATE 22, EAST OF STOCKPILE, WOODEN PILES	8:30	15:35	0/100	<0.01
AMR358	2-Feb	DRIVEWAY TO GATE 22, NORTH OF STOCKPILE FENCELINE	8:33	15:38	0/100	<0.01
AMR359	2-Feb	ADJACENT SOUTH CENTRE GATE FENCELINE	7:18	15:55	0/100	<0.01
AMR359	2-Feb	ADJACENT NORTH CENTRE GATE FENCELINE	7:23	15:58	0/100	<0.01
AMR359	2-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:25	16:01	0/100	<0.01
AMR359	2-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:28	16:03	0/100	<0.01
AMR360	3-Feb	ADJACENT SOUTH, ARTHUR ST GATE, FENCELINE	7:02	15:20	0/100	<0.01
AMR360	3-Feb	ADJACENT NORTH, ARTHUR ST GATE, FENCELINE	7:04	15:21	0/100	<0.01
AMR360	3-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:06	15:23	0/100	<0.01

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR360	3-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:08	15:24	0/100	<0.01
AMR361	4-Feb	ADJACENT SOUTH ARTHUR ST GATE FENCE LINE	7:30	15:15	0/100	<0.01
AMR361	4-Feb	ADJACENT NORTH ARTHUR ST GATE FENCE LINE	7:33	15:18	0/100	<0.01
AMR361	4-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:35	15:21	0/100	<0.01
AMR361	4-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:38	15:23	0/100	<0.01
AMR362	5-Feb	NE CORNER OF WORK AREA, WEST END OF OVERPASS	7:09	11:31	0/100	<0.01
AMR362	5-Feb	SE CORNER OF WORK AREA, WEST END OF OVERPASS	7:10	11:32	0/100	<0.01
AMR362	5-Feb	NW CORNER OF WORK AREA, ARTHUR ST	7:11	11:33	0/100	<0.01
AMR362	5-Feb	SW CORNER OF WORK AREA, ARTHUR ST	7:12	11:34	0/100	<0.01
AMR363	7-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCE LINE	7:19	15:15	0/100	<0.01
AMR363	7-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCE LINE	7:21	15:16	0/100	<0.01
AMR363	7-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:23	15:18	0/100	<0.01
AMR363	7-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:25	15:21	0/100	<0.01
AMR364	8-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCE LINE	7:18	15:03	0/100	<0.01
AMR364	8-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCE LINE	7:09	15:05	0/100	<0.01
AMR364	8-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:12	15:08	0/100	<0.01
AMR364	8-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:15	15:11	0/100	<0.01
AMR365	9-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCE LINE	7:15	15:00	0/100	<0.01
AMR365	9-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCE LINE	7:08	15:03	0/100	<0.01
AMR365	9-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:11	15:05	0/100	<0.01
AMR365	9-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:13	15:08	0/100	<0.01
AMR366	10-Feb	ADJACENT SOUTH ARTHUR ST GATE FENCELINE	7:30	15:00	0/100	<0.01
AMR366	10-Feb	ADJACENT NORTH ARTHUR ST GATE FENCELINE	7:32	15:03	0/100	<0.01
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Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR366	10-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:35	15:05	0/100	<0.01
AMR366	10-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:38	15:08	0/100	<0.01
AMR367	11-Feb	ADJACENT SOUTH ARTHUR ST GATE FENCELINE	7:07	15:00	0/100	<0.01
AMR367	11-Feb	ADJACENTNORTH ARTHUR ST GATE FENCELINE	7:01	15:03	0/100	<0.01
AMR367	11-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:03	15:08	0/100	<0.01
AMR367	11-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:05	15:12	0/100	<0.01
AMR368	12-Feb	ADJACENT SOUTH ARTHUR ST GATE FENCLINE	7:00	11:30	0/100	<0.01
AMR368	12-Feb	ADJACENT NORTH ARTHUR ST GATE FENCELINE	7:03	11:35	0/100	<0.01
AMR368	12-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:09	11:39	0/100	<0.01
AMR368	12-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:08	11:44	0/100	<0.01
AMR369	14-Feb	ADJACENT NORTH ARTHUR ST GATE FENCELINE	7:24	14:42	0/100	<0.01
AMR369	14-Feb	NORTH SIDE OF OVERPASS BRIDGE LEDGE	7:26	14:45	0/100	<0.01
AMR369	14-Feb	SOUTH SIDE OF OVERPASS BRIDGE LEDGE	7:28	14:48	0/100	<0.01
AMR369	14-Feb	ARTHUR ST COMPOUND DRIVEWAY SOUTH FENCELINE	7:31	14:53	0/100	<0.01
AMR369	14-Feb	ADJACENT SOUTH ARTHUR ST GATE FENCELINE	7:33	14:56	0/100	<0.01
AMR370	15-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCE LINE	7:00	15:10	1/100	<0.01
AMR370	15-Feb	NORTH OF OVERPASS, BRIDGE LEDGE	7:02	15:13	0/100	<0.01
AMR370	15-Feb	SOUTH OF OVERPASS, BRIDGE LEDGE	7:04	15:15	0/100	<0.01
AMR370	15-Feb	ARTHUR ST COMPOUND DRIVE WAY, SOUTH FENCE LINE	7:07	15:18	0/100	<0.01
AMR370	15-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCE LINE	7:09	15:22	0/100	<0.01
AMR371	19-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCE LINE	7:07	15:20	0/100	<0.01
AMR371	19-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:09	15:22	0/100	<0.01
AMR371	19-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:11	15:25	0/100	<0.01

Report Number	Date	Location	Start time	End time	Result (Fibres/Fields)	Result (Fibres/mL)
AMR371	19-Feb	ARTHUR ST COMPOUND DRIVE WAY, SOUTH FENCE LINE	7:12	15:27	0/100	<0.01
AMR371	19-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCE LINE	7:15	15:30	0/100	<0.01
AMR372	21-Feb	ADJACENT NORTH ARTHUR ST GATE, FENCELINE	7:04	11:20	0/100	<0.01
AMR372	21-Feb	ADJACENT SOUTH ARTHUR ST GATE, FENCELINE	7:06	11:22	0/100	<0.01
AMR372	21-Feb	SOUTH SIDE OF OVERPASS, BRIDGE LEDGE	7:08	11:24	0/100	<0.01
AMR372	21-Feb	NORTH SIDE OF OVERPASS, BRIDGE LEDGE	7:10	11:26	0/100	<0.01
AMR372	21-Feb	TRAMWAY, SOUTH SIDE OF WORK AREA, FENCELINE	7:25	11:30	0/100	<0.01
AMR372	21-Feb	TRAMWAY, EAST SIDE OF WORK AREA, FENCELINE	7:26	11:33	0/100	<0.01
AMR372	21-Feb	TRAMWAY, NORTH EAST SIDE OF WORK AREA, FENCELINE	7:28	11:35	0/100	<0.01
AMR372	21-Feb	TRAMWAY, NORTH WEST SIDE OF WORK AREA, FENCELINE	7:30	11:38	0/100	<0.01