

M7- M12 Integration Project Environment Protection Licence – Environmental Monitoring Data Report

June 2025



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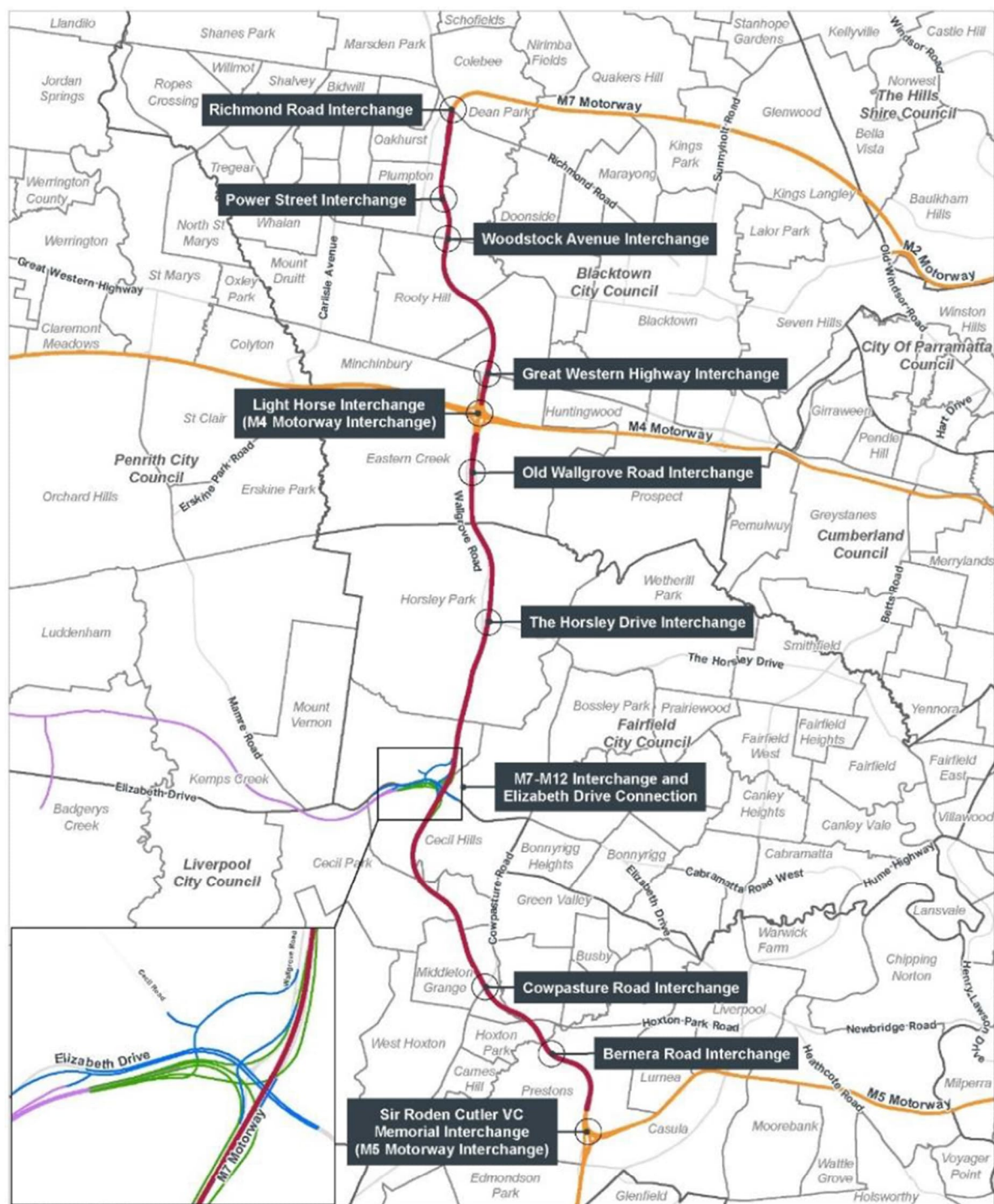
1 Project summary

The M7 Motorway (Modification 6 Widening; SSI-663-Mod-6) (M7 Widening) and the M12 East package of the M12 Motorway project (SSI 9364) will be delivered together under what is referred to as the M7-M12 Integration project (the Project) (refer to Figure 1-1) by John Holland.

The M12 Motorway extends between the M7 Motorway at Cecil Hills and The Northern Road at Luddenham, over a distance of about 16 km. It will be delivered in multiple packages including the M12 West package, M12 Central package and M12 East package (this package is part of the M7-M12 Integration project). The M12 East package involves two components of work:

- Connecting Elizabeth Drive to the M12 Motorway and the upgrade of approximately two kilometres of Elizabeth Drive from east of Duff Road to 300 metres east of the M7 Motorway
- Providing a grade separated motorway to motorway connection between the M7 Motorway and M12 Motorway.

The M7 Widening project will enable the construction and operation of an additional lane in both directions within the existing median of the Westlink M7 for approximately 26 kilometres (km). Works will occur from about 140 metres (m) south of the Kurrajong Road overhead bridge at Prestons (southern end) to the Richmond Road interchange at Oakhurst/Glendenning (northern end), excluding widening through the Westlink M7/M4 Motorway (Light Horse) Interchange.



M7-M12 INTEGRATION PROJECT
LOCATION OVERVIEW



0 2 4 km

AECOM

Legend

- M7 Widening
- M7-M12 Interchange
- Elizabeth Drive Connection
- M12 Motorway
- Existing motorway
- Interchange
- LGA boundary
- Suburb boundary

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Figure 1-1 M7-M12 Integration Project

2 Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21829) from the NSW Environment Protection Authority for the project. The licence is for road construction as defined under Schedule 1 of the *Protection of the Environment Operations Act 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the Works. The following report details environmental monitoring undertaken during the June 2025 monitoring period conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website: epa.nsw.gov.au.

3 Noise and vibration monitoring

3.1 Noise monitoring

Noise monitoring was undertaken during the reporting period in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria, monitoring was predominantly dominated by background noise sources such as local traffic and are detailed in Table 3-1.

Table 3-1 Noise monitoring data

Location Description	Monitoring date	Monitoring period	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
1111-1114 Elizabeth Drive, Cecil Park	2/06/2025	Night	TfNSW_NCA_35	Attended	LAeq (15 min)	57.1	67	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
4 Burgundy Close, Cecil Hills	5/06/2025	Day	M12_NCA16b	Attended	LAeq (15 min)	54.1	69	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
2055-2059 Elizabeth Drive	5/06/2025	Day	TfNSW_NCA_35	Attended	LAeq (15 min)	64.5	62	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
132 Station St, Rooty Hill	12/06/2025	Day	M7_NCA26	Attended	LAeq (15 min)	64.7	68	JH Works Compliant	Dominant noise source was local road and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
12. 14 Derby St, Rooty Hill	12/06/2025	Day	M7_NCA25	Attended	LAeq (15 min)	57.8	63	JH Works Compliant	Dominant noise source was local road Derby St and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
26 Toulouse St, Cecil Hills	16/06/2025	Night	M7_NCA16	Attended	LAeq (15 min)	47.6	55	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
132 Station St, Rooty Hill	16/06/2025	Day	M7_NCA26	Attended	LAeq (15 min)	64.8	50	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.
1 Nimbin Avenue, Hoxton Park NSW	18/06/2025	Day	M7_NCA08	Attended	LAeq (15 min)	53.5	51	JH Works Compliant	Dominant noise source was local roads and M7 traffic. JHG works were inaudible. JHG works compliant.
1 Pegasus Avenue, Hinchinbrook	22/06/2025	Day	M7_NCA09	Attended	LAeq (15 min)	50.3	51	JH Works Compliant	Dominant noise source was local roads and M7 traffic. JHG works were inaudible. JHG works compliant.
1 Nimbin Avenue, Hoxton Park NSW	22/06/2025	Day	M7_NCA08	Attended	LAeq (15 min)	50.2	51	JH Works Compliant	Dominant noise source was local roads and M7 traffic. JHG works were inaudible. JHG works compliant.
9 Rene place, Cecil Hills	25/06/2025	Evening	M12_NCA16b	Attended	LAeq (15 min)	45.4	48	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
405-413 Wallgrove Road, Horsley Park	25/06/2025	Night	M7_NCA20	Attended	LAeq (15 min)	63.6	54	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.

Location Description	Monitoring date	Monitoring period	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
145 Eskdale St, Minchinbury	26/06/2025	Night	M7_NCA23	Attended	LAeq (15 min)	51.8	47	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.
78 Inverell Avenue, Hinchinbrook	27/06/2025	Night	M7_NCA07	Attended	LAeq (15 min)	53.6	49	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.
1 Nimbin Avenue, Hoxton Park NSW	27/06/2025	Night	M7_NCA08	Attended	LAeq (15 min)	49.2	46	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.
132 Station Street, Rooty Hill	27/06/2025	Night	M7_NCA26	Attended	LAeq (15 min)	56.9	53	JH Works Compliant	Dominant noise source local road traffic. Works were compliant with the PNL. JHG works compliant.
2055-2059 Elizabeth Drive	30/06/2025	Day	M12_NCA_35	Attended	LAeq (15 min)	64	75	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.

Note:

1. LAeq (15min) - The A-weighted equivalent continuous (energy average) A-weighted sound pressure level over a 15-minute period.
2. dBA - Decibels using the A-weighted scale measured according to the frequency of the human ear.

3.2 Vibration monitoring

Vibration monitoring was undertaken during the reporting period in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria and are detailed in Table 3-2.

Table 3-2 Vibration monitoring data

Monitoring Location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant	Comments/ Field Observations
4 Burgundy Close, Cecil Hills	5/06/2025	Attended	0.05	0.4	Compliant	0.07	25	Compliant	Works were monitored and found to be compliant with the associated criteria
2055-2059 Elizabeth Drive	5/06/2025	Attended	0.08	0.4	Compliant	0.12	25	Compliant	Works were monitored and found to be compliant with the associated criteria
Dobroyd Drive, Elizabeth Hills	23/06/2025 – 30/06/2025	Continuous	0.23	0.4	Compliant	3.92	25	Compliant	Works were monitored and found to be compliant with the associated criteria
2055-2059 Elizabeth Drive	30/06/2025	Attended	0.13	0.4	Compliant	0.2	25	Compliant	Works were monitored and found to be compliant with the associated criteria

Note:

1. VDV – Vibration Dose Value
2. PPV – Peak Particle Velocity

4 Discharge Water Quality Monitoring

Offsite discharge occurred during June 2025 from sediment basins across the Project.

All discharges were compliant with the requirements of the Project EPL (#21829) and are outlined in Table 4-1.

Table 4-1 Sediment basin discharge monitoring data for June 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB02	02/06/2025	pH	pH	6.5-8.5	7.81	Compliant with discharge criteria.
		Turbidity	NTU	50	34.1	
		Oil and grease	Visible	Not visible	Not visible	
SB13	02/06/2025	pH	pH	6.5-8.5	7.56	Compliant with discharge criteria.
		Turbidity	NTU	50	38.6	
		Oil and grease	Visible	Not visible	Not visible	
SB06	04/06/2025	pH	pH	6.5-8.5	6.55	Compliant with discharge criteria.
		Turbidity	NTU	50	38.9	
		Oil and grease	Visible	Not visible	Not visible	
SB02	05/06/2025	pH	pH	6.5-8.5	7.40	Compliant with discharge criteria.
		Turbidity	NTU	50	42.4	
		Oil and grease	Visible	Not visible	Not visible	
SB02	17/06/2025	pH	pH	6.5-8.5	7.15	Compliant with discharge criteria.
		Turbidity	NTU	50	49.2	
		Oil and grease	Visible	Not visible	Not visible	
SB02	20/06/2025	pH	pH	6.5-8.5	7.29	Compliant with discharge criteria.
		Turbidity	NTU	50	44.8	
		Oil and grease	Visible	Not visible	Not visible	
SB13	20/06/2025	pH	pH	6.5-8.5	7.40	Compliant with discharge criteria.
		Turbidity	NTU	50	4.7	
		Oil and grease	Visible	Not visible	Not visible	
SB08	27/06/2025	pH	pH	6.5-8.5	8.05	

		Turbidity	NTU	50	34.4	Compliant with discharge criteria.
		Oil and grease	Visible	Not visible	Not visible	
SB01	27/06/2025	pH	pH	6.5-8.5	6.65	Compliant with discharge criteria.
		Turbidity	NTU	50	46.9	
		Oil and grease	Visible	Not visible	Not visible	