

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

September 2025



Document Control

Date	08 October 2025
Document No.	M7M12UDC-JHGRP-M7A-EN-RPT-000035
Title	Environment Protection Licence – Environmental Monitoring Data Report September 2025

Document History and Status

Rev	Rev Date	Description	Author	Checked	Reviewed	Approved
01	08/10/2025	For publication	M. Chandra	J. Paul	A. Major	For publication

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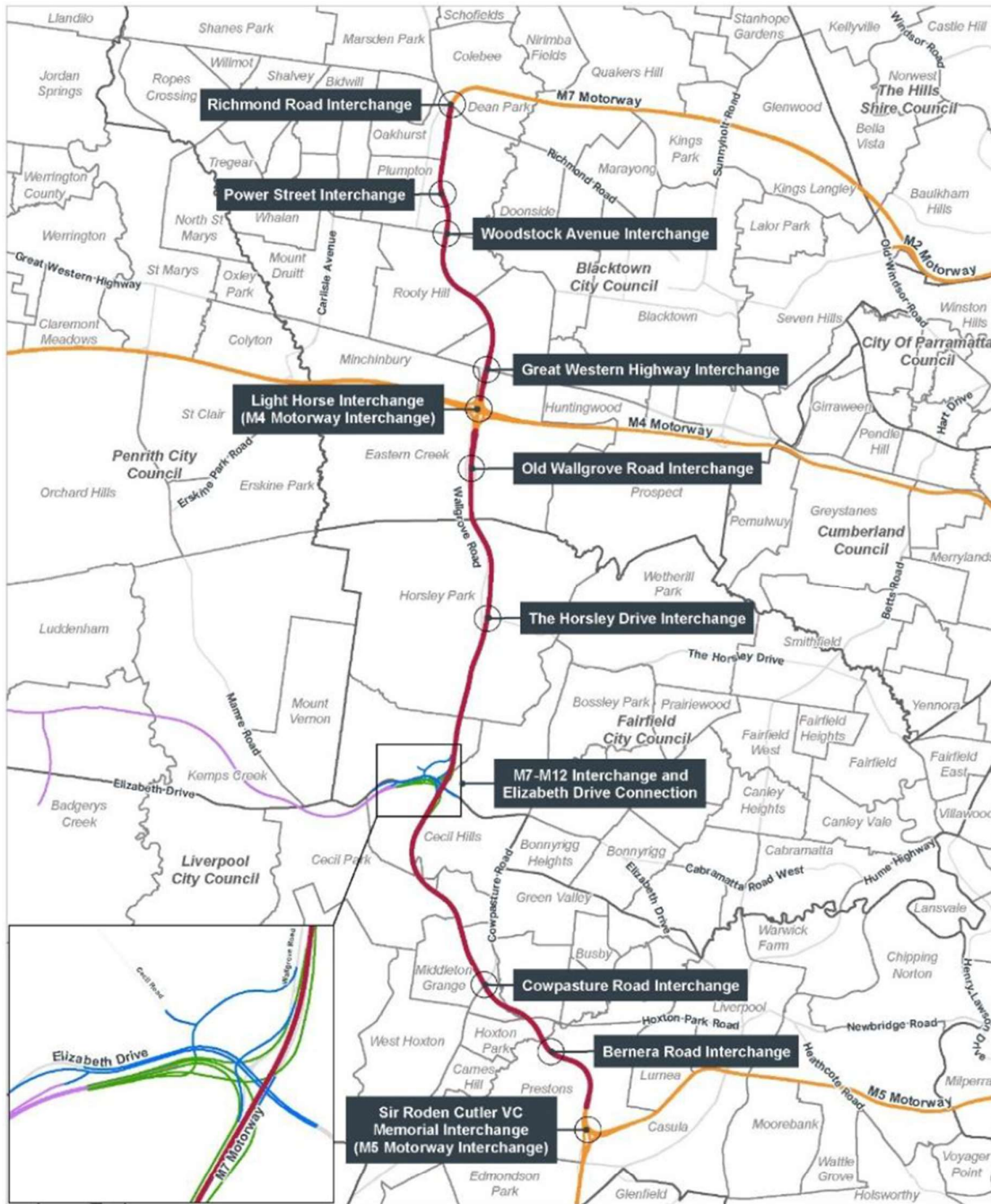
1 Project summary

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



AECOM

Legend

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

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Source: Mapbox, 2022

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 September 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
13 Nimbin Place, Hoxton Park	4/09/2025	Night	NCA 08	Attended	LAeq (15 min)	53.6	57	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
33 Isabel St, Cecil Hills	4/09/2025	Night	NCA16b	Attended	LAeq (15 min)	48.8	72	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
145 Eskdale St, Minchinbury	9/09/2025	Night	M7_NCA23	Attended	LAeq (15 min)	55.5	44	JH Works Compliant	Works were inaudible throughout the monitoring period. Local fauna calls, traffic on local roads and motorway were the dominant noise sources. JHG works compliant.
33 Isabel St, Cecil Hills	17/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	56.9	70	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
4 Burgundy Close, Cecil Hills	17/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	49.8	75	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
33 Isabel St, Cecil Hills	18/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	54.5	70	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
4 Burgundy Close, Cecil Hills	18/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	51.7	75	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
33 Isabel Street, Cecil Hills	25/09/2025	Day	NCA_16b	Attended	LAeq (15 min)	56.6	75	JH Works Compliant	Dominant noise source was traffic from Elizabeth Drive. Works were compliant with the PNL. JHG works compliant.
14 Rene Place, Cecil Hills	25/09/2025	Day	NCA_16b	Attended	LAeq (15 min)	50.7	68	JH Works Compliant	Dominant noise source was ambient noise (birds & traffic). Works inaudible during monitoring period. JHG works compliant
33 Isabel Street, Cecil Hills	25/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	50.8	71	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
3 Burgandy Place, Cecil Hills	25/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	49.1	71	JH Works Compliant	JHG works were the dominant noise source. 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
33 Isabel Street, Cecil Hills	26/09/2025	Night	NCA_16b	Attended	LAeq (15 min)	55.9	71	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
763,783 Wallgrove Road	29/09/2025	Night	21	Attended	LAeq (15 min)	68.7	60	JH Works Compliant	The dominant noise source was traffic from local roads. Works were compliant with the PNL. JHG works compliant.
763,783 Wallgrove Road, Horsley Park	29/09/2025	Night	21	Attended	LAeq (15 min)	69.7	64	JH Works Compliant	The dominant noise source was traffic from local roads. Works were compliant with the PNL. JHG works compliant.
289,293 Chandos Road, Horsley Park	29/09/2025	Night	NCA 21	Attended	LAeq (15 min)	60	64	JH Works Compliant	The dominant noise source was traffic from local roads. Works were compliant with the PNL. JHG works compliant.
609,615 Wallgrove Road, Horsley Park	30/09/2025	Night	NCA 18	Attended	LAeq (15 min)	66.1	59	JH Works Compliant	The dominant noise source was traffic from local roads. Works were inaudible during the monitoring period. JHG works compliant.
289,293 Chandos Road, Horsley Park	30/09/2025	Night	NCA 21	Attended	LAeq (15 min)	59.2	64	JH Works Compliant	JHG works were the dominant noise source. Works were compliant with the PNL. JHG works compliant.
609,615 Wallgrove Road, Horsley Park	30/09/2025	Night	NCA 18	Attended	LAeq (15 min)	68.7	60	JH Works Compliant	The dominant noise source was traffic from local roads. 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
55 Dobroyd Drive, Elizabeth Hills	01/09/2025	Continuous	0.11	0.4	Compliant	2.29	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
61 Dobroyd Drive, Elizabeth Hills	02/09/2025	Continuous	0.09	0.4	Compliant	2.33	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
71 Dobroyd Drive, Elizabeth Hills	03/09/2025	Continuous	0.07	0.4	Compliant	1.59	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
79 Dobroyd Drive, Elizabeth Hills	04/09/2025	Continuous	0.16	0.4	Compliant	4.64	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
87 Dobroyd Drive, Elizabeth Hills	05/09/2025	Continuous	0.06	0.4	Compliant	1.49	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
99 Dobroyd Drive, Elizabeth Hills	08/09/2025	Continuous	0.08	0.4	Compliant	2.47	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
99 Dobroyd Drive, Elizabeth Hills	12/09/2025	Continuous	0.04	0.4	Compliant	1.25	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
17 Dobroyd Drive, Elizabeth Hills	19/09/2025	Continuous	0.09	0.4	Compliant	2.43	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
17 Dobroyd Drive, Elizabeth Hills	22/09/2025 to 23/09/2025	Continuous	0.04	0.4	Compliant	1.28	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
33 Isabel Street, Cecil Hills	18/09/2025	Continuous	0.06	0.4	Compliant	0.09	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria

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3 Burgundy Close, Cecil Hills	18/09/2025	Continuous	0.06	0.4	Compliant	0.09	7.5	Compliant	Works were monitored and found to be compliant with the associated criteria
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Note:

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

4 Discharge Water Quality Monitoring

Offsite discharge occurred during September 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 September 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB17	01/09/2025	pH	pH	6.5-8.5	7.08	Compliant with discharge criteria.
		Turbidity	NTU	50	24.4	
		Oil and grease	Visible	Not visible	Not visible	
SB02	04/09/2025	pH	pH	6.5-8.5	7.03	Compliant with discharge criteria.
		Turbidity	NTU	50	25.6	
		Oil and grease	Visible	Not visible	Not visible	
DP-01	04/09/2025	pH	pH	6.5-8.5	7.96	Compliant with discharge criteria.
		Turbidity	NTU	50	19.8	
		Oil and grease	Visible	Not visible	Not visible	
SB08	04/09/2025	pH	pH	6.5-8.5	7.54	Compliant with discharge criteria.
		Turbidity	NTU	50	15.8	
		Oil and grease	Visible	Not visible	Not visible	
SB01	13/09/2025	pH	pH	6.5-8.5	7.92	Compliant with discharge criteria.
		Turbidity	NTU	50	46.8	
		Oil and grease	Visible	Not visible	Not visible	
SB17	15/09/2025	pH	pH	6.5-8.5	8.48	Compliant with discharge criteria.
		Turbidity	NTU	50	17.5	
		Oil and grease	Visible	Not visible	Not visible	
SB08	15/09/2025	pH	pH	6.5-8.5	8.34	Compliant with discharge criteria.
		Turbidity	NTU	50	29.1	
		Oil and grease	Visible	Not visible	Not visible	
SB02	15/09/2025	pH	pH	6.5-8.5	8.39	

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		Turbidity	NTU	50	15.4	Compliant with discharge criteria.
		Oil and grease	Visible	Not visible	Not visible	
SB06	15/09/2025	pH	pH	6.5-8.5	7.24	Compliant with discharge criteria.
		Turbidity	NTU	50	49.2	
		Oil and grease	Visible	Not visible	Not visible	
SB07	15/09/2025	pH	pH	6.5-8.5	7.2	Compliant with discharge criteria.
		Turbidity	NTU	50	14.6	
		Oil and grease	Visible	Not visible	Not visible	
SB13	17/09/2025	pH	pH	6.5-8.5	8.34	Compliant with discharge criteria.
		Turbidity	NTU	50	43.1	
		Oil and grease	Visible	Not visible	Not visible	
DP-01	18/09/2025	pH	pH	6.5-8.5	8.08	Compliant with discharge criteria.
		Turbidity	NTU	50	44.6	
		Oil and grease	Visible	Not visible	Not visible	
SB02	19/09/2025	pH	pH	6.5-8.5	7.4	Compliant with discharge criteria.
		Turbidity	NTU	50	36.5	
		Oil and grease	Visible	Not visible	Not visible	
SB18	19/09/2025	pH	pH	6.5-8.5	7.49	Compliant with discharge criteria.
		Turbidity	NTU	50	32.8	
		Oil and grease	Visible	Not visible	Not visible	
SB02	24/09/2025	pH	pH	6.5-8.5	8.47	Compliant with discharge criteria.
		Turbidity	NTU	50	46.9	
		Oil and grease	Visible	Not visible	Not visible	
SB13	29/09/2025	pH	pH	6.5-8.5	7.74	Compliant with discharge criteria.
		Turbidity	NTU	50	8.1	

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		Oil and grease	Visible	Not visible	Not visible	
SB01	27/09/2025	pH	pH	6.5-8.5	8.17	Compliant with discharge criteria.
		Turbidity	NTU	50	46.6	
		Oil and grease	Visible	Not visible	Not visible	
SB17	30/09/2025	pH	pH	6.5-8.5	7.82	Compliant with discharge criteria.
		Turbidity	NTU	50	14.6	
		Oil and grease	Visible	Not visible	Not visible	
SB08	30/09/2025	pH	pH	6.5-8.5	7.78	Compliant with discharge criteria.
		Turbidity	NTU	50	13.3	
		Oil and grease	Visible	Not visible	Not visible	
SB02	30/09/2025	pH	pH	6.5-8.5	7.78	Compliant with discharge criteria.
		Turbidity	NTU	50	10.3	
		Oil and grease	Visible	Not visible	Not visible	