

Dominic Crinnion
Director, Infrastructure Management
Department of Planning, Housing and
Infrastructure
GPO Box 39
Sydney NSW 2001

Re: M1 Pacific Motorway extension to Raymond Terrace (SSI 7319)
Infrastructure Approval Condition E8 – Review and update of biodiversity offset
obligations

18 July 2025

Dear Dominic,

I refer to the subject project approved by the Minister for Planning on 8 November 2022 and subsequently modified on 18 November 2024.

Transport has successfully reduced clearing of native vegetation from the impacts outlined in the Environmental Impact Statement. In accordance with Condition E8, Transport are requesting approval to update the ecosystem credit requirements to reflect the construction footprint of the project. Transport are not proposing to update species credit requirements and will provide species credits for the area assessed as opposed to the reduced area impacted by the Project. Updated credit report outlining the requested biodiversity offset obligation is provided as Attachment A. The updated clearing quantities used to inform the credit report are provided in Attachment B.

Consultation has been carried out with Conservation Programs, Heritage & Regulation Group (CPHR) of the NSW Department of Climate Change, Energy, the Environment and Water. Consultation with the Cwlth Department of Climate Change, Energy, the Environment and Water was initiated via the Departments Major Projects portal on 25 May 2025. No response has been received. Consultation records are provided in Attachment C.

In accordance with Condition E6, Transport are also providing an updated clearing report (Attachment D). Minor changes were made to Table 1-1 of the report in response to feedback from CPHR. Figures in Appendix of the E6 report were also updated to include the EIS construction boundary.

Please note that the extent of clearing to some plant community types used to inform ecosystem credit requirements (Attachment B) is greater than the extent of clearing documented in the E6 clearing report. This is to allow for any potential future clearing required by the Project.

Please contact Melissa Mayfield-Smith on 0408 199 626 or by email melissa.mayfield-smith@transport.nsw.gov.au if you require further information.

Yours sincerely



Melissa Mayfield-Smith
Senior Manager Environment and Sustainability

Encl:

Attachment A: M12RT Updated Credit Report BBAM Credit Calculations

Attachment B: Updated clearing quantities

Attachment C: Consultation records

Attachment D: Updated E6 Clearing report

Attachment A: M12RT Updated Credit Report BBAM Credit Calculations

Biodiversity credit report



This report identifies the number and type of biodiversity credits required for a major project.

Date of report: 29/04/2025

Time: 8:34:22AM

Calculator version: v4.0

Major Project details

Proposal ID:	179/2020/5065MP
Proposal name:	M12RT 2025
Proposal address:	Pacific Highway M12RT Newcastle NSW 2300
Proponent name:	Transport for NSW
Proponent address:	Newcastle Newcastle NSW 2201
Proponent phone:	0427603188
Assessor name:	CHRIS THOMSON
Assessor address:	100 Christie St St Leonards NSW 2065
Assessor phone:	02 4979 2626
Assessor accreditation:	179

Summary of ecosystem credits required

Plant Community type	Area (ha)	Credits created
Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast	7.56	354.00
Broad-leaved Paperbark - Swamp Oak - Saw Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast	1.64	77.00
Forest Red Gum grassy open forest on floodplains of the lower Hunter	0.51	31.00
Grey Ironbark - Broad-leaved Mahogany - Forest Red Gum shrubby open forest on Coastal Lowlands of the Central Coast	7.74	497.00
Grey Mangrove low closed forest	2.28	155.00
Jointed Twig-rush sedgeland	1.29	88.27
Phragmites australis and Typha orientalis coastal freshwater wetlands of the Sydney Basin Bioregion	6.05	256.00
Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast	1.88	107.00
Saltmarsh Estuarine Complex	1.33	57.99
Smooth-barked Apple - Blackbutt - Old Man Banksia woodland on coastal sands of the Central and Lower North Coast	17.73	894.00
Smooth-barked Apple - Red Mahogany - Swamp Mahogany - Melaleuca sieberi heathy swamp woodland of coastal lowlands	1.33	70.22
Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest	32.93	1,891.34
Swamp Oak - Sea Rush - Baumea juncea swamp forest on coastal lowlands of the Central Coast and Lower North Coast	7.34	355.00
Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter	39.21	1,523.17
Total	128.82	6,357

Credit profiles

1. Grey Ironbark - Broad-leaved Mahogany - Forest Red Gum shrubby open forest on Coastal Lowlands of the Central Coast, (HU802)

Number of ecosystem credits created	497
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Grey Ironbark - Broad-leaved Mahogany - Forest Red Gum shrubby open forest on Coastal Lowlands of the Central Coast, (HU802) Melaleuca decora low forest of the central Hunter Valley, Sydney Basin Bioregion, (HU564) Slaty Red Gum grassy woodland on hinterland foothills of the southern North Coast, (HU619) Spotted Gum - Broad-leaved Mahogany - Grey Gum grass - shrub open forest on Coastal Lowlands of the Central Coast, (HU803) Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest, (HU804) Red Ironbark - Spotted Gum - Prickly-leaved Paperbark shrubby open forest of the Lower Hunter, (HU807) Spotted Gum - Red Ironbark - Narrow-leaved Ironbark - Grey Box shrub-grass open forest of the lower Hunter, (HU814) Spotted Gum - Narrow-leaved Ironbark-Red Ironbark shrub - grass open forest of the central and lower Hunter, (HU815) Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter, (HU816) Grey Box - Grey Gum - Rough-barked Apple - Blakely's Red Gum grassy open forest of the central Hunter, (HU822)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

2. Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest, (HU804)

Number of ecosystem credits created	1,891
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest, (HU804) Melaleuca decora low forest of the central Hunter Valley, Sydney Basin Bioregion, (HU564) Slaty Red Gum grassy woodland on hinterland foothills of the southern North Coast, (HU619) Grey Ironbark - Broad-leaved Mahogany - Forest Red Gum shrubby open forest on Coastal Lowlands of the Central Coast, (HU802) Spotted Gum - Broad-leaved Mahogany - Grey Gum grass - shrub open forest on Coastal Lowlands of the Central Coast, (HU803) Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter, (HU806) Red Ironbark - Spotted Gum - Prickly-leaved Paperbark shrubby open forest of the Lower Hunter, (HU807) Spotted Gum - Red Ironbark - Narrow-leaved Ironbark - Grey Box shrub-grass open forest of the lower Hunter, (HU814) Spotted Gum - Narrow-leaved Ironbark-Red Ironbark shrub - grass open forest of the central and lower Hunter, (HU815) Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter, (HU816) Grey Box - Grey Gum - Rough-barked Apple - Blakely's Red Gum grassy open forest of the central Hunter, (HU822)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

3. Smooth-barked Apple - Blackbutt - Old Man Banksia woodland on coastal sands of the Central and Lower North Coast, (HU860)

Number of ecosystem credits created	894
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Smooth-barked Apple - Blackbutt - Old Man Banksia woodland on coastal sands of the Central and Lower North Coast, (HU860) Smooth-barked Apple - White Stringybark - Red Mahogany - Melaleuca sieberi shrubby open forest on lowlands of the lower North Coast, (HU832) Scribbly gum - Wallum Banksia - Prickly-leaved Paperbark heathy coastal woodland on coastal lowlands, (HU851) Smooth-barked Apple - Blackbutt heathy open forest of the Tomaree Peninsula, (HU862)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

4. *Phragmites australis* and *Typha orientalis* coastal freshwater wetlands of the Sydney Basin Bioregion, (HU673)

Number of ecosystem credits created	256
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
<i>Phragmites australis</i> and <i>Typha orientalis</i> coastal freshwater wetlands of the Sydney Basin Bioregion, (HU673) <i>Cladium procerum</i> coastal freshwater wetland, (HU949) Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter, (HU950)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

5. Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter, (HU950)

Number of ecosystem credits created	1,523
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter, (HU950) Phragmites australis and Typha orientalis coastal freshwater wetlands of the Sydney Basin Bioregion, (HU673) Cladium procerum coastal freshwater wetland, (HU949)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

6. Jointed Twig-rush sedgeland, (HU956)

Number of ecosystem credits created	88
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Jointed Twig-rush sedgeland, (HU956) Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion, (HU533) Phragmites australis and Typha orientalis coastal freshwater wetlands of the Sydney Basin Bioregion, (HU673) Cladium procerum coastal freshwater wetland, (HU949) Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter, (HU950) Typha rushland, (HU951) Tall Spike Rush freshwater wetland, (HU954) Lepironia articulata sedgeland, (HU955)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

7. Forest Red Gum grassy open forest on floodplains of the lower Hunter, (HU812)

Number of ecosystem credits created

31

IBRA sub-region

Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Forest Red Gum grassy open forest on floodplains of the lower Hunter, (HU812) Coastal floodplain sedgelands, rushlands, and forblands of the North Coast, (HU532) Swamp Oak swamp forest fringing estuaries, Sydney Basin Bioregion and South East Corner Bioregion, (HU635) Parramatta red gum - Fern-leaved banksia - Melaleuca sieberi swamp woodland of the Tomaree Peninsula, (HU865) Prickly-leaved Paperbark - Flax-leaved Paperbark swamp forest on poorly drained soils of the Central Coast, (HU929) Cabbage Gum - Forest Red Gum - Flax-leaved Paperbark Floodplain Forest of the Central Coast, (HU934) Swamp Oak - Sea Rush - Baumea juncea swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU941) Swamp Oak - Prickly Paperbark - Tall Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU942) Grey Gum - Red Gum - Paperbark shrubby open forest on coastal lowlands of the Northern Sydney Basin and Lower North Coast, (HU963)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

8. Smooth-barked Apple - Red Mahogany - Swamp Mahogany - Melaleuca sieberi heathy swamp woodland of coastal lowlands, (HU863)

Number of ecosystem credits created	70
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Smooth-barked Apple - Red Mahogany - Swamp Mahogany - Melaleuca sieberi heathy swamp woodland of coastal lowlands, (HU863) Swamp Mahogany swamp forest on coastal lowlands of the NSW North Coast Bioregion and northern Sydney Basin Bioregion, (HU633) Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast, (HU930) Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast, (HU931) Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast, (HU932) Paperbarks - Woollybutt swamp forest on coastal lowlands of the Central Coast, (HU933) Melaleuca biconvexa - Swamp Mahogany - Cabbage Palm swamp forest of the Central Coast, (HU937) Flax-leaved Paperbark - Tall Sedge shrubland of the Sydney Basin, (HU940) Swamp paperbark - Baumea juncea swamp shrubland on coastal lowlands of the Central Coast and Lower North Coast, (HU944) Swamp Oak - Weeping Grass grassy riparian forest of the Hunter Valley, (HU945)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

9. Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast, (HU930)

Number of ecosystem credits created

107

IBRA sub-region

Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast, (HU930) Swamp Mahogany swamp forest on coastal lowlands of the NSW North Coast Bioregion and northern Sydney Basin Bioregion, (HU633) Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast, (HU931) Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast, (HU932) Paperbarks - Woollybutt swamp forest on coastal lowlands of the Central Coast, (HU933) Melaleuca biconvexa - Swamp Mahogany - Cabbage Palm swamp forest of the Central Coast, (HU937) Swamp paperbark - Baumea juncea swamp shrubland on coastal lowlands of the Central Coast and Lower North Coast, (HU944) Swamp Oak - Weeping Grass grassy riparian forest of the Hunter Valley, (HU945)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

10. Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast, (HU931)

Number of ecosystem credits created	354
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast, (HU931) Swamp Mahogany swamp forest on coastal lowlands of the NSW North Coast Bioregion and northern Sydney Basin Bioregion, (HU633) Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast, (HU930) Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast, (HU932) Melaleuca biconvexa - Swamp Mahogany - Cabbage Palm swamp forest of the Central Coast, (HU937) Swamp paperbark - Baumea juncea swamp shrubland on coastal lowlands of the Central Coast and Lower North Coast, (HU944) Swamp Oak - Weeping Grass grassy riparian forest of the Hunter Valley, (HU945)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

11. Broad-leaved Paperbark - Swamp Oak - Saw Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU938)

Number of ecosystem credits created

77

IBRA sub-region

Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Broad-leaved Paperbark - Swamp Oak - Saw Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU938) Swamp Mahogany swamp forest on coastal lowlands of the NSW North Coast Bioregion and northern Sydney Basin Bioregion, (HU633) Smooth-barked Apple - Red Mahogany - Swamp Mahogany - Melaleuca sieberi heathy swamp woodland of coastal lowlands, (HU863) Prickly-leaved Paperbark forest on coastal lowlands of the Central Coast and Lower North Coast, (HU930) Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast, (HU931) Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast, (HU932) Paperbarks - Woollybutt swamp forest on coastal lowlands of the Central Coast, (HU933) Swamp Mahogany - Paperbarks - Harsh Ground Fern swamp forest of the Central Coast, (HU936) Melaleuca biconvexa - Swamp Mahogany - Cabbage Palm swamp forest of the Central Coast, (HU937) Swamp Mahogany - Broad-leaved Paperbark - Swamp Water Fern - Plume Rush swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU939) Flax-leaved Paperbark - Tall Sedge shrubland of the Sydney Basin, (HU940) Swamp paperbark - Baumea juncea swamp shrubland on coastal lowlands of the Central Coast and Lower North Coast, (HU944) Swamp Oak - Weeping Grass grassy riparian forest of the Hunter Valley, (HU945)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

12. Swamp Oak - Sea Rush - Baumea juncea swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU941)

Number of ecosystem credits created	355
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Swamp Oak - Sea Rush - Baumea juncea swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU941) Coastal floodplain sedgelands, rushlands, and forblands of the North Coast, (HU532) Swamp Oak swamp forest fringing estuaries, Sydney Basin Bioregion and South East Corner Bioregion, (HU635) Parramatta red gum - Fern-leaved banksia - Melaleuca sieberi swamp woodland of the Tomaree Peninsula, (HU865) Cabbage Gum - Forest Red Gum - Flax-leaved Paperbark Floodplain Forest of the Central Coast, (HU934) Swamp Oak - Prickly Paperbark - Tall Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast, (HU942)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

13. Saltmarsh Estuarine Complex, (HU960)

Number of ecosystem credits created	58
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Saltmarsh Estuarine Complex, (HU960) Saltmarsh in estuaries of the Sydney Basin Bioregion and South East Corner Bioregion, (HU606)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

14. Grey Mangrove low closed forest, (HU961)

Number of ecosystem credits created	155
IBRA sub-region	Hunter

Offset options - Plant Community types	Offset options - IBRA sub-regions
Grey Mangrove low closed forest, (HU961) Mangrove Forests in estuaries of the Sydney Basin Bioregion and South East Corner Bioregion, (HU563)	Hunter and any IBRA subregion that adjoins the IBRA subregion in which the development occurs

Summary of species credits required

Common name	Scientific name	Extent of impact Ha or individuals	Number of species credits created
Australasian Bittern	Botaurus poiciloptilus	43.74	569
Black Bittern	Ixobrychus flavicollis	51.74	673
Eucalyptus parramattensis subsp. decadens	Eucalyptus parramattensis subsp. decadens	34.00	476
Koala	Phascolarctos cinereus	89.10	2,317
Netted Bottle Brush	Callistemon linearifolius	264.00	3,696
Tall Knotweed	Persicaria elatior	3.00	39
Wallum Froglet	Crinia tinnula	3.10	40
Sand Doubletail	Diuris arenaria	206.00	15,862

Attachment B: Updated clearing quantities

Plant Community type	Condition	Response To Subs Approved Clearing Quantities		Updated clearing quantities	
		Area by condition (ha)	Total area by PCT (ha)	Area by condition (ha)	Total area by PCT (ha)
PCT1590 (HU804) Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest	Good	24.68	40.93	20.72	32.93
	Moderate	8.04		7.61	
	Regenerating	8.21		4.6	
PCT1588 (HU802) Grey Ironbark - Broad-leaved Mahogany - Forest Red Gum shrubby open forest on Coastal Lowlands of the Central Coast	Moderate	6.92	7.74	6.92	7.74
	Regenerating	0.82		0.82	
PCT1646 (HU860) Smooth-barked Apple - Blackbutt - Old Man Banksia woodland on coastal sands of the Central and Lower North Coast	Good	20.8	27.73	14.57	17.73
	Poor	6.93		3.16	
PCT1649 (HU863) Smooth-barked Apple - Red Mahogany - Swamp Mahogany - Melaleuca sieberi healthy swamp woodlands of coastal lowlands	Good	1.33	1.33	1.33	1.33
PCT1598 (HU812) Forest Red Gum grassy open forest on floodplains of the lower Hunter	Moderate	0.51	0.51	0.51	0.51
PCT1716 (HU930) Prickly-leaved Paperbark Forest on coastal lowlands of the Central Coast and Lower North Coast	Good	1.88	1.88	1.88	1.88
PCT1717 (HU931) Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast	Good	3.9	10.56	3.9	7.56
	Poor	6.66		3.66	
PCT1724 (HU938) Broad-leaved Paperbark - Swamp Oak - Saw Sedge swamp forest on coastal lowlands of the Central Coast and Lower North Coast	Good	1.64	1.64	1.64	1.64
PCT1736 (HU950) Water Couch - Tall Spike Rush freshwater wetland of the Central Coast and lower Hunter	Good	33.29	59.21	21.22	39.21
	Moderate	25.92		17.99	
PCT1742 (HU956) Jointed Twig-rush sedgeland	Good	1.79	1.79	1.29	1.29
PCT1071 (HU673) Phragmites australis and Typha orientalis coastal freshwater wetlands of the Sydney Basin Bioregion	Good	8.05	8.05	6.05	6.05
PCT1727 (HU941) Swamp Oak - Sea Rush - Baumea juncea swamp forest on coastal lowlands of the Central Coast and Lower North Coast	Moderate	8.84	8.84	7.34	7.34

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