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Project number	N81080
Document number:	PLR1INF-CPBD-ALL-PE-RPT-000040
Revision date:	27/07/2020
Revision:	A

Rev.	Date	Prepared By	Reviewed By	Approved By	Remarks
Α	27/07/2020	O Cooper	D. Corish	D. Corish	Monthly EPL Report for July 2020



1. Introduction

1.1. Background

Parramatta Light Rail is one of the NSW Government's major infrastructure projects being delivered to serve a growing Sydney.

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.

In summary, the 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.

An overview of Parramatta Light Rail Stage 1 route is shown in Figure 1-1.

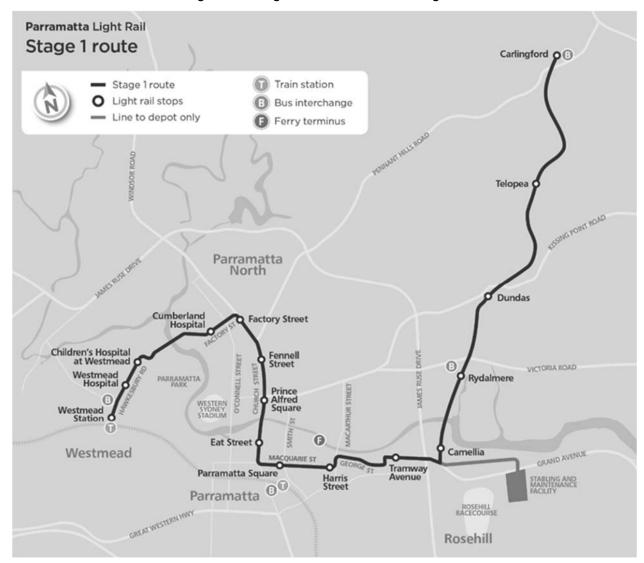


Figure 1-1 Parramatta Light Rail Stage 1 Route

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



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.

1.2.3 Stage 1 Delivery Strategy

Delivery of Stage 1 is achieved through the following five packages of work:

- Enabling Works (Package 1) Local road network improvements including O'Connell Street and George Street (off-alignment)
- **Westmead Precinct Works** (Package 2) Hawkesbury Road widening and demolition at Cumberland Hospital (east and west Campus)
- Early Works (Package 3) Remediation of the Stabling and Maintenance (SaM) Facility
- Infrastructure Works (Package 4) (the subject of this Report) Design and construction
 of civil works, public domain and light rail infrastructure up to road level/top of rail and to the
 top of the concrete slab at stops, including provision of utility services (excluding highvoltage power supply and cabling for rail systems), and decommissioning of the T6
 Carlingford Line)
- Supply, Operate and Maintain Works (Package 5) Design and construction of the light rail systems, high-voltage power supply and stops above slab level, the supply of light rail vehicles, and the design and construction of the SaM Facility, including all light rail operations, customer service and asset management.

Each package of work is to be delivered under separate contracts on behalf of the proponent Transport for NSW (TfNSW). While the packages will commence at different times under separate construction approvals, there will be periods during which the package works will overlap. The interactions between the packages are shown in **Figure 1-2**.

Parramatta Connect (the CPB Contractors and Downer EDI Works Joint Venture) has been engaged to deliver the Infrastructure Works. For construction, the Infrastructure Works are divided into portions and sub-portions, each of which is described in Table 1-1 together with significant environmental issues. The portions, light rail stops and precincts are depicted in **Figure 1-3**.

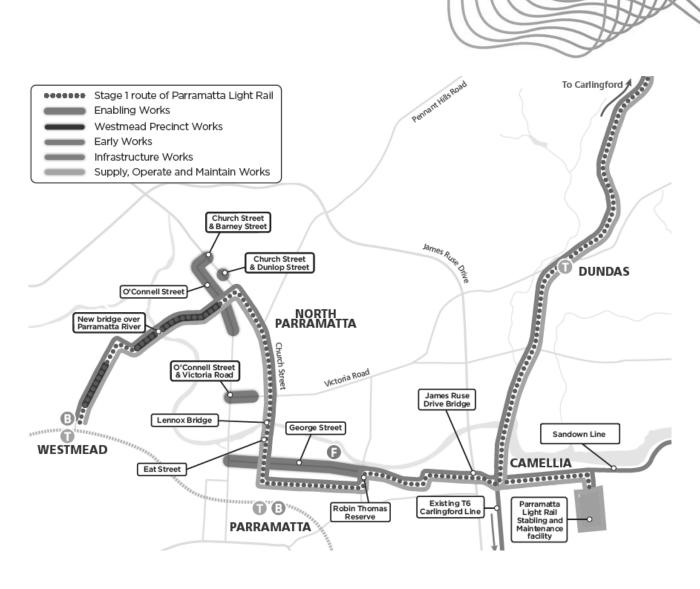


Figure 1-2 Parramatta Light Rail Stage 1 Delivery Strategy

Portion 1A	Portion 1A Portion 1B			Portion 1C Portion 1D			Portion 2			
Westmead	The state of the s			Parramatta CBD Precinct Roseh				Carlingtord Precinct		
Westmead Station Westmead Hospital Children's Hospital	Cumberland Hospital Factory Street Fennell Street	Prince Alfred Square	Parramatta Square	Harris Street	Tramway Avenue		Rydalmere Dundas	Telopea		

Figure 1-3 Infrastructure Works Portions, Precincts and Stations



1.2. Scope of this report

CPB Contactors Pty Limited have been issued an Environmental Protection Licence (EPL No. 21347) from the NSW Environment Protection Authority (EPA) for the Parramatta Light Rail Package 4 - Infrastructure Works on behalf of Parramatta Connect.

The EPL applies to the works approved under the Infrastructure Approval SSI-8285 associated with the delivery of Parramatta Light Rail Stage 1 Infrastructure Works (Package 4) under the operational control of Parramatta Connect. The EPL does not apply to other Parramatta Light Rail Stage 1 works packages.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21347 as required by Section 66 of the *Protection of the Environment Operations Act 1997 (POEO Act)* and with reference to EPA Publication Requirements for publishing pollution monitoring data (Environment Protection Authority, 2013).

Table 1-1 provides a summary of the EPL 21347 details.

Table 1-1 Licence details

Licence Details	
Number:	21347
Copy of License	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=17 7484&SYSUID=1&LICID=21347
Anniversary Date	03-January
Licensee	CPB Contractors Pty Limited
Premises	Parramatta Light Rail Stage 1 – Westmead to Carlingford,
	Package 4
	Parramatta NSW 2123
Scheduled Activity	Railway activities - railway infrastructure construction



2. Reporting Requirements

Under the *POEO Act*, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The POEO Act Section 66 requires

"66 Conditions requiring monitoring, certification or provision of information, and related offences

- (1) Monitoring The conditions of a licence may require—
 - (a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to—
 - (i) the operation or maintenance of premises or plant, and
 - (ii) discharges from premises, and
 - (iii) relevant ambient conditions prevailing on or outside premises, and
 - (iv) anything required by the conditions of the licence, and
 - (b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and
 - (c) the analysis, reporting and retention of monitoring data.
- (2) **False or misleading information** A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect."

The primary objective of the pollution monitoring reporting requirements is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them. Data for the Parramatta Light Rail Infrastructure Works is presented on a monthly sampling period.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

An upfront note will be included on the licensee's website or in this report to explain why any data may appear to be missing because there is no discharge or the level of pollutant being below the detection level of the measurement instrument.

It is possible from time to time that incorrect data may be published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading (refer to **Section 4**).



Table 2-1 provides a summary of the pollution monitoring requirements of EPL 21347.

Table 2-1 EPL 21347 Pollution Monitoring Requirements

EPL Condition	Requirement	Report Reference
M1.1	Monitor and record hourly temperature, humidity, wind velocity and rainfall	Section 3.1 Appendix A-1
L4.8	Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment	Section 3.2 Appendix A-2
M4.2	Noise monitoring of noise and vibration complaints	Section 3.2 Appendix A-2
M3.3	Noise and vibration monitoring as directed by an authorised officer of the EPA	Section 3.2 Appendix A-2
P1	Discharge of pollutants to water from nominated discharge points	Section 3.3 Appendix A-3
L2.4	Discharge from sediment basins solely as a result of rainfall measured as a result of rainfall exceeding the rainfall depth value	Section 3.3 Appendix A-3



3. Monitoring

Section 3 present a summary of the monitoring programs completed in the reporting period from 26 June 2020 to 25 July 2020.

Detailed monitoring results for each program are presented in the Appendices.

3.1. Meteorological Data

The total rainfall during the reporting period was 27.8 mm with 6 days with >1mm of rain and no days exceeding the 80th percentile (25.8mm) or the 85th percentile (33.1mm).

During the reporting period, there were 11 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 4 days where wind speeds greater than 25km/hr were forecast and on each of those days, notifications were issued to the construction team to alert them of the strong winds forecast.

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 3-2**. A comparison between long term monthly means and recorded values can be found in **Figure 3-2**.

Detailed weather observation records for July 2020 are presented in Appendix A-1.

Table 3-1 Weather Summary and Trigger Weather Events for July 2020

Weather event	Forecast	Observation
Minimum temperature	3°C	3.6°C
Maximum temperature	22°C	22.8°C
Total rainfall	46mm	27.8mm
Number of days with rain (>1mm)	3 days	6 days
>80 th percentile (25.8mm) rain events	0	0 events
>85 th percentile (33.1mm) rain events	0	0 events
Flood warning / events	0	0 events
>25km/hr wind ²	3 days	11 days
>50km/hr wind	1 day	0 days

Weather summary based on data from the 26th of June to 25th July (30 days).

Note: Red text in Observation column indicates observation greater than forecast.

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



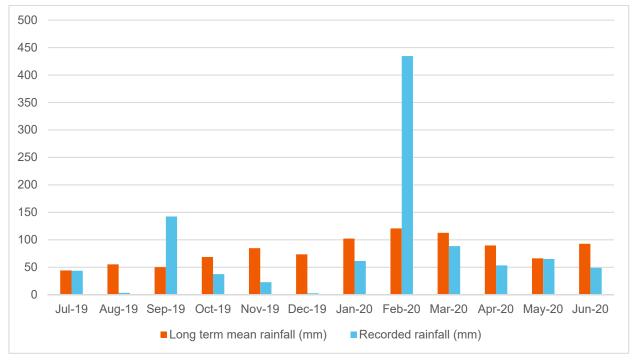


Figure 3-1 Monthly rainfall comparison

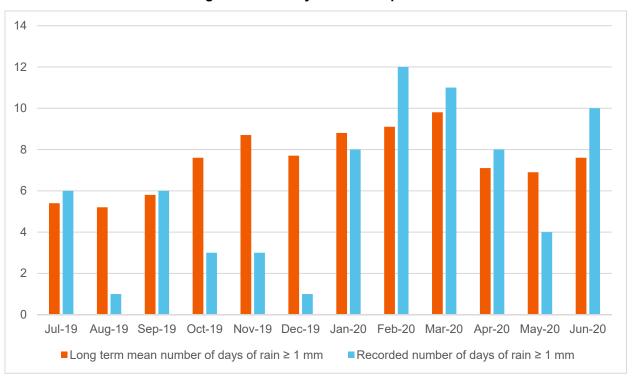


Figure 3-2 Monthly rain days comparison



3.2. Noise and Vibration

Noise monitoring is a requirement of the following conditions of EPL 21347:

- L4.8 Monitoring to validate the noise predictions for works undertaken outside of the standard construction hours as per the construction noise impact assessment
- M4.2 Noise monitoring following noise and vibration complaints
- M3.3 Noise and vibration monitoring as directed by an authorised officer of the EPA.

Table 3-3 provides a summary of noise monitoring events completed during the reporting period. Detailed noise monitoring results and comments are presented in **Appendix A-2**.

Noise monitoring for the Health Administration Corporation (HAC) is being undertaken at medical facilities in Westmead as they have been identified as sensitive receivers. Four noise monitors are being used for continuous monitoring by Renzo Tonin, which will be ongoing for twelve months. Locations of this monitoring can be found in **Table 3-4.**

Table 3-2 Summary of noise monitoring July 2020

Date	Monitoring Location	Description
30/06/2020	42 Hassel Street	Excavating
30/06/2020	200 George Street	Excavation
24/07/2020	1 Noller Parade	Saw cutting and excavating
24/07/2020	1A Noller Parade	Excavation
26/06/2020	Westmead Institute for Medical Research (Sleep Lab)	Continuous monitoring
26/06/2020	Westmead Institute for Medical Research (Brain Dynamics Centre)	Continuous monitoring
26/06/2020	Children's Medical Research Institute (Microscopy Labs)	Continuous monitoring
26/06/2020	Cumberland Hospital (Clinical psychology rooms)	Continuous monitoring

Table 3-4 HAC Noise Monitor Locations

Monitor Type	Organisation	Location		
Westmead Institute for Medical Reach	Sleep Lab			
westifiead institute for Medical Neach	Trioise Monitor	Brain Dynamics Centre		
Children's Medical Research Institute	Labs (Level 1)			
Cumberland Hospital	Noise Monitor	Clinical psychology rooms		



3.3. Discharge to water

The EPL discharge criteria apply to the sediment basins and settling containers identified and located in the document titled "Parramatta Light Rail Package 4 Discharge Point Register" and maintained on electronic file EF19/29672. The active basins and discharge points during the reporting period are summarised in **Table A-3-1**.

Table A-3-2 provides a summary of the discharges by Parramatta Connect at the current active monitoring/discharge point or utilisation area that complied with condition L2.1. There was one discharge from a location point during the reporting period.

Table A-3-3 provides a summary of discharge events that occurred solely as a result of rainfall measured at the premises exceeding the design rainfall depth value for the corresponding discharge point. There were no discharge events as a result of rainfall exceeding the designed water depth value during the reporting period.



4. Correction log

It is possible from time to time that incorrect data be get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.



Appendices

A-1 Weather Observations

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

	·							
		nps	Rain			9:00 AM		
Date	Min	Max		Temp	RH	Cld	Dir	Spd
	°C	°C	mm	°C	%	8th	km	ı/h
26/06/2020	6.4	19.5	0	11.5	70	2	NW	2
27/06/2020	8	16.6	0	11.2	80	6	NW	2
28/06/2020	6.8	15.6	1	12	79	6	WSW	2
29/06/2020	6.5	17.1	0	12.8	73	4	SSW	4
30/06/2020	5.3	18.3	0.2	9.8	97	0	NW	2
1/07/2020	4.5	21.3	0	10.4	95	4	W	2
2/07/2020	7.8	22.8	0	18	62	1	NW	13
3/07/2020	6.8	18	0	13	70	0	NNW	4
4/07/2020	6.3	16.3	0.6	9.5	87	6	SW	2
5/07/2020	6.3	18.3	0	13	70	0	SW	2
6/07/2020	5.3	18.3	0	10.4	66	0	SW	2
7/07/2020	7.5	16.5	0	11.8	75	4	NW	4
8/07/2020	8.5	15.5	3	11.5	99	7	SW	2
9/07/2020	4.5	18.2	0	8.7	99	2	W	4
10/07/2020	7.5	16.8	0	11	97	6	NW	2
11/07/2020	10.2	18.5	3.2	12.6	97	8	SW	2
12/07/2020	8.5	17.5	1.2	10.5	99	7	SW	4
13/07/2020	5.6	17.6	6	9.9	97	0	W	2
14/07/2020	9.2	16.2	11	11.4	95	8	SSW	33
15/07/2020	10.8	15.6	1.6	12.7	71	6	WSW	19
16/07/2020	8.8	16.6	0	11.8	67	6	WSW	11
17/07/2020	10.2	16.2	0	12.2	74	6	WSW	15
18/07/2020	8.2	17.2	0	13	77	3	W	2
19/07/2020	4.6	19.2	0	10.6	96	3	WNW	2
20/07/2020	6.8	18	0	13.2	51	0	SW	22
21/07/2020	3.6	17.2	0	10	75	0	WSW	4
22/07/2020	3.6	18.2	0	10.4	74	6	W	2
23/07/2020	4.2	19.4	0	10	80	0	NW	4
24/07/2020	5	18.8	0	10.2	97	0	NW	4
25/07/2020	5.8	18.2	0	9.8	99	6	W	2

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

	Max	Max Wind Gust			AM	3:00 PM		
Date	Dir	Spd	Time	Dir	Spd	Dir	Spd	
	km	km/h loc			/h	km/h		
26/06/2020	WNW	19	9:41	WNW	9	SE	9	
27/06/2020	SE	26	14:05	WNW	9	ESE	15	
28/06/2020	SSE	24	14:17	WNW	7	SSE	9	
29/06/2020	SE	20	11:54	WNW	7	SE	13	
30/06/2020	WNW	17	9:58	NW	2	ENE	2	
1/07/2020	N	20	19:17	*	Calm	N	11	
2/07/2020	*	*	*	NNW	13	NNW	15	
3/07/2020	WNW	31	12:33	NNW	7	W	13	
4/07/2020	SW	30	10:21	WNW	7	SW	11	
5/07/2020	W	26	10:50	W	7	WSW	9	
6/07/2020	WSW	17	9:58	NW	6	ESE	9	
7/07/2020	SSE	24	18:41	WNW	6	SSE	6	
8/07/2020	ESE	15	12:56	*	Calm	ESE	2	
9/07/2020	NW	15	8:56	NW	9	NNE	7	
10/07/2020	NW	17	9:54	WNW	2	NW	6	
11/07/2020	NW	15	13:24	NNW	2	W	6	
12/07/2020	WNW	26	16:07	NW	9	ESE	7	
13/07/2020	S	17	16:32	NW	7	NE	2	
14/07/2020	SW	44	15:46	SW	20	SSW	20	
15/07/2020	SSW	39	13:22	WSW	11	SSW	11	
16/07/2020	SSW	39	13:31	W	9	SSW	19	
17/07/2020	S	30	14:09	W	9	SSW	11	
18/07/2020	WNW	17	9:22	NW	9		Calm	
19/07/2020	WNW	28	18:33	*	Calm	NNW	9	
20/07/2020	SSW	33	9:39	W	13	W	9	
21/07/2020	SSW	24	11:41	W	9	SSE	9	
22/07/2020	N	20	14:13	NW	9	NNW	7	
23/07/2020	ESE	20	16:29	WNW	11	E	4	
24/07/2020	WNW	17	8:35	NW	9	N	7	
25/07/2020	E	19	14:15	NW	4	E	11	
26/06/2020	WNW	19	9:41	WNW	9	SE	9	

Notes:

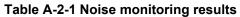
Blue text indicates a rain event greater than 1mm of rain.

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 Monitoring Results



Date	Time	Out of Hours Works Period	Construction Activity	Monitoring Location	Attended or Continuous		Analysation method	Predicted (dBA)	Specified Noise Limit	Recorded Value	Exceedance of Specified Noise Limit (dBA)	Construction noise exceedance	Comments
30/06/202 0	22:21	OOHW Period 2	Excavating	42 Hassel Street	Attended	Leq15min (dBA)	Monitor	69	39	53.1	-15.9	No	Works included: backfilling/excavating trenches and removing road plates Construction heard in the distance and included: idling of engines 52dB, squawkers, banging of bucket/road plates (75dB) and moving fence panels
30/06/202	23:18	OOHW Period 2	Excavation	200 George Street	Attended	Leq15min (dBA)	Monitor	79	39	70.8	-8.2	No	Banging of chains on the truck at 80dB Truck idling at 70dB then 67dB Rattle gun at 74dB
24/07/202 0	22:01	OOHW Period 2	Saw cutting and excavating	1 Noller Parade	Attended	Leq15min (dBA)	Monitor	95	39	48.8	-46.2	No	1 min into monitoring – car leaving parking spot 67 dB Excavator moving on tracks 51 dB Saw cutting occurred early in the monitoring
24/07/202 0	22:29	OOHW Period 2	Excavation	1A Noller Parade	Attended	Leq15min (dBA)	Monitor	95	39	69.8	-25.2	No	15t excavator loading out trench in bogey Disconnection of bucket 80dB
26/06/202 0	Continuous	monitoring	Construction works	Westmead Institute for Medical Research (Sleep Lab)	Continuous	Leq15min (dBA)	Monitor	40	*	*	*	No	No comment
26/06/202 0	Continuous	monitoring	Construction works	Children's Medical Research Institute (Microscopy Labs)	Continuous	Leq15min (dBA)	Monitor	60	*	*	*	No	No comment
26/06/202 0	Continuous	monitoring	Construction works	Cumberland Hospital (Clinical psychology rooms)	Continuous	Leq15min (dBA)	Monitor	60	*	*	*	No	No comment
26/06/202 0	Continuous	monitoring	Construction works	Children's Medical Research Institute (Microscopy Labs)	Continuous	Leq15min (dBA)	Monitor	60	*	*	*	No	No comment

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

OOHW Period 2 is defined as:

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

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

Discharge to water



Table A-3-1 Parramatta Light Rail Package 4 Discharge Point Register (electronic file EF19/29672) (Rev 6, submitted 18 June 2020)

ID	Construction Status	Easting	Northing	AMG Zone	Reference System	Description of location of discharge point	Catchment name Name of neares waters		Total catchment area of basin (hectares)	Basin size (operational) m3	Blue Book Criteria	Location description	Date added	Revision Added
A2.01	Active	315250	6256918	56	MGA	Existing stormwater pit on Church St, 40m north of the Phillip St intersection	Parramatta River Parramatta Rive	r No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A2.02	Active	315231	6256879	56	MGA	Existing stormwater pit on the northwest corner of the intersection of Phillip St and Church St	Parramatta River Parramatta Rive	r No	N/A	N/A	N/A	N/A	24/02/2020	Rev 1
A2.03	Active	315229	6256871	56	MGA	Existing stormwater pit on the southwest corner of the intersection of Phillip St & Church St	Parramatta River Parramatta Rive	r No	N/A	N/A	N/A	N/A	16/03/2020	Rev 2
A2.04	Active	315204	6256552	56	MGA	Existing stormwater pit on Macquarie Street, near United Lane	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.05	Active	315211	6256550	56	MGA	Existing stormwater pit on Macquarie Street, near United Lane	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.06	Active	315266	6256546	56	MGA	Existing stormwater pit on Horwood Place (West), near Macquarie Street	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.07	Active	315277	6256543	56	MGA	Existing stormwater pit on Horwood Place (East), near Macquarie Street	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.08	Active	315315	6256514	56	MGA	Existing stormwater pit on Macquarie Street, near Leigh Memorial Church and Civic Place	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.09	Active	315404	6256506	56	MGA	Existing stormwater pit on Macquarie Street, East of Smith Street intersection	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.10	Active	315433	6256477	56	MGA	Existing stormwater pit at the interesction of Macquarie Street and Smith Street (South West corner)	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.11	Active	315516	6256504	56	MGA	Existing stormwater pit at the north end of Barrack Lane	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.12	Active	315692	6256429	56	MGA	Existing Stormwater pit on Macquaire Street at Charles Street intersection (North-West corner)	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.13	Active	315685	6256422	56	MGA	Existing Stormwater pit on Macquaire Street at Charles Street intersection (South-West corner)	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	27/04/2020	Rev 04
A2.14	Active	316007	6256445	56	MGA	Existing stormwater pit on eastern side of Harris Street. Opposite Albion Hotel.	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	28/05/2020	Rev 05
A2.15	Active	316004	6256435	56	MGA	Existing stormwater pit on eastern side of Harris Street. Opposite Albion Hotel exit driveway.	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	28/05/2020	Rev 05
A2.15	Active	316000	6256418	56	MGA	Existing stormwater pit on eastern side of Harris Street. Opposite Albion Hotel carpark.	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	28/05/2020	Rev 05
A2.15	Active	315980	6256389	56	MGA	Existing stormwater pit on western side of Harris Street. South of Albion Hotel entry driveway.	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	28/05/2020	Rev 05
A2.15	Active	315989	6256383	56	MGA	Existing stormwater pit on eastern side of Harris Street. Opposite empty corner lot.	Parramatta River Parramatta River	No	N/A	N/A	N/A	N/A	28/05/2020	Rev 05

A2.15	Active	315975	6256365	56	MGA	Existing stormwater pit on western side of Harris St. Just north of Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. intersection with Macquarie Street.	20 Rev 05
A2.15	Active	315984	6256361	56	MGA	Existing stormwater pit on eastern side of Harris Street. Opposite Parramatta River No N/A N/A N/A N/A 28/05/20. Northern footpath of Macquarie Street.	20 Rev 05
A2.15	Active	315984	6256344	56	MGA	Existing stormwater pit on eastern side of Harris Street. In pedestrian Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. crossing of Harris Street.	20 Rev 05
A2.15	Active	315970	6256347	56	MGA	Existing stormwater pit on eastern side of Harris Street. In pedestrian Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. crossing of Harris Street.	20 Rev 05
A2.15	Active	315969	6256344	56	MGA	Existing stormwater pit on eastern side of Harris Street. Just south of Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. pedestrian crossing of Harris Street.	20 Rev 05
A2.15	Active	315948	6256282	56	MGA	Existing stormwater pit at intersection of Hassall Street and Harris Street. On northern side of Hassall Street.	20 Rev 05
A2.15	Active	315848	6256392	56	MGA	Existing stormwater pit on northern side of Macquarie Street. Just east Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. of Argus Lane.	20 Rev 05
A2.15	Active	315841	6256383	56	MGA	Existing stormwater pit on southern side of Macquarie Street. Opposite Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. Argus Lane.	20 Rev 05
A2.15	Active	315826	6256386	56	MGA	Existing stormwater pit on southern side of Macquarie Street. Opposite Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. Endeavour Energy building.	20 Rev 05
A2.15	Active	315820	6256388	56	MGA	Existing stormwater pit on southern side of Macquarie Street. Opposite Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. Endeavour Energy building.	20 Rev 05
A2.15	Active	315828	6256396	56	MGA	Existing stormwater pit on northern side of Macquarie Street. In front of Parramatta River Parramatta River No N/A N/A N/A N/A N/A 28/05/20. Endeavour Energy building.	20 Rev 05
A2.15	Active	315796	6256393	56	MGA	Existing stormwater pit on southern side of Macquarie Street. In front of Parramatta River Parramatta River No N/A N/A N/A N/A N/A 28/05/20. 187 Macquarie Street.	20 Rev 05
A2.15	Active	315773	6256398	56	MGA	Existing stormwater pit on southern side of Macquarie Street. In front of Parramatta River Parramatta River No N/A N/A N/A N/A N/A 28/05/20. 183 Macquarie Street.	20 Rev 05
A2.15	Active	315776	6256408	56	MGA	Existing stormwater pit on southern side of Macquarie Street. In front of driveway for 128-138 Macquarie Parramatta River Parramatta River No N/A N/A N/A N/A 28/05/20. Street.	20 Rev 05
A3.18	Active	317220	6256123	56	MGA	Discharges into existing stormwater Iine at Sandown Lane flowing Parramatta River Parramatta River Yes N/A N/A N/A new drainage to existing towards Parramatta River. Connection of new drainage to existing to existing stormwater	20 Rev 2
A3.19	Active	317845	6256065	56	MGA	Discharges into existing stormwater Iine at Sandown Lane flowing Parramatta River Parramatta River Yes N/A N/A N/A new drainage to existing towards Parramatta River. Connection of new drainage to existing stormwater	20 Rev 2
A3.21	Active	317837	6255954	56	MGA	Discharge into local stormwater System at Grand Avenue Discharge into Parramatta River Parramatta River Yes N/A N/A N/A existing 18/06/20. drainage	20 Rev 6
A3.3	Active	317527	6257074	56	MGA	On eastern side of rail corridor Outlet adjacent to WSU. Discharges into Parramatta River Vineyard Creek Yes N/A N/A N/A headwall for 24/02/20. Vineyard Creek.	20 Rev 2
A3.4	Active	317518	6257093	56	MGA	On western side of rail corridor Outlet adjacent to WSU. Discharges into Parramatta River Vineyard Creek Yes N/A N/A N/A headwall for 24/02/20. Vineyard Creek.	20 Rev 2

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Table A-3-2 Discharge water quality

Discharge monitoring Point ID	P1.2 Identification Number	Type of Monitoring Point	Type of Discharge Point	Date	Rainfall Event	Comments
A3.22	1	Basins and settling containers	Stormwater inlet	2/07/2020	Nill	Discharge from dewatering from deep excavation at Grand
						Avenue

Table A-3-3 Discharge occurs solely as a result of rainfall measured at the premises exceeding the design rainfall depth value

