

M7-M12 Integration Project

Environment Protection Licence – Environmental Monitoring Data Report

February 2025



Document Control

Date	10 March 2025
Document No.	M7M12UDC-JHGRP-M7A-EN-RPT-000022
Title	Environment Protection Licence – Environmental Monitoring Data Report February 2025

Document History and Status

Rev	Rev Date	Description	Author	Checked	Reviewed	Approved
1	10/03/2025	For publication	T. Lue	J. Paul	R. Muir	For publication

Contents

1	Project summary	2
2	Environmental Protection Licence and Reporting Requirements	4
3	Noise and vibration monitoring	5
3.1	Noise monitoring	5
3.2	Vibration monitoring	0
4	Discharge Water Quality Monitoring	2

Tables

Figure 1-1	M7-M12 Integration Project	3
Table 3-1	Noise monitoring data	6
Table 3-2	Vibration monitoring data	1
Table 4-1	Sediment basin discharge monitoring data for February 2025	3

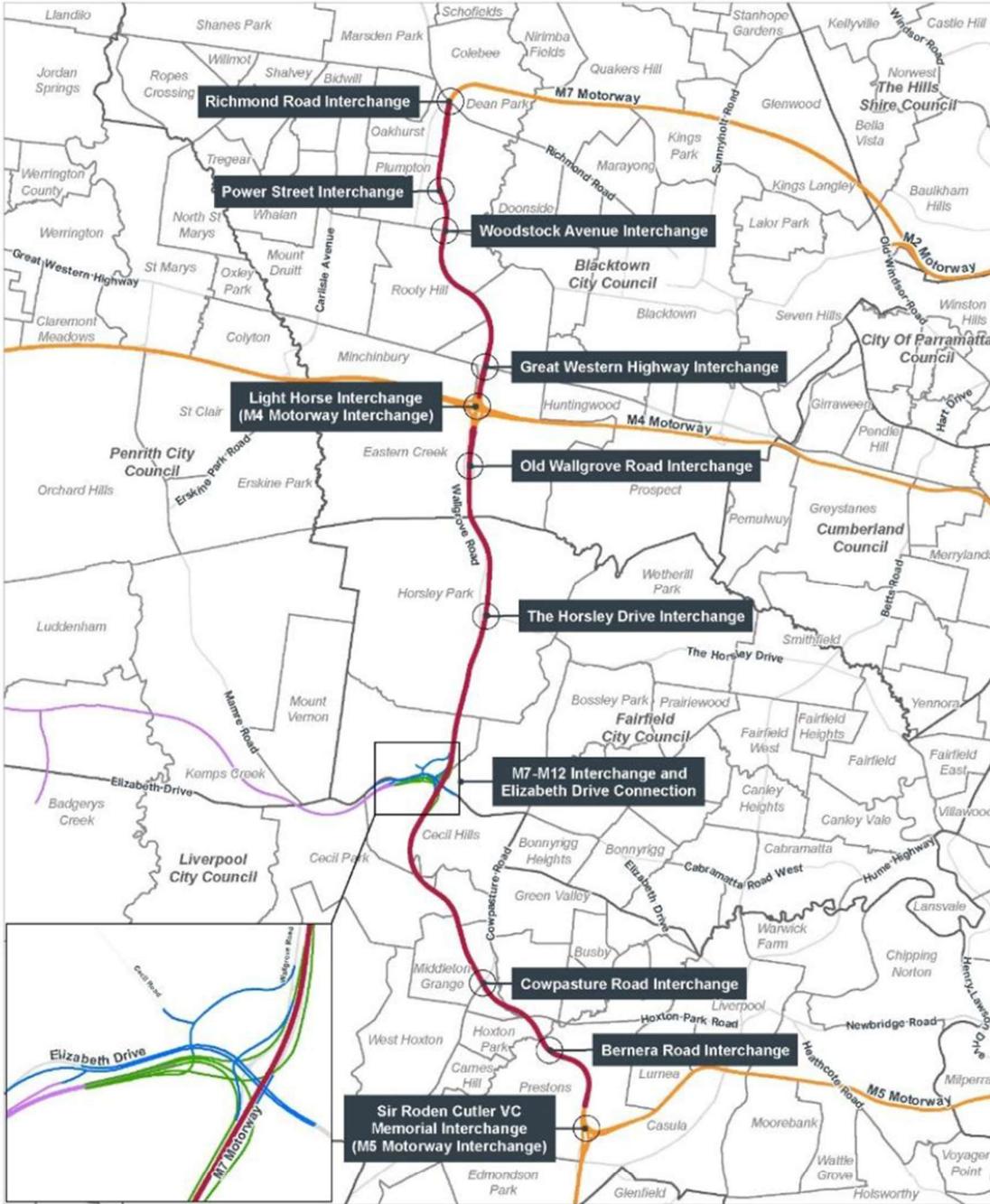
1 Project summary

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

Copyright. Copyrights in this document belong to the local government(s) and/or the project sponsor(s) and/or the client(s). All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the project sponsor(s) and/or the client(s).
The terms of Creative Commons Attribution 4.0 International license are available from <https://creativecommons.org/licenses/by/4.0/>.
No part of AECOM Australia Pty Ltd (AECOM) or the Department of Customer Service may make any representation or warranty of any kind about the accuracy, reliability, completeness, or suitability of this document for purposes other than those for which it was prepared. AECOM has prepared this document for the sole use of the Client based on the Client's description of its requirements having regard to the assumptions and other information set out in this report, including page 2.
Source: Mapbox © OpenMap 2023

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 February 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
36 Cecil Road, Cecil Park	01/02/2025	Night	TfNSW_NCA35	Attended	LAeq (15 min)	50.5	67	Compliant	Dominant noise source was JHG works. The results recorded were below the PNL. JHG works compliant.
1111-1141 Elizabeth Drive	01/02/2025	Night	TfNSW_NCA35	Attended	LAeq (15 min)	59.4	60	Compliant	Dominant noise source was JHG works. The results recorded were below the PNL. JHG works compliant.
8A Skipton Lane, Prestons	06/02/2025	Night	M7_NCA06	Attended	LAeq (15 min)	61.2	57	Compliant	Dominant noise source was traffic on the M7 and Kurrajong Road. JHG works were compliant with the PNL. JHG works compliant.
8A Skipton Lane, Prestons	13/02/2025	Night	M7_NCA06	Attended	LAeq (15 min)	53.4	64	Compliant	Dominant noise source was traffic on the M7. JHG works were compliant with the PNL. JHG works compliant.
74 Inverell Ave, Hinchinbrook	13/02/2025	Night	M7_NCA07	Attended	LAeq (15 min)	47.8	52	Compliant	Dominant noise source was JHG works. The results recorded were below the PNL. JHG works compliant.
3A Gregory St, Glendenning	18/02/2025	Night	M7_NCA31	Attended	LAeq (15 min)	47.7	58	Compliant	Dominant noise source was traffic from Gregory St and the M7 and nearby Westlink works. JHG works were compliant with the PNL. JHG works compliant.
44 Chilton Ave, Oakhurst	18/02/2025	Night	M7_NCA30	Attended	LAeq (15 min)	46.4	50	Compliant	Dominant noise source was traffic from local roads. Works were inaudible at monitoring location. JHG works compliant.
5 Burgundy Close, Cecil Hills	20/02/2025	Day	TfNSW_NCA_16b	Attended	LAeq (15 min)	55.7	69	Compliant	Dominant noise source was traffic on Elizabeth Drive. Works were inaudible at monitoring location. JHG works compliant.
2055-2059 Elizabeth Drive, Cecil Park	20/02/2025	Day	TfNSW_NCA35	Attended	LAeq (15 min)	63.3	70	Compliant	Dominant noise source was traffic on Elizabeth Drive. JHG works compliant with the PNL. JHG works compliant.
1 Dobroyd Drive, Elizabeth Hills	20/02/2025	Day	M7_NCA13	Attended	LAeq (15 min)	65	67	Compliant	Dominant noise source was traffic on the M7. Works were inaudible at monitoring location. JHG works compliant.
609-615 Wallgrove Road, Horsley Park	26/02/2025	Night	M7_NCA18	Attended	LAeq (15 min)	71.4	52	Compliant	Dominant noise source was traffic on Wallgrove Road. Works were inaudible at monitoring location. 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
609-615 Wallgrove Road, Horsley Park	20/02/2025	Night	M7_NCA18	Attended	LAeq (15 min)	73.4	52	Compliant	Dominant noise source was traffic on Wallgrove Road. Works were inaudible at monitoring location. JHG works compliant.
185 Middleton Drive, Middleton Grange	28/02/2025	Day	M7_NCA10	Attended	LAeq (15 min)	65.5	57	Compliant	Dominant noise source was traffic on the M7. JHG works compliant with the PNL. JHG works compliant.
185 Middleton Drive, Middleton Grange	28/02/2025	Day	M7_NCA10	Attended	LAeq (15 min)	68.5	70	Compliant	Dominant noise source was hydro demolition works. JHG works 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
1 Dobroyd Drive, Cecil Hills	20/02/2025	Attended	0.02	0.4	Compliant	0.06	25	Compliant	Works were monitored and found to be compliant with associated criteria
5 Burgundy Close, Cecil Hills	20/02/2025	Attended	0.11	0.4	Compliant	0.17	25	Compliant	Works were monitored and found to be compliant with associated criteria
2055-2059 Elizabeth Drive, Cecil Park	20/02/2025	Attended	0.06	0.4	Compliant	0.09	25	Compliant	Works were monitored and found to be compliant with associated criteria

Note:

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

4 Discharge Water Quality Monitoring

Offsite discharge occurred during February 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 February 2025

Location	Date	Analyte	Units	Limit	Result	Comments
SB03	03/02/2025	pH	pH	6.5-8.5	7.54	Compliant with discharge criteria.
		Turbidity	NTU	50	6.4	
		Oil and grease	Visible	Not visible	Not visible	
SB03	12/02/2025	pH	pH	6.5-8.5	7.71	Compliant with discharge criteria.
		Turbidity	NTU	50	40	
		Oil and grease	Visible	Not visible	Not visible	
SB02	12/02/2025	pH	pH	6.5-8.5	7.6	Compliant with discharge criteria.
		Turbidity	NTU	50	49	
		Oil and grease	Visible	Not visible	Not visible	
SB08	12/02/2025	pH	pH	6.5-8.5	7.93	Compliant with discharge criteria.
		Turbidity	NTU	50	6.7	
		Oil and grease	Visible	Not visible	Not visible	
SB03	12/02/2025	pH	pH	6.5-8.5	7.71	Compliant with discharge criteria.
		Turbidity	NTU	50	40.3	
		Oil and grease	Visible	Not visible	Not visible	
SB01	13/02/2025	pH	pH	6.5-8.5	7.72	Compliant with discharge criteria.
		Turbidity	NTU	50	39.9	
		Oil and grease	Visible	Not visible	Not visible	
SB13	13/02/2025	pH	pH	6.5-8.5	8.02	Compliant with discharge criteria.
		Turbidity	NTU	50	42.8	
		Oil and grease	Visible	Not visible	Not visible	
SB15	14/02/2025	pH	pH	6.5-8.5	7.43	Compliant with discharge criteria.
		Turbidity	NTU	50	40.4	

Environment Protection Licence Environment Monitoring Data

		Oil and grease	Visible	Not visible	Not visible	
SB10	14/02/2025	pH	pH	6.5-8.5	7.9	Compliant with discharge criteria.
		Turbidity	NTU	50	16.8	
		Oil and grease	Visible	Not visible	Not visible	
SB08	17/02/2025	pH	pH	6.5-8.5	7.24	Compliant with discharge criteria.
		Turbidity	NTU	50	29.8	
		Oil and grease	Visible	Not visible	Not visible	
SB02	17/02/2025	pH	pH	6.5-8.5	7.32	Compliant with discharge criteria.
		Turbidity	NTU	50	9.3	
		Oil and grease	Visible	Not visible	Not visible	
SB16	17/02/2025	pH	pH	6.5-8.5	8.13	Compliant with discharge criteria.
		Turbidity	NTU	50	26.6	
		Oil and grease	Visible	Not visible	Not visible	
SB02	18/02/2025	pH	pH	6.5-8.5	7.27	Compliant with discharge criteria.
		Turbidity	NTU	50	32.1	
		Oil and grease	Visible	Not visible	Not visible	
SB03	21/02/2025	pH	pH	6.5-8.5	8.26	Compliant with discharge criteria.
		Turbidity	NTU	50	49.5	
		Oil and grease	Visible	Not visible	Not visible	
SB02	26/02/2025	pH	pH	6.5-8.5	7.78	Compliant with discharge criteria.
		Turbidity	NTU	50	45.3	
		Oil and grease	Visible	Not visible	Not visible	
SB03	27/02/2025	pH	pH	6.5-8.5	7.69	Compliant with discharge criteria.
		Turbidity	NTU	50	37.1	
		Oil and grease	Visible	Not visible	Not visible	

Environment Protection Licence Environment Monitoring Data

