

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

August 2025



Document Control

Date	09 August 2025
Document No.	M7M12UDC-JHGRP-M7A-EN-RPT-000034
Title	Environment Protection Licence – Environmental Monitoring Data Report August 2025

Document History and Status

Rev	Rev Date	Description	Author	Checked	Reviewed	Approved
01	09/08/2025	For publication	M. Chandra	J. Paul	A. Major	For publication

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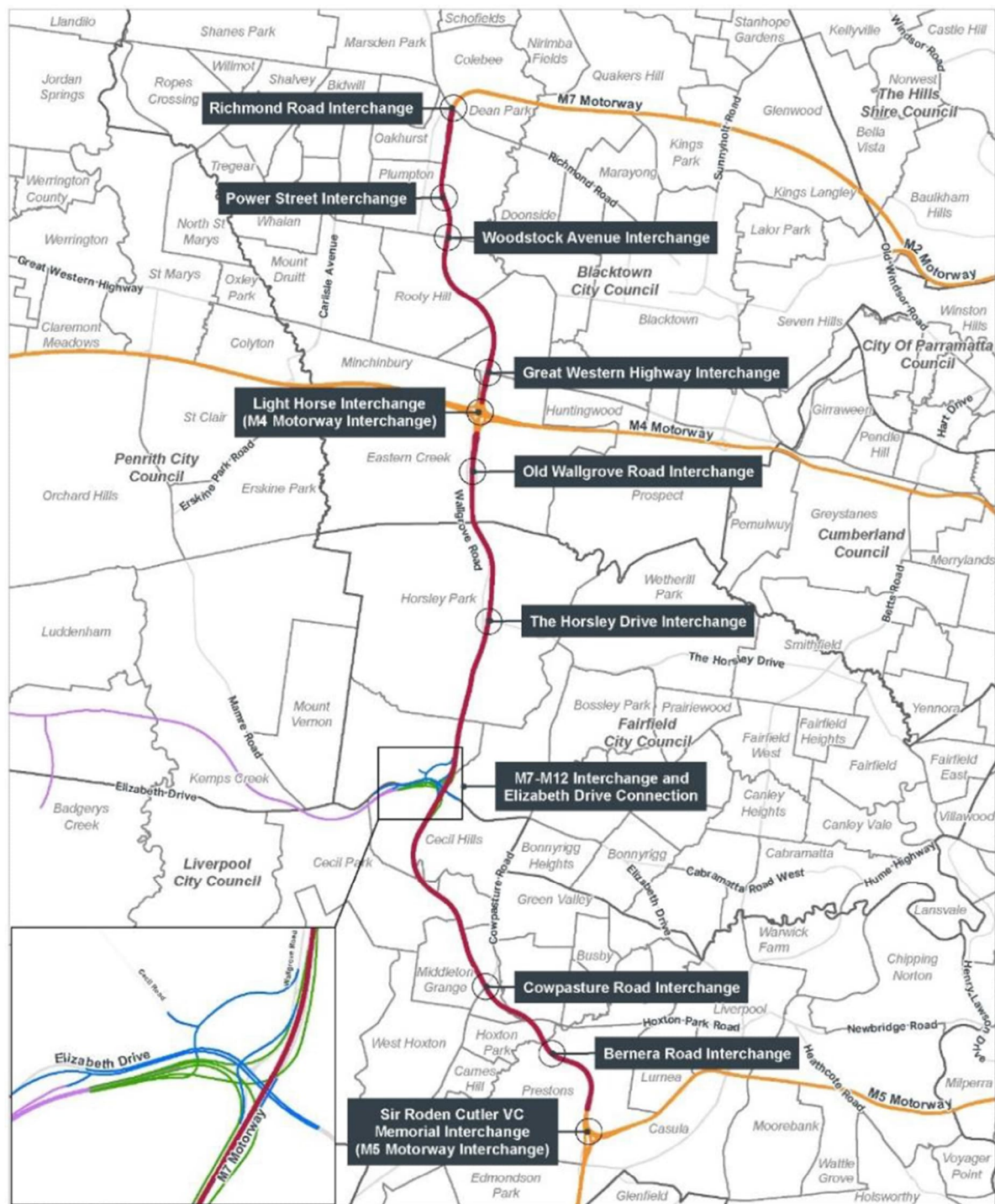
1 Project summary

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 August 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
130 Hartington St, Rooty Hill	6/08/2025	Night	M7 NCA25	Attended	L _{Aeq} (15 min)	51.8	46	JH Works Compliant	Dominant noise sources were local road traffic, train arrivals, and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
11 Mavis St, Rooty Hill	7/08/2025	Night	M7_NCA22	Attended	L _{Aeq} (15 min)	46.5	54	JH Works Compliant	Dominant noise sources were M7 traffic, train arrivals, and works. Works were compliant with the PNL. JHG works compliant.
5 Dobroyd Drive, Elizabeth Hills	12/08/2025	Night	NCA_13	Attended	L _{Aeq} (15 min)	39.5	59	JH Works Compliant	Dominant noise sources were local road traffic and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
46, 48 Calmsley Place Horsley Park	12/08/2025	Night	NCA_18	Attended	L _{Aeq} (15 min)	44.6	51	JH Works Compliant	Dominant noise sources were local road traffic and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
145 Eskdale Street, Minchinbury	12/08/2025	Night	NCA_23	Attended	L _{Aeq} (15 min)	52	49	JH Works Compliant	Dominant noise sources were local road traffic and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
24 Bird Walton Ave, Middleton Grange	25/08/2025	Night	NCA_10	Attended	L _{Aeq} (15 min)	58.8	63	JH Works Compliant	Dominant noise sources were local road traffic and M7 ambient traffic. Works were compliant with the PNL. JHG works compliant.
33 Isabel St	25/08/2025	Night	NCA_16b	Attended	L _{Aeq} (15 min)	46.2	72	JH Works Compliant	Dominant noise source was local road traffic. Works were compliant with the PNL. JHG works compliant.
15 Darice Pl, Plumpton	25/08/2025	Night	NCA_28	Attended	L _{Aeq} (15 min)	60.9	52	JH Works Compliant	Dominant noise source was local road traffic. Works were compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Drive	26/08/2025	Night	NCA35	Attended	L _{Aeq} (15 min)	66.2	53	JH Works Compliant	Dominant noise source was local road traffic. Works were compliant with the PNL. JHG works compliant.

Note:

1. L_{Aeq} (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
51 Dobroyd Drive, Elizabeth Hills	01/08/2025	Continuous	0.01	0.4	Compliant	6.67	25	Compliant	Works were monitored and found to be compliant with the associated criteria
3 Dobroyd Drive, Elizabeth Hills	04/08/2025 to 08/08/2025	Continuous	0.23	0.4	Compliant	5.64	25	Compliant	Works were monitored and found to be compliant with the associated criteria
1 Dobroyd Drive, Elizabeth Hills	11/08/2025	Continuous	0.32	0.4	Compliant	7.4	25	Compliant	Works were monitored and found to be compliant with the associated criteria
3 Dobroyd Drive, Elizabeth Hills	11/08/2025	Continuous	0.32	0.4	Compliant	7.4	25	Compliant	Works were monitored and found to be compliant with the associated criteria
7 Dobroyd Drive, Elizabeth Hills	12/08/2025	Continuous	0.31	0.4	Compliant	6.27	25	Compliant	Works were monitored and found to be compliant with the associated criteria
15 Dobroyd Drive, Elizabeth Hills	13/08/2025	Continuous	0.18	0.4	Compliant	3.37	25	Compliant	Works were monitored and found to be compliant with the associated criteria
23 Dobroyd Drive, Elizabeth Hills	14/08/2025	Continuous	0.06	0.4	Compliant	2.39	25	Compliant	Works were monitored and found to be compliant with the associated criteria
25 Dobroyd Drive, Elizabeth Hills	25/08/2025	Continuous	0.10	0.4	Compliant	2.64	25	Compliant	Works were monitored and found to be compliant with the associated criteria
31 Dobroyd Drive, Elizabeth Hills	26/08/2025	Continuous	0.21	0.4	Compliant	6.2	25	Compliant	Works were monitored and found to be compliant with the associated criteria
37 Dobroyd Drive, Elizabeth Hills	27/08/2025	Continuous	0.13	0.4	Compliant	3.78	25	Compliant	Works were monitored and found to be compliant with the associated criteria
43 Dobroyd Drive, Elizabeth Hills	28/08/2025	Continuous	0.07	0.4	Compliant	1.85	25	Compliant	Works were monitored and found to be compliant with the associated criteria

49 Dobroyd Drive, Elizabeth Hills	29/08/2025	Continuous	0.09	0.4	Compliant	2.68	25	Compliant	Works were monitored and found to be compliant with the associated criteria
120 Station Street, Rooty Hill	29/08/2025	Attended	0.07	0.4	Compliant	0.41	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 August 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 August 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB02	05/08/2025	pH	pH	6.5-8.5	7.49	Compliant with discharge criteria.
		Turbidity	NTU	50	47.6	
		Oil and grease	Visible	Not visible	Not visible	
SB13	07/08/2025	pH	pH	6.5-8.5	8.17	Compliant with discharge criteria.
		Turbidity	NTU	50	0	
		Oil and grease	Visible	Not visible	Not visible	
SB06	08/08/2025	pH	pH	6.5-8.5	8.08	Compliant with discharge criteria.
		Turbidity	NTU	50	16.6	
		Oil and grease	Visible	Not visible	Not visible	
SB07	08/08/2025	pH	pH	6.5-8.5	8.06	Compliant with discharge criteria.
		Turbidity	NTU	50	19.4	
		Oil and grease	Visible	Not visible	Not visible	
SB08	08/08/2025	pH	pH	6.5-8.5	8.44	Compliant with discharge criteria.
		Turbidity	NTU	50	41.4	
		Oil and grease	Visible	Not visible	Not visible	
SB01	08/08/2025	pH	pH	6.5-8.5	7.13	Compliant with discharge criteria.
		Turbidity	NTU	50	35.9	
		Oil and grease	Visible	Not visible	Not visible	
SB02	12/08/2025	pH	pH	6.5-8.5	7.95	Compliant with discharge criteria.
		Turbidity	NTU	50	12.1	
		Oil and grease	Visible	Not visible	Not visible	
SB08	12/08/2025	pH	pH	6.5-8.5	7.93	

		Turbidity	NTU	50	7.8	Compliant with discharge criteria.
		Oil and grease	Visible	Not visible	Not visible	
SB01	13/08/2025	pH	pH	6.5-8.5	7.47	Compliant with discharge criteria.
		Turbidity	NTU	50	45.9	
		Oil and grease	Visible	Not visible	Not visible	
SB02	14/08/2025	pH	pH	6.5-8.5	8.35	Compliant with discharge criteria.
		Turbidity	NTU	50	25.4	
		Oil and grease	Visible	Not visible	Not visible	
SB02	15/08/2025	pH	pH	6.5-8.5	8.22	Compliant with discharge criteria.
		Turbidity	NTU	50	36.1	
		Oil and grease	Visible	Not visible	Not visible	
SB01	25/08/2025	pH	pH	6.5-8.5	7.97	Compliant with discharge criteria.
		Turbidity	NTU	50	9.4	
		Oil and grease	Visible	Not visible	Not visible	
SB02	25/08/2025	pH	pH	6.5-8.5	7.93	Compliant with discharge criteria.
		Turbidity	NTU	50	8.7	
		Oil and grease	Visible	Not visible	Not visible	
SB08	25/08/2025	pH	pH	6.5-8.5	8.22	Compliant with discharge criteria.
		Turbidity	NTU	50	6.2	
		Oil and grease	Visible	Not visible	Not visible	
SB13	26/08/2025	pH	pH	6.5-8.5	7.78	Compliant with discharge criteria.
		Turbidity	NTU	50	6.2	
		Oil and grease	Visible	Not visible	Not visible	
SB06	28/08/2025	pH	pH	6.5-8.5	7.1	Compliant with discharge criteria.
		Turbidity	NTU	50	48.4	

		Oil and grease	Visible	Not visible	Not visible	
SB02	28/08/2025	pH	pH	6.5-8.5	7.09	Compliant with discharge criteria.
		Turbidity	NTU	50	49.5	
		Oil and grease	Visible	Not visible	Not visible	