

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

April 2025



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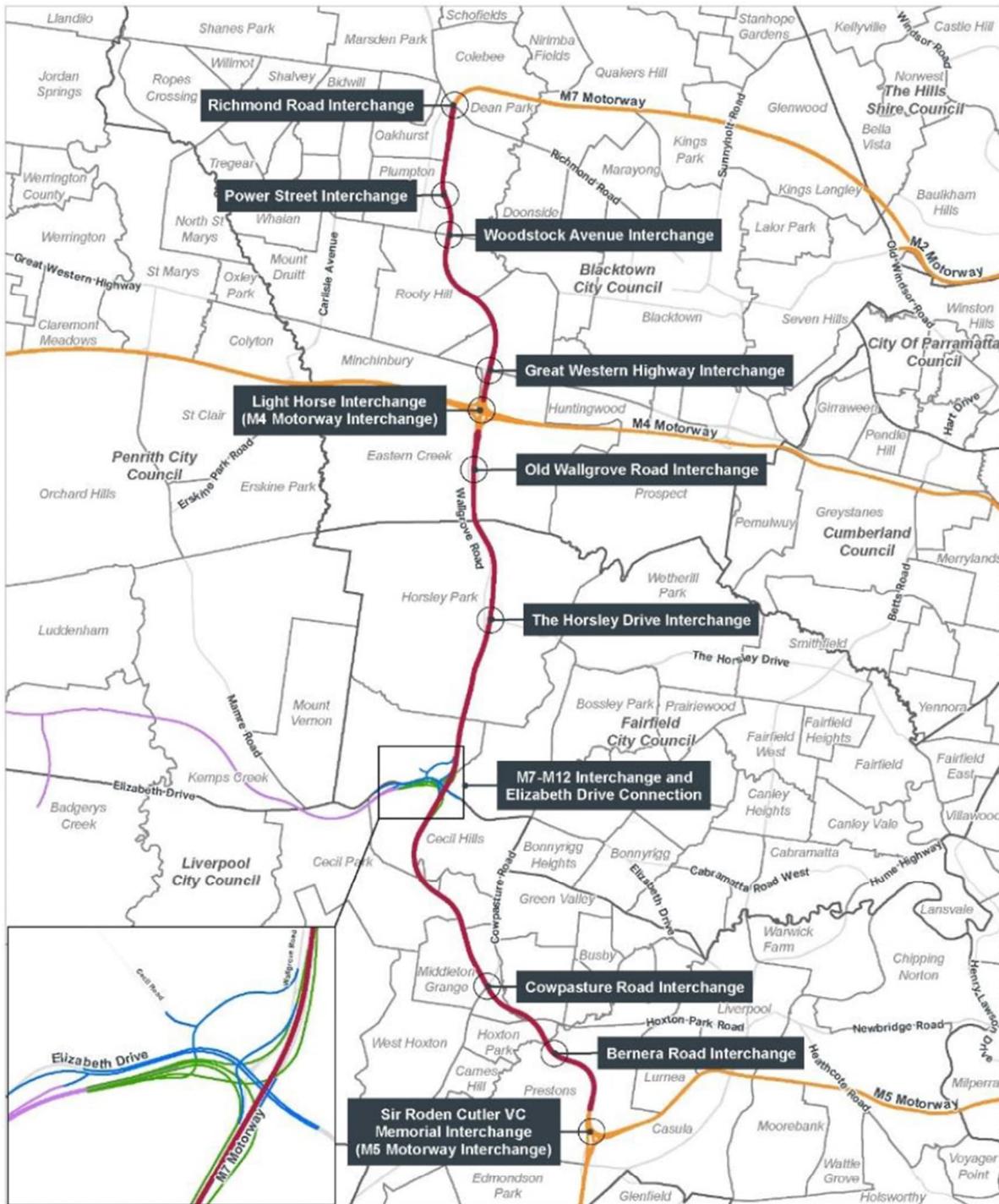
1 Project summary

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



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 April 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
32 Eber Avenue, Elizabeth Hills	02/04/2025	Night	M7_NCA14	Attended	LAeq (15 min)	43.5	51	JH Works Compliant	Dominant noise source was JHG works and traffic. JHG works were compliant with PNL. JHG M7M12 Project works are compliant.
20 Mavis Street, Rooty Hill	02/04/2025	Night	M7_NCA22	Attended	LAeq (15 min)	54.5	52	JH Works Compliant	Dominant noise source was local road traffic on M7. JHG works were compliant with PNL. JHG M7M12 Project works compliant
7 Nimbin Ave, Hoxton Park	03/04/2025	Night	M7_NCA08	Attended	LAeq (15 min)	40.9	50	JH Works Compliant	Dominant noise source was traffic on M7. JHG works were inaudible. JHG M7M12 Project works compliant.
33 Isabel Street, Cecil Hills	03/04/2025	Night	TfNSW_NCA1 6b	Attended	LAeq (15 min)	49	68	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works are compliant.
5 Dobroyd Drive, Elizabeth Hills	04/04/2025	Night	M7_NCA13	Attended	LAeq (15 min)	46.3	48	JH Works Compliant	Dominant noise source was traffic on M7. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
177 Hemsworth Avenue, Middleton Grange	04/04/2025	Night	M7_NCA11	Attended	LAeq (15 min)	51.5	60	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works are compliant.
98A Dobroyd Drive, Elizabeth Hills	04/04/2025	Night	M7_NCA14	Attended	LAeq (15 min)	47.6	57	JH Works Compliant	Dominant noise source was traffic on M7 and local roads. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
45 Ash Road, Prestons	07/04/2025	Day	M7_NCA07	Attended	LAeq (15 min)	58.6	72	JH Works Compliant	Dominant noise source was traffic on M7 and Jedda Road. JHG works were inaudible. JHG M7M12 Project works compliant.
34 Angledool Ave, Hinchinbrook	08/04/2025	Night	M7_NCA07	Attended	LAeq (15 min)	58.9	47	JH Works Compliant	Dominant noise source was traffic on M7 and Cowpasture road. JHG works were inaudible. JHG M7M12 Project 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
8A Skipton Lane, Prestons	09/04/2025	Night	M7_NCA06	Attended	LAeq (15 min)	52.5	39	JH Works Compliant	Dominant noise source was traffic. JHG works were inaudible. JHG M7M12 Project works compliant.
33 Isabel Street, Cecil Hills	09/04/2025	Night	TfNSW_NCA1 6b	Attended	LAeq (15 min)	46.2	64	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
90 Jedda Road, Prestons	10/04/2025	Day	M7_NCA07	Attended	LAeq (15 min)	58.6	72	JH Works Compliant	Dominant noise source was traffic on Jedda road and local businesses in industrial area. JHG works were inaudible. JHG M7M12 Project works compliant.
24 Rene Place, Cecil Hills	11/04/2025	Day	TfNSW_NCA1 6b	Attended	LAeq (15 min)	47.1	68	JH Works Compliant	Dominant noise source was ambient noise. JHG works were compliant with NML and PNL. JHG M7M12 Project works compliant.
2055-2059 Elizabeth Drive, Cecil Park	11/04/2025	Day	TfNSW_NCA3 5	Attended	LAeq (15 min)	66.9	62	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
33 Isabel Street, Cecil Park	15/04/2025	Night	TfNSW_NCA1 6b	Attended	LAeq (15 min)	46.3	65	JH Works Compliant	Dominant noise source was JHG works. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
609-615 Wallgrove Road, Horsley Park	15/04/2025	Day	M7_NCA18	Attended	LAeq (15 min)	72.8	73	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road. JHG works were inaudible. JHG M7M12 Project works compliant.
1111-1114 Elizabeth Drive, Cecil Park	15/04/2025	Night	TfNSW_NCA3 5	Attended	LAeq (15 min)	54.3	63	JH Works Compliant	Dominant noise source was traffic on Elizabeth drive and other local roads. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
18-32 Burley Street, Horsley Park	16/04/2025	Evening	M7_NCA18	Attended	LAeq (15 min)	52.9	51	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road and M7. JHG works were compliant with PNL. JHG M7M12 Project 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
763-783 Wallgrove Road, Horsley Park	16/04/2025	Evening	M7_NCA21	Attended	LAeq (15 min)	72	49	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road and M7. JHG works were inaudible. JHG M7M12 Project works compliant.
18-32 Burley Street, Horsley Park	16/04/2025	Night	M7_NCA18	Attended	LAeq (15 min)	42.2	51	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road and M7. JHG works were compliant with PNL. JHG M7M12 Project works compliant.
763-783 Wallgrove Road, Horsley Park	16/04/2025	Night	M7_NCA21	Attended	LAeq (15 min)	72	49	JH Works Compliant	Dominant noise source was traffic on Wallgrove Road and M7. JHG works were inaudible. JHG M7M12 Project works compliant.
48 Latina Crescent, Prestons	17/04/2025	Night	M7_NCA06	Attended	LAeq (15 min)	70.8	53	JH Works Compliant	Dominant noise source was traffic on Kurrajong Road. JHG works were inaudible. JHG M7M12 Project works compliant.
650 Wallgrove Road, Horsley Park	30/04/2025	Day	M7_NCA21	Attended	LAeq (15 min)	66.6	68	JH Works Compliant	Dominant noise source was traffic pm Chandos Road and JHG works. JHG works were compliant with PNL. JHG M7M12 Project 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
24 Rene Place, Cecil Hills	11/04/2025	Attended	0.06	0.4	Compliant	0.09	25	Compliant	Works were monitored and found to be compliant with the associated criteria
2055-2059 Elizabeth Drive, Cecil Park	11/04/2025	Attended	0.09	0.4	Compliant	0.14	25	Compliant	Works were monitored and found to be compliant with the associated criteria
49 Chilton Avenue, Oakhurst	16/04/2025	Attended	0.34	0.4	Compliant	0.52	25	Compliant	Works were monitored and found to be compliant with the associated criteria
289-293 Chandos Road, Horsley Park	30/04/2025	Attended	0.05	0.4	Compliant	0.08	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 April 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 April 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB02	01/04/2025	pH	pH	6.5-8.5	8.35	Compliant with discharge criteria.
		Turbidity	NTU	50	9	
		Oil and grease	Visible	Not visible	Not visible	
SB15	02/04/2025	pH	pH	6.5-8.5	8.2	Compliant with discharge criteria.
		Turbidity	NTU	50	49.4	
		Oil and grease	Visible	Not visible	Not visible	
SB13	02/04/2025	pH	pH	6.5-8.5	8.19	Compliant with discharge criteria.
		Turbidity	NTU	50	24.6	
		Oil and grease	Visible	Not visible	Not visible	
SB10	02/04/2025	pH	pH	6.5-8.5	8.09	Compliant with discharge criteria.
		Turbidity	NTU	50	22.7	
		Oil and grease	Visible	Not visible	Not visible	
SB03	02/04/2025	pH	pH	6.5-8.5	8.16	Compliant with discharge criteria.
		Turbidity	NTU	50	27	
		Oil and grease	Visible	Not visible	Not visible	
SB16	03/04/2025	pH	pH	6.5-8.5	8.34	Compliant with discharge criteria.
		Turbidity	NTU	50	37.5	
		Oil and grease	Visible	Not visible	Not visible	
SB02	04/04/2025	pH	pH	6.5-8.5	8.05	Compliant with discharge criteria.
		Turbidity	NTU	50	46.8	
		Oil and grease	Visible	Not visible	Not visible	

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SB08	04/04/2025	pH	pH	6.5-8.5	8.5	Compliant with discharge criteria.
		Turbidity	NTU	50	48	
		Oil and grease	Visible	Not visible	Not visible	
SB10	04/04/2025	pH	pH	6.5-8.5	8.23	Compliant with discharge criteria.
		Turbidity	NTU	50	40.3	
		Oil and grease	Visible	Not visible	Not visible	
SB02	16/04/2025	pH	pH	6.5-8.5	8.32	Compliant with discharge criteria.
		Turbidity	NTU	50	22.4	
		Oil and grease	Visible	Not visible	Not visible	
SB01	28/04/2025	pH	pH	6.5-8.5	7.34	Compliant with discharge criteria.
		Turbidity	NTU	50	48.5	
		Oil and grease	Visible	Not visible	Not visible	
SB02	28/04/2025	pH	pH	6.5-8.5	8.5	Compliant with discharge criteria.
		Turbidity	NTU	50	49.8	
		Oil and grease	Visible	Not visible	Not visible	
SB08	29/04/2025	pH	pH	6.5-8.5	8.14	Compliant with discharge criteria.
		Turbidity	NTU	50	28	
		Oil and grease	Visible	Not visible	Not visible	
SB13	29/04/2025	pH	pH	6.5-8.5	7.48	Compliant with discharge criteria.
		Turbidity	NTU	50	49.1	
		Oil and grease	Visible	Not visible	Not visible	