

John Holland Gamuda Joint Venture  
EPL Monthly Monitoring Report

Reporting Period: May 2024

Project	M1 Motorway Extension to Raymond Terrace – Black Hill to Tomago
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## 1. Introduction

M12RT will extend the M1 Pacific Motorway from Black Hill to the Pacific Highway at Raymond Terrace,

about 15 kilometres, bypassing Beresfield, Hexham, and Heatherbrae (refer Figure 2-1). M12RT traverses the City of Newcastle and Port Stephens Council local government areas (LGAs). The suburbs of Beresfield, Tarro, Heatherbrae, and Raymond Terrace are located to the north of the Project, with Black Hill, Hexham and Tomago located to the south of the Project.

M12RT will provide a critical link in the National Land Transport Network, particularly for the coastal Sydney to Brisbane corridor. M12RT includes the following key features:

- Black Hill: connection to the M1 Pacific Motorway
- Tarro: connection and upgrade (six lanes) to the New England Highway between John Renshaw Drive and the existing Tarro interchange at Anderson Drive
- Tomago: connection to the Pacific Highway and Old Punt Road
- Raymond Terrace: connection to the Pacific Highway.
- A 2.6-kilometre viaduct over the Hunter River floodplain including new bridge crossings over the Hunter River, the Main North Rail Line, and the New England Highway
- Bridge structures over local waterways at Tarro and Raymond Terrace, and an overpass for Masonite Road in Heatherbrae
- Connections and modifications to the adjoining local road network
- Traffic management facilities and features
- Roadside furniture including safety barriers, signage, fauna fencing and crossings, and street lighting
- Adjustment of waterways, including at Purgatory Creek at Tarro and a tributary of Viney Creek
- Environmental management measures, including surface water quality control measures
- Adjustment, protection and/or relocation of existing utilities
- Walking and cycling considerations, allowing for existing and proposed cycleway route access
- Permanent and temporary property adjustments and property access refinements
- Construction activities, including establishment and use of temporary ancillary facilities, temporary access tracks, haul roads, batching plants, temporary wharves, soil treatment and environmental controls.

The M12RT delivery strategy includes construction via two collaborative Design and Construct (D&C)

contracts:

- A southern D&C contract (known as Black Hill to Tomago) to deliver the southern 10 kilometres of M12RT, with an interface located at Tomago
- A northern D&C contract (known as Heatherbrae Bypass) to deliver the northern 5 kilometres of M12RT.

The JHGA JV will deliver the southern contract.

package works.

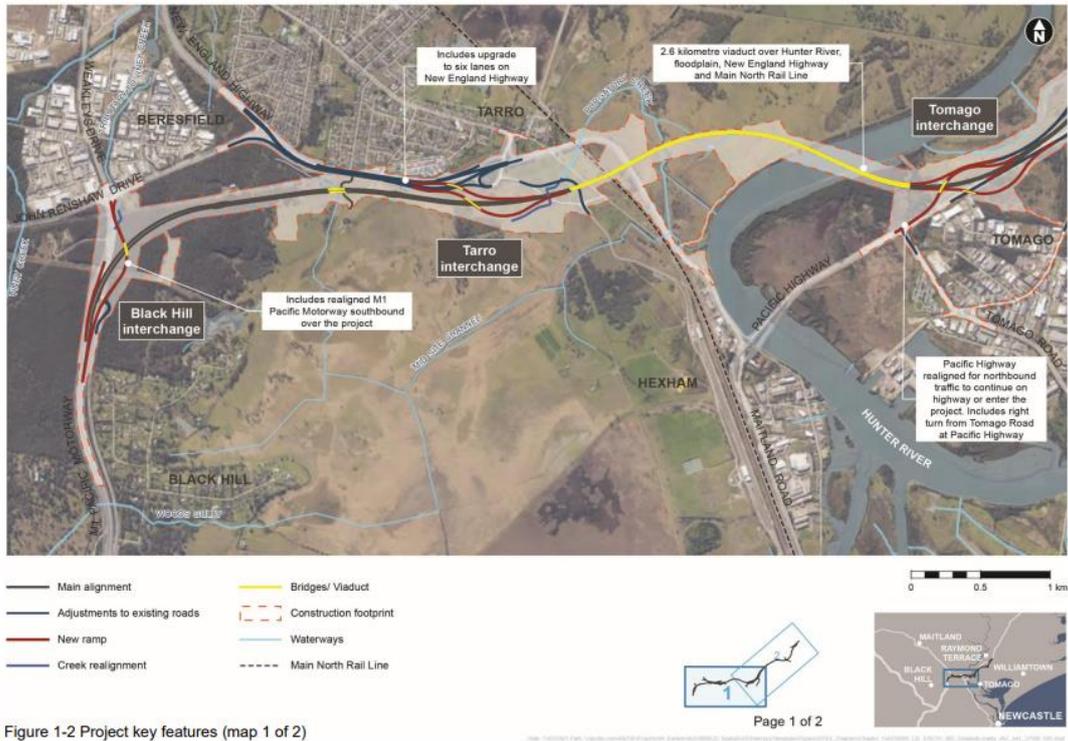


Figure 1 M12RT Project Overview – Southern Section (Source: M1 Pacific Motorway to Raymond Terrace EIS)

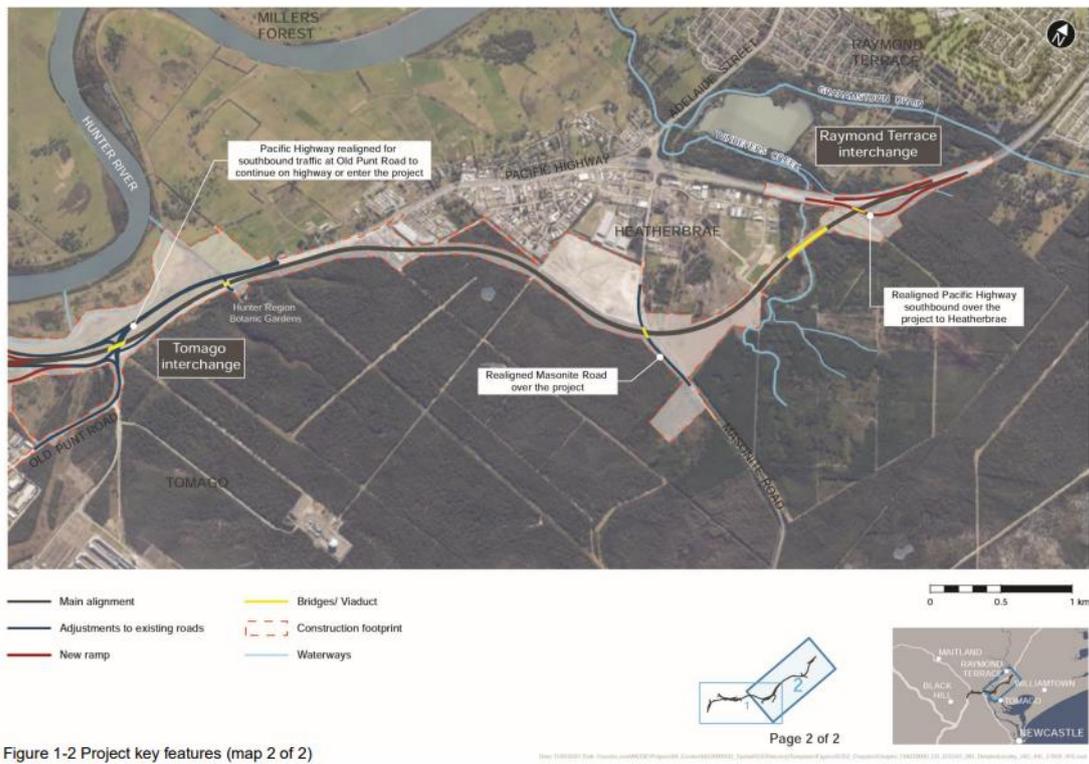


Figure 2 M12RT Project Overview – Northern Section (Source: M1 Pacific Motorway to Raymond Terrace EIS)

## 2. Environmental Protection Licence and Reporting Requirements

John Holland Gamuda JV obtained the Environment Protection Licence (EPL No. 21808) from the NSW Environment Protection Authority for the M1 Motorway Extension to Raymond Terrace – Black Hill to Tomago in September 2023. The licence is for construction works relating to 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 construction works, and specifically as they relate to:

- Water discharge limits
- Noise limits

The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website:

[ViewPOEOLicence.aspx \(nsw.gov.au\)](http://ViewPOEOLicence.aspx (nsw.gov.au))

### 3. Water Monitoring

Sampling of treated discharge water quality at RZM as per Conditions L2 and M2 was completed during May. No more monitoring of water through the treatment plant at RZM is required.

Cleanwater discharge occurred from 2 sediment basins following 289mm rain during May. The following discharge water quality monitoring results as per Condition M2.3 were recorded.

Table 1. Sediment basin water quality monitoring results

Sediment Basin Number	Discharge Point Number	Date	Water Quality Monitoring Result		
			Turbidity (NTU)	pH	Oil/Grease
3	BH2T_2	15/05/24	31.0	7.89	No
		16/05/24	35.9	7.45	No
		21/05/25	48.9	7.48	No
		23/05/24	26	7.21	No
		28/05/24	44.7	7.58	No
12	BH2T_10	14/05/24	18.4	7.09	No

### 4. Noise Monitoring

Noise monitoring was undertaken during the May 2024 reporting period. Construction noise monitoring results were above NML in most cases however due to background noise levels (heavy continuous traffic M1/New England Hwy/Pacific Hwy/Tomago Road) and inaudibility of construction noise at sensitive receivers were generally compliant during this period. Where the predicted noise level was exceeded, this was result of extraneous activities (traffic passing etc). Construction noise was in line with the predicted levels. Table 3 contains detailed noise monitoring results.

Table 2. Noise monitoring results

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA03 54 Weakleys Dr, Beresfield	22/5/24	13:54	Attended	Laeq 15 minute	76	74.6	Compliant. Constant flow of traffic along Weakleys Dr. No audible noise from site construction works.
NCA01B 14 Walter Pde Black Hill	15/5/24	15:26	Attended	Laeq 15 minute	47	58	Non-compliant - Heavy traffic flow New England Highway between receiver and Project site. No audible noise from site construction works.
NCA01A 19 Cahill Cl Black Hill	16/5/24	15:02	Attended	Laeq 15 minute	61	48.4	Compliant - Heavy traffic noise on M1. No audible noise from site construction works.
NCA02 2 Kinta Dr, Beresfield	16/5/24	15:56	Attended	Laeq 15 minute	75	70	Compliant - Heavy traffic noise along Enterprise Drive. No audible noise from site construction works.
NCA04A 62 New England Hwy Tarro	22/5/24	15:05	Attended	Laeq 15 minute	61	73.6	Non-compliant - Heavy traffic noise New England Highway. No audible noise from site construction works.
NCA04B 24 Eastern Avenue, Tarro	22/5/24	15:48	Attended	Laeq 15 minute	55	57.3	Non-compliant - Heavy traffic noise along New England Highway. Constant construction noise from excavator conducting tree clearing along New England Highway.

NCA06 Railway Pde	31/5/24	13:31	Attended	Laeq 15 minute	48	59.8	Non-compliant – Vehicle movements along Lawson Avenue, train movements along rail line and noise people passing.  No audible noise from site construction works.
NCA05B 39 Anderson Dve Tarro	22/5/24	16:13	Attended	Laeq 15 minute	51	69.4	Non-compliant – Vehicle movements along Anderson Dr.  No audible noise from site construction works.
NCA05A 5 Anderson Dve Tarro	22/5/24	15:48	Attended	Laeq 15 minute	65	57.1	Compliant – Vehicle movements along New England Highway.  No audible noise from site construction works.
NCA07 1 Woodlands Close Tarro	23/5/24	16:04	Attended	Laeq 15 minute	53	64.6	Non-compliant – Vehicle movements along New England Highway. Monitoring occurred 200m closer to construction works as to not disturb 1 Woodlands CI resident.
NCA08 213 Maitland Rd, Hexam	31/5/24	13:00	Attended	Laeq 15 minute	51	78.8	Non-compliant – Vehicle movements along New England Highway. No audible noise from site construction works.

NCA09 838 Tomago Rd, Tomago	23/4/24	11:50	Attended	Laeq 15 minute	62	72	Non-compliant - Heavy traffic noise along Tomago Rd. No audible noise from site construction works.
NCA14A 2171 Pacific Highway, Heatherbrae	31/5/24	12:28	Attended	Laeq 15 minute	64	70.2	Non-compliant – Vehicle movements along Pacific Highway. No audible noise from site construction works.