

CDM SMITH AUSTRALIA

1/30 Wangaratta Street
Richmond VIC 3121
australia@cdmsmith.com

Review of Groundwater Sustainable Yield: Unconfined and Semi-confined Aquifers

APPENDICES PART 3 DD to LL | 11 August 2025

Appendices

PREPARED FOR:

Department of Energy, Environment
and Climate Action

Melbourne, VIC

**CDM
Smith**
listen. think. deliver.

Appendix DD Wetland GDEs by GMU	3
Appendix EE Synthesis information by GMU - Wetland GDEs	30
Appendix FF Summary of change in groundwater elevation for GMUs - Wetland GDEs	61
Appendix GG Use-drawdown relationships for Wetland GDEs.....	70
Appendix HH Terrestrial GDEs by GMU	73
Appendix II Synthesis information by GMU - Terrestrial GDEs.....	120
Appendix JJ Summary of change in groundwater elevation for GMUs - Terrestrial GDEs	169
Appendix KK Use-drawdown relationships for Terrestrial GDEs	179
Appendix LL Waterway GDEs and stream gauges by GMU	182

The image features a scenic view of a river or stream flowing through a wooded area. The water is calm, reflecting the surrounding trees and the clear sky. On the right bank, a large, mature tree with a thick trunk and dense foliage stands prominently. The background shows a line of trees under a bright, clear sky. A large, semi-transparent blue rectangle is overlaid on the left side of the image, containing the text 'Appendix DD' and 'Wetland GDEs by GMU' in white, bold font.

Appendix DD
Wetland GDEs by GMU

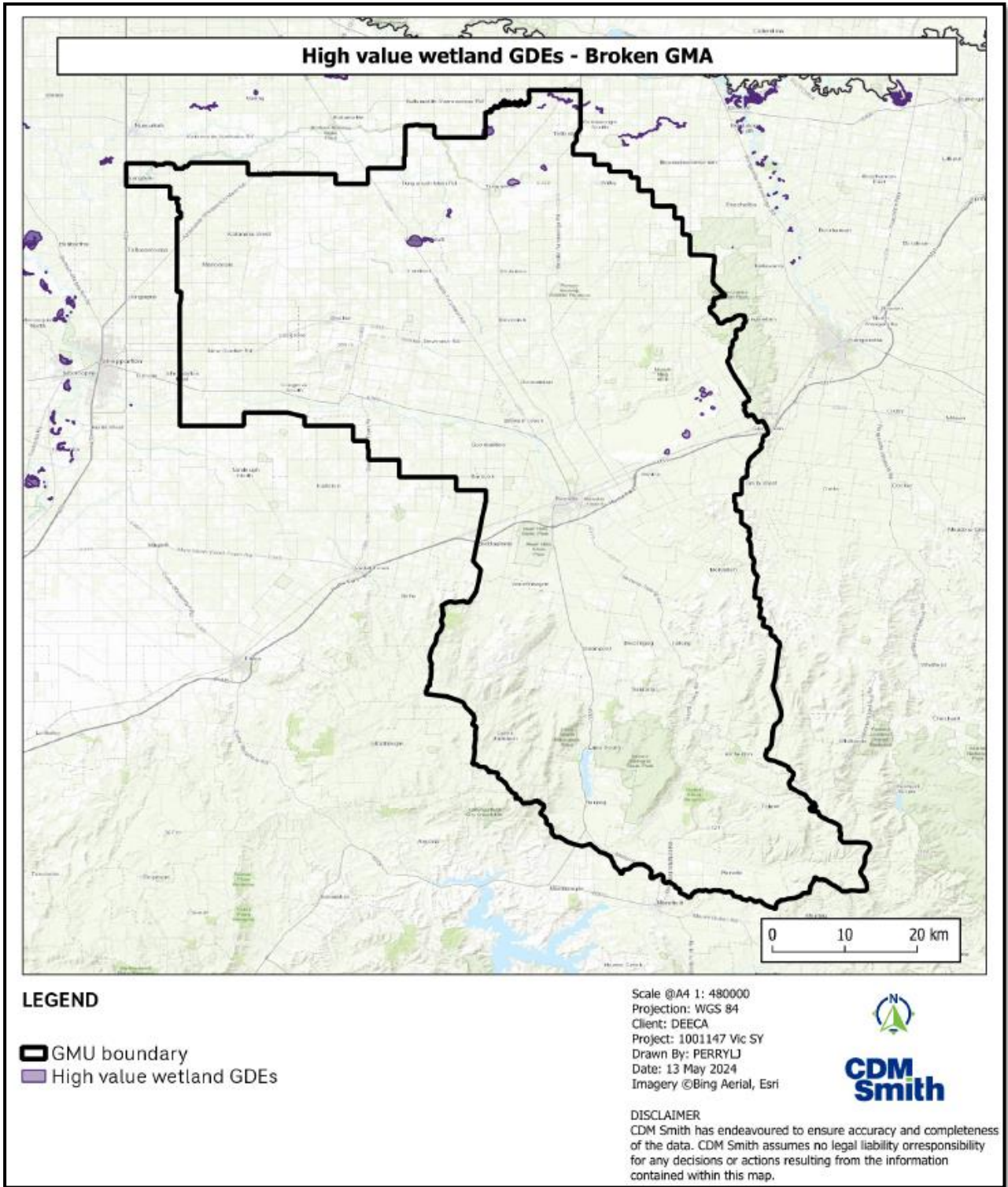


Figure DD-1 Wetland GDEs mapped within the Broken GMA

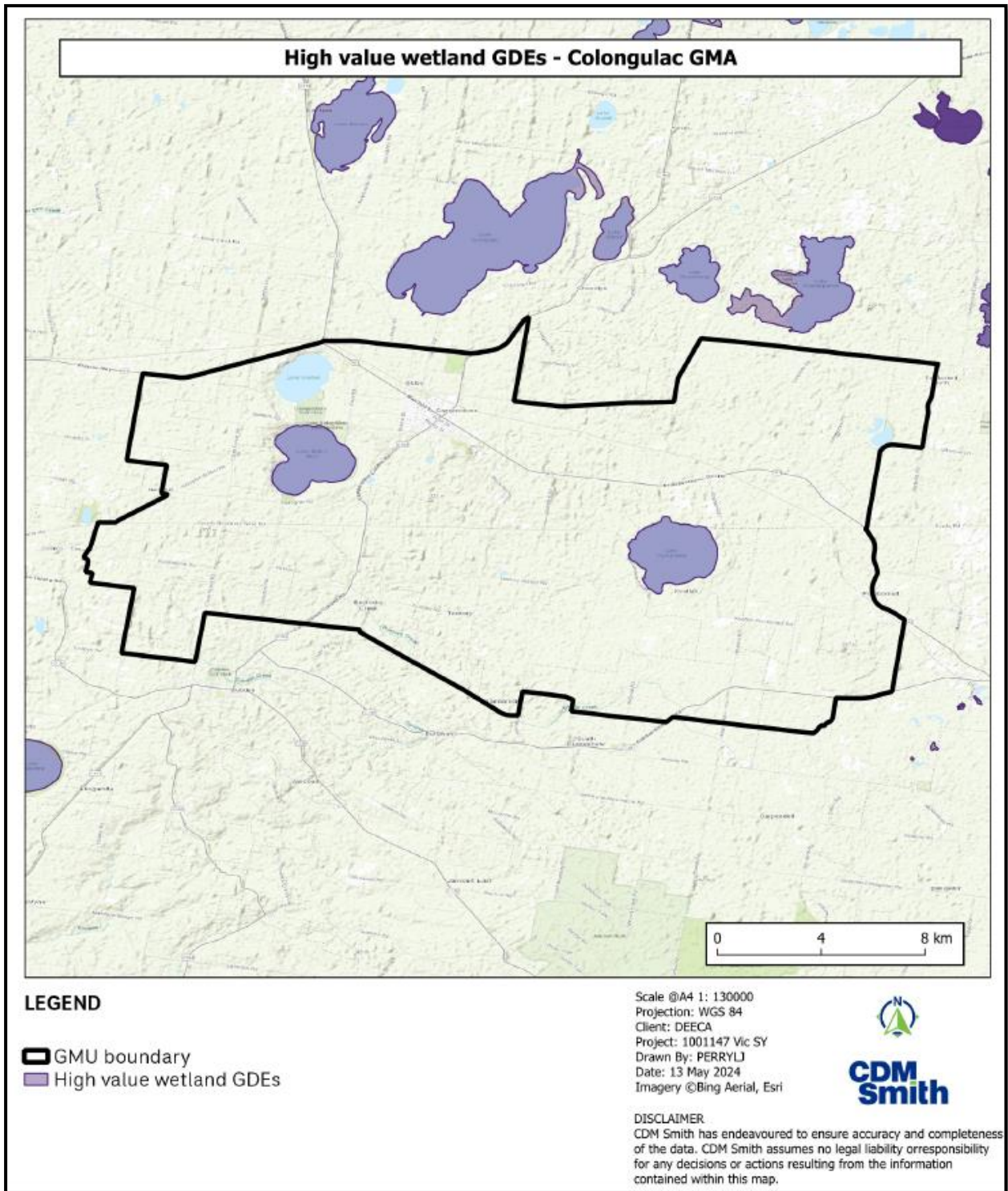


Figure DD-2 Wetland GDEs mapped within the Colongulac GMA

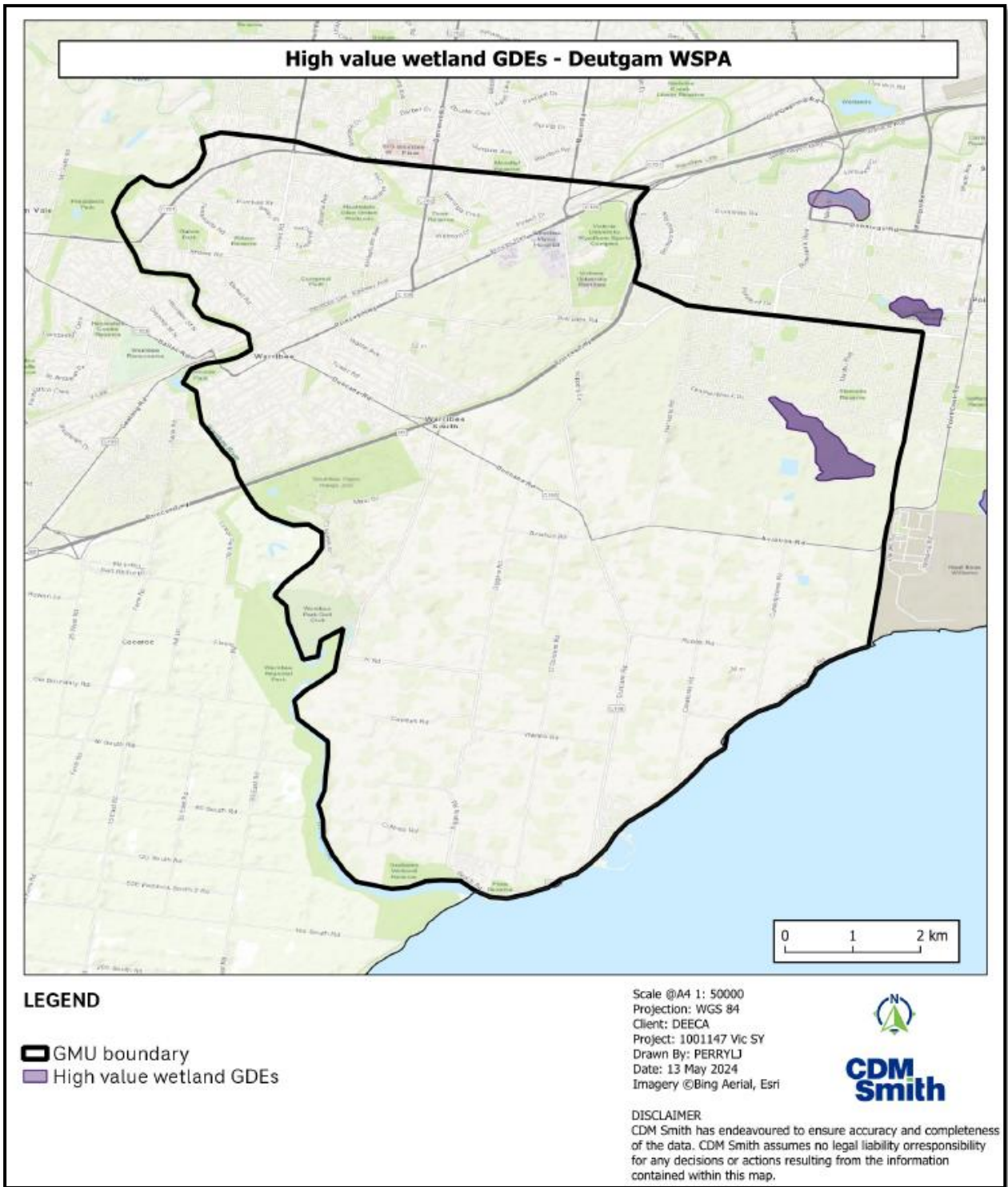


Figure DD-3 Wetland GDEs mapped within the Deutgam WSPA

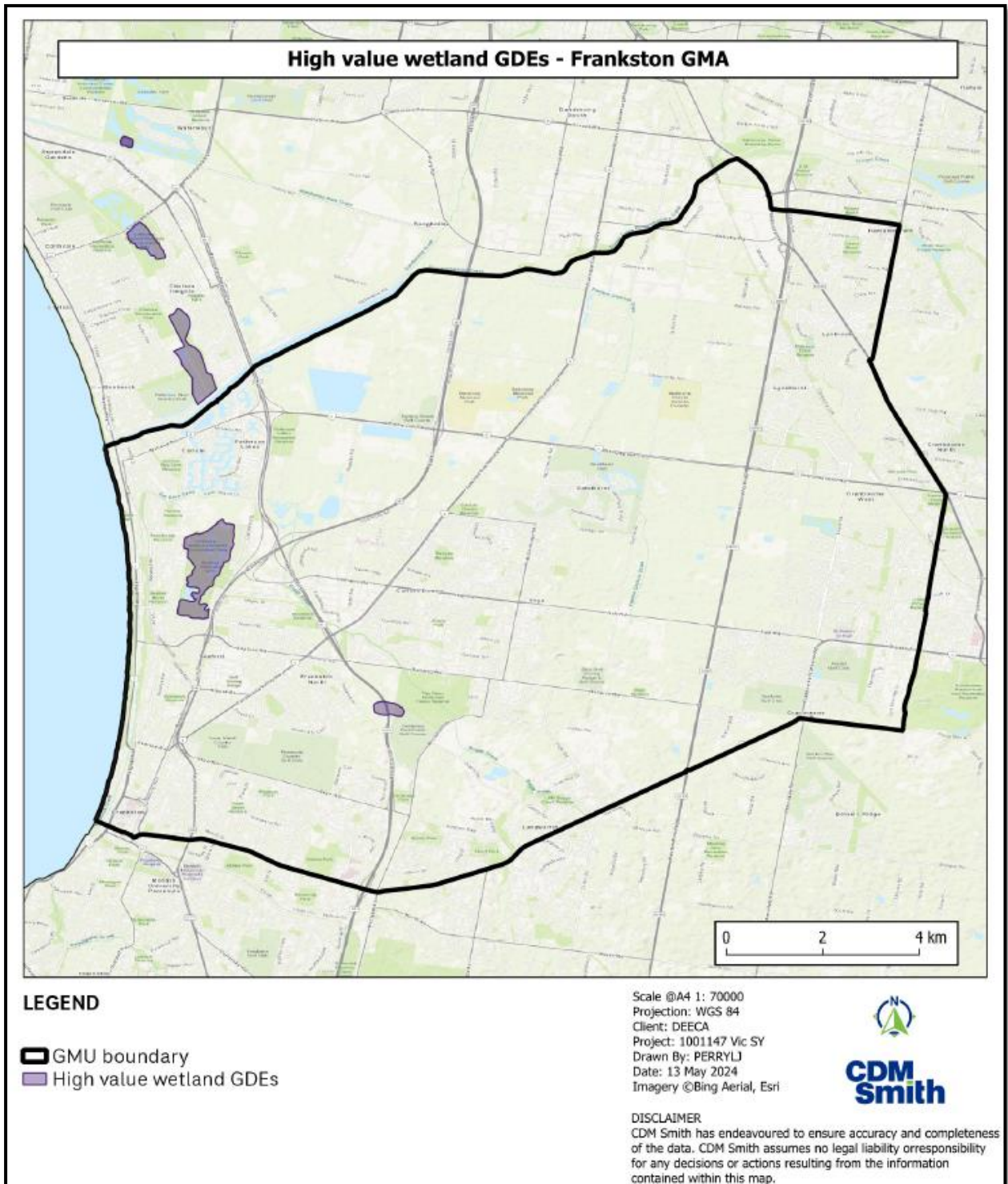


Figure DD-4 Wetland GDEs mapped within the Frankston GMA

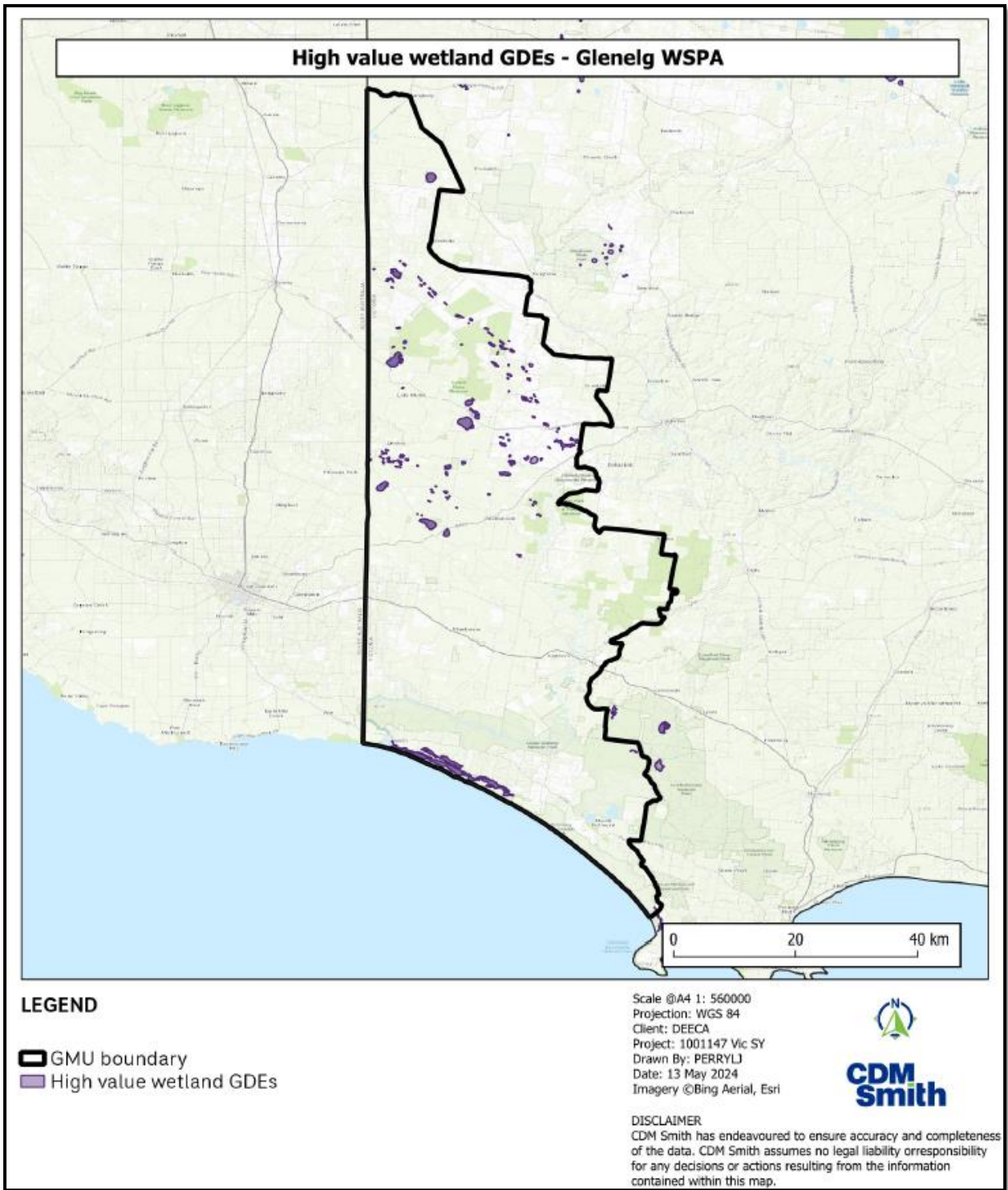


Figure DD-5 Wetland GDEs mapped within the Glenelg WSPA

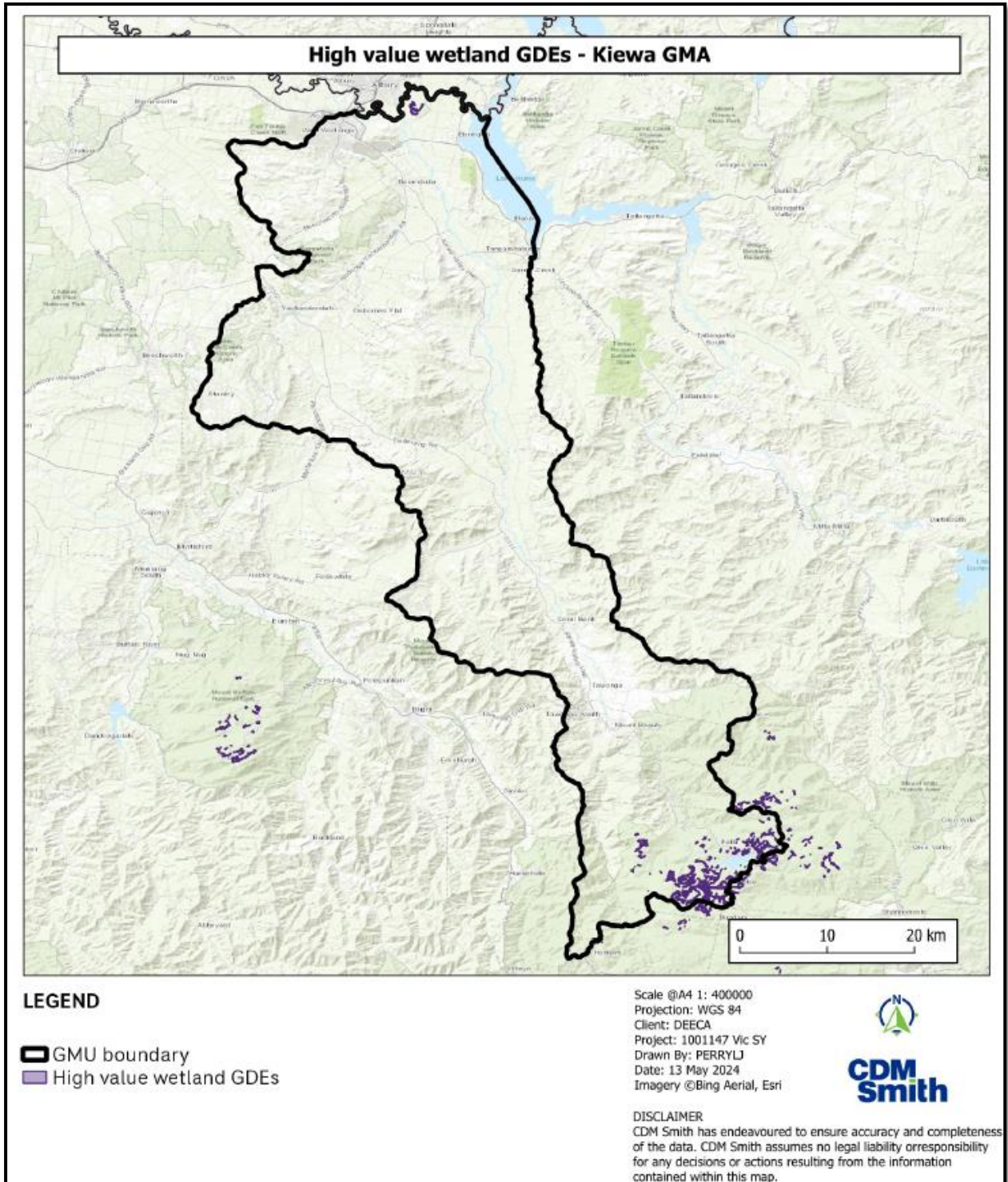


Figure DD-6 Wetland GDEs mapped within the Kiewa GMA

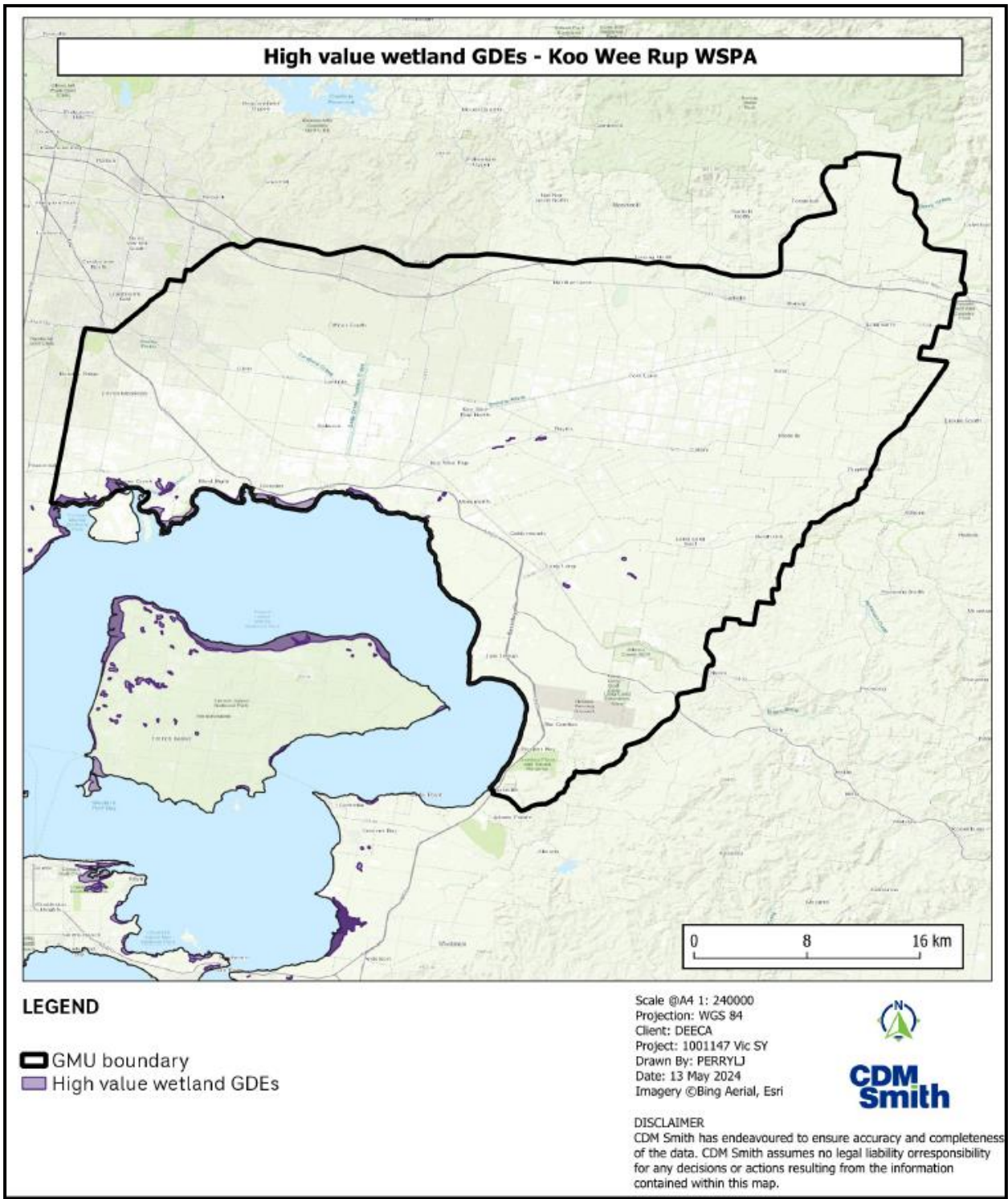


Figure DD-7 Wetland GDEs mapped within the Koo Wee Rup WSPA

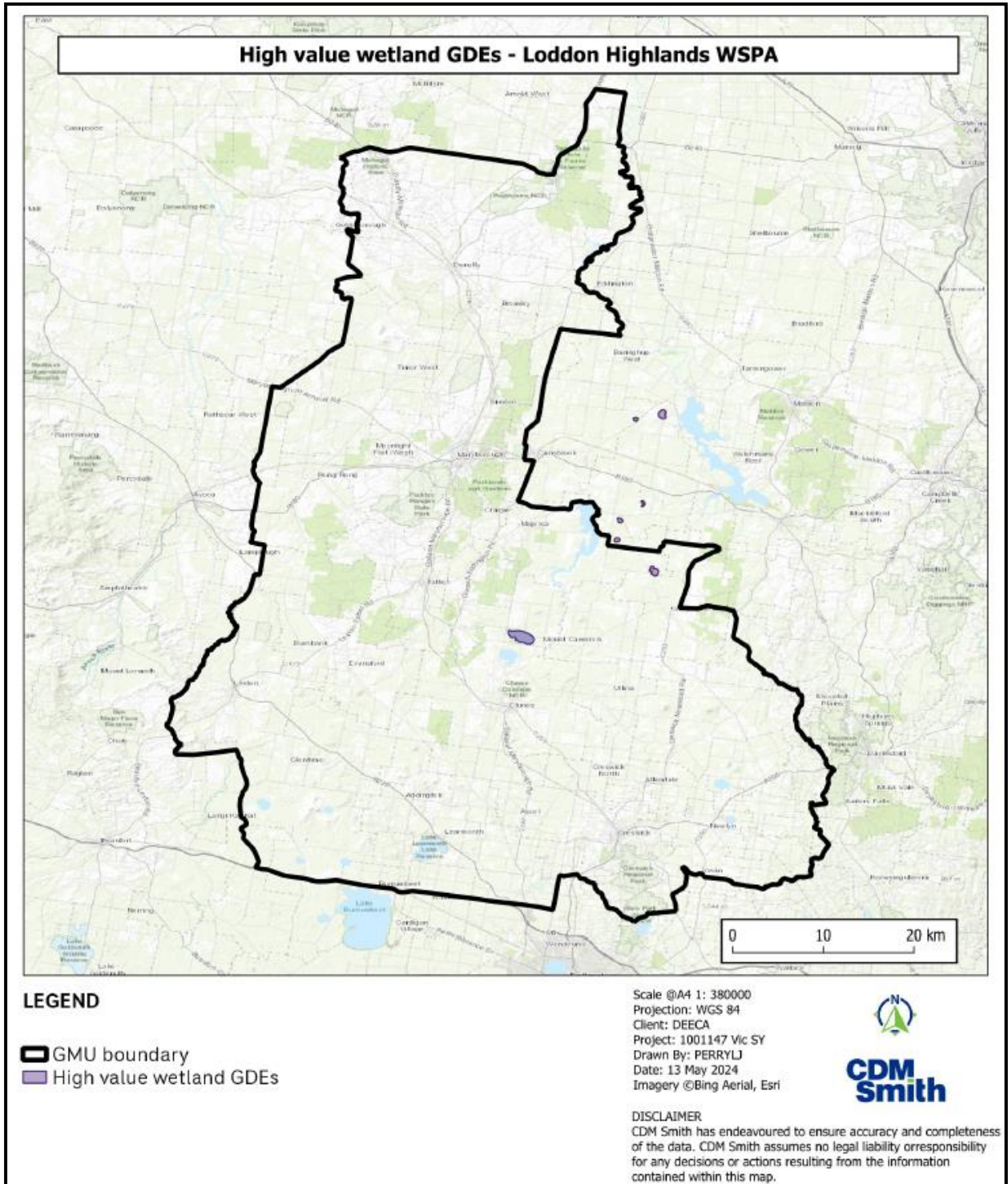


Figure DD-8 Wetland GDEs mapped within the Loddon Highlands WSPA

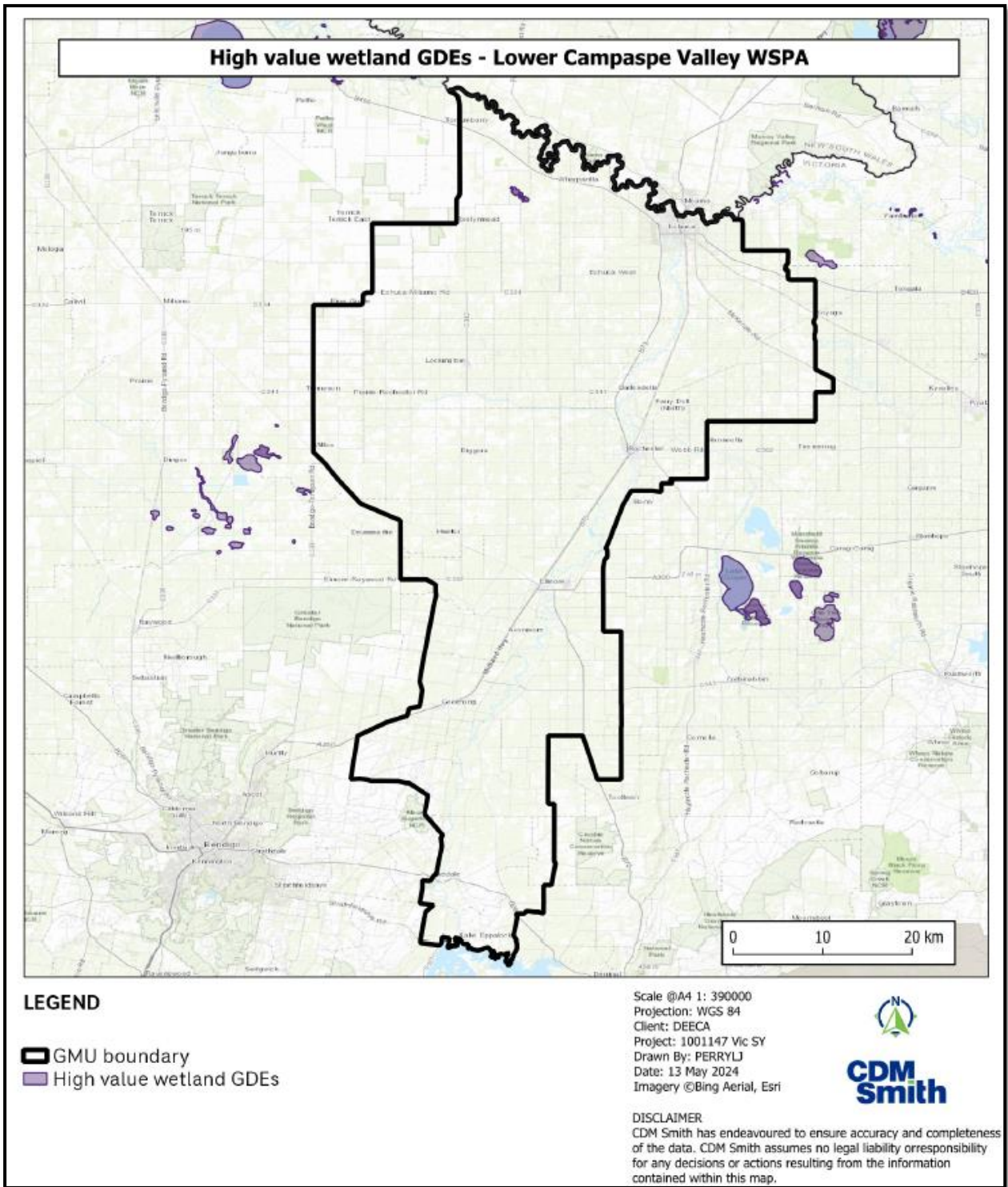


Figure DD-9 Wetland GDEs mapped within the Lower Campaspe Valley WSPA

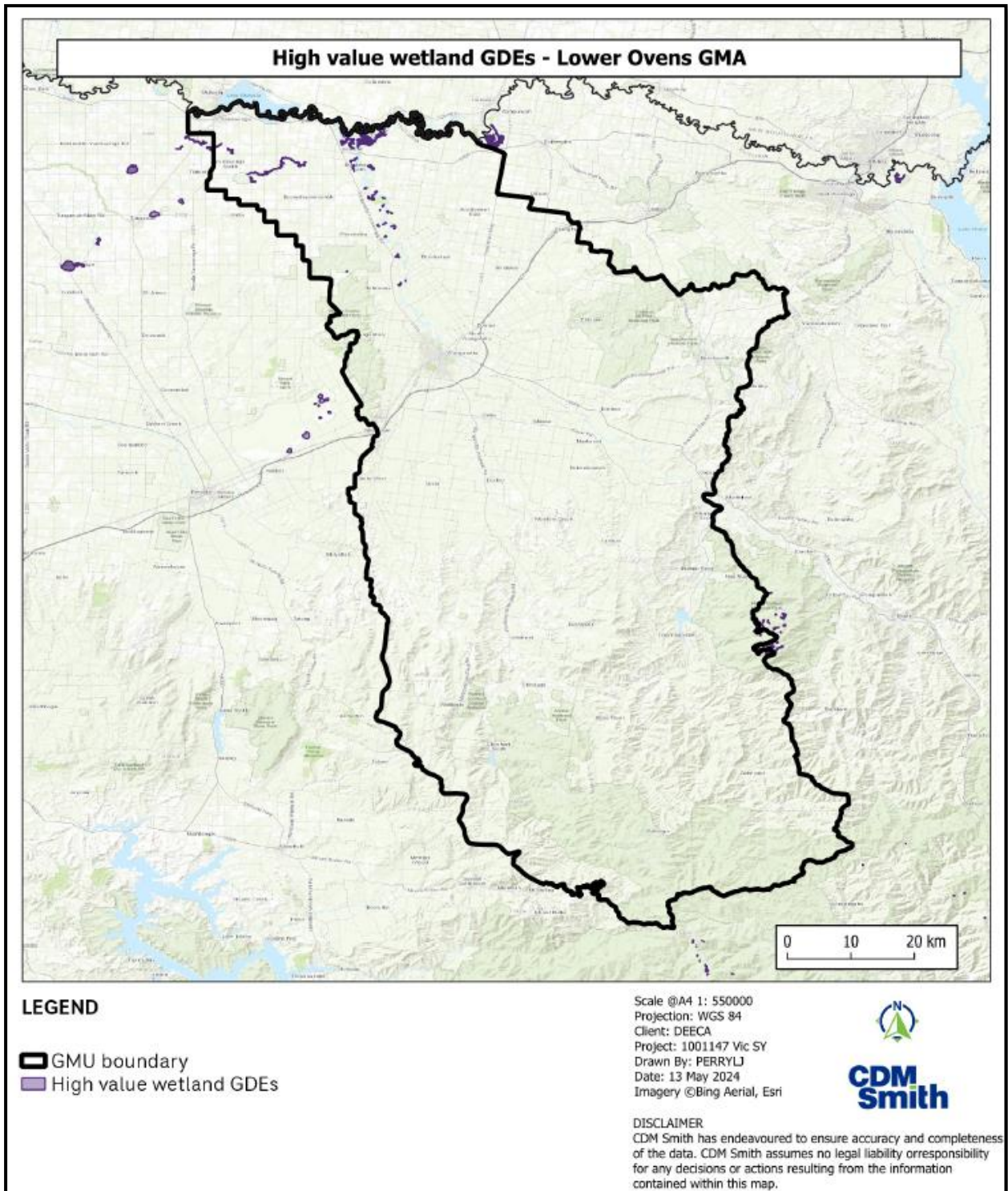


Figure DD-10 Wetland GDEs mapped within the Lowe Ovens GMA

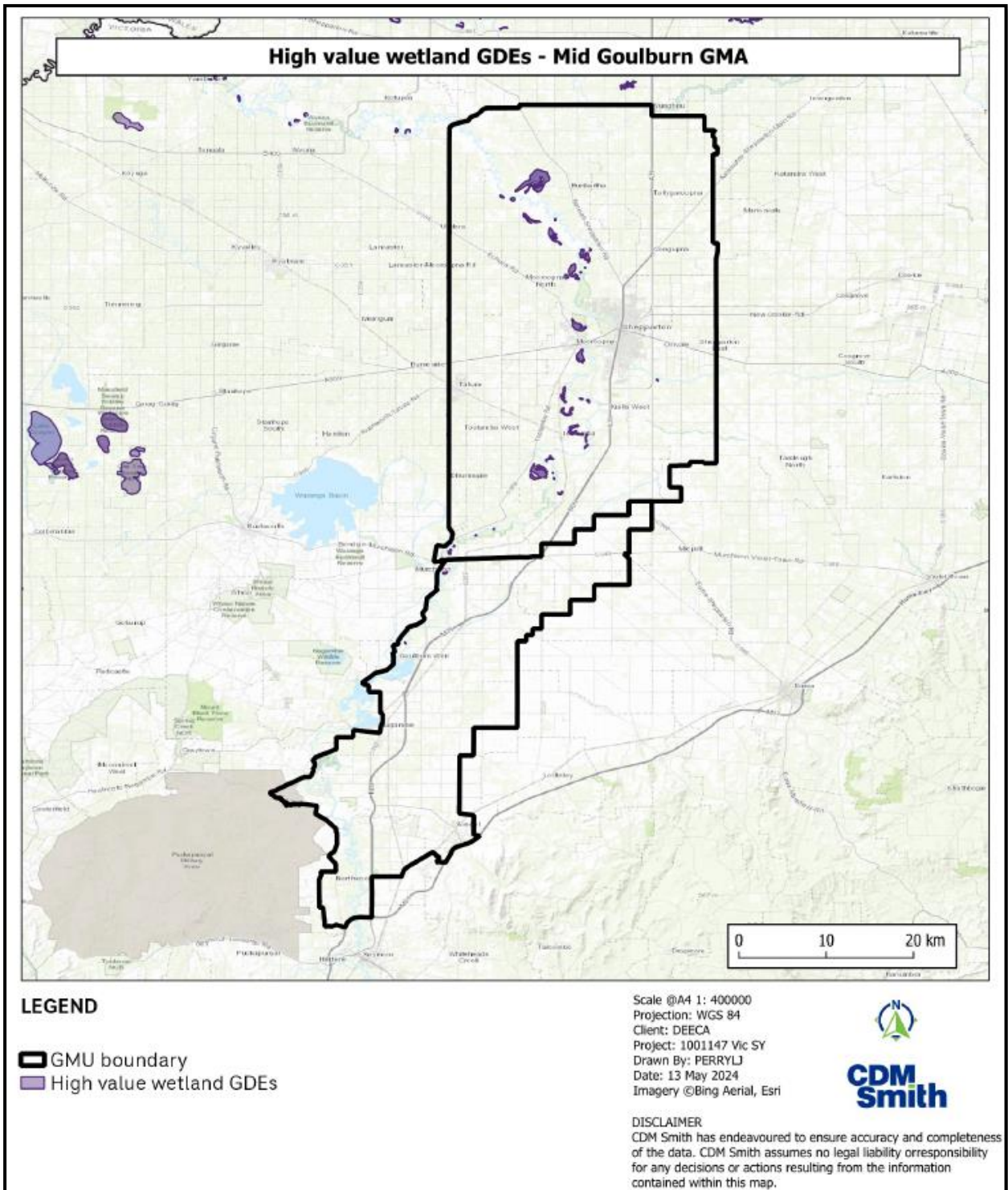


Figure DD-11 Wetland GDEs mapped within the Mid Goulburn GMA

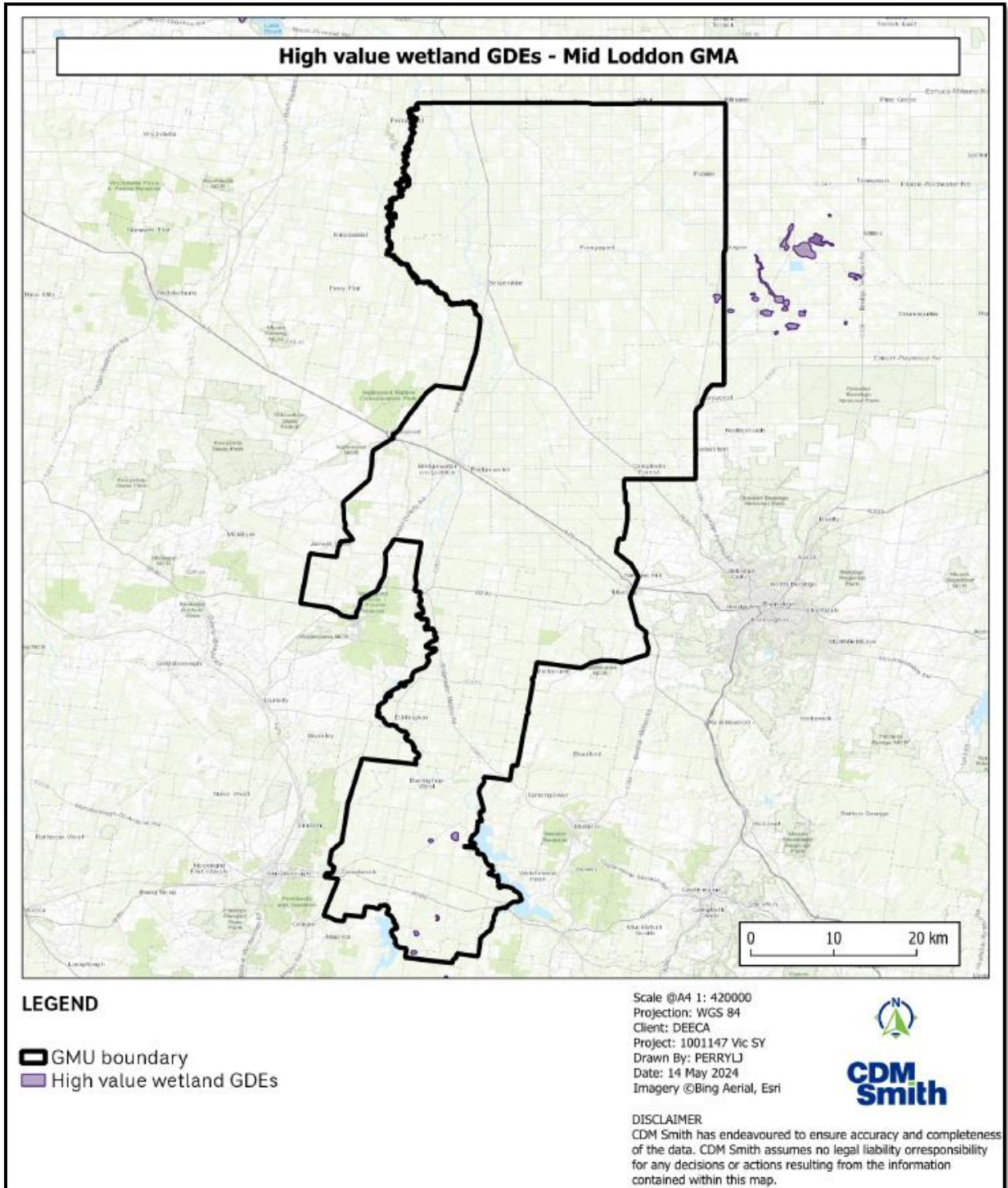


Figure DD-12 Wetland GDEs mapped within the Mid Loddon GMA

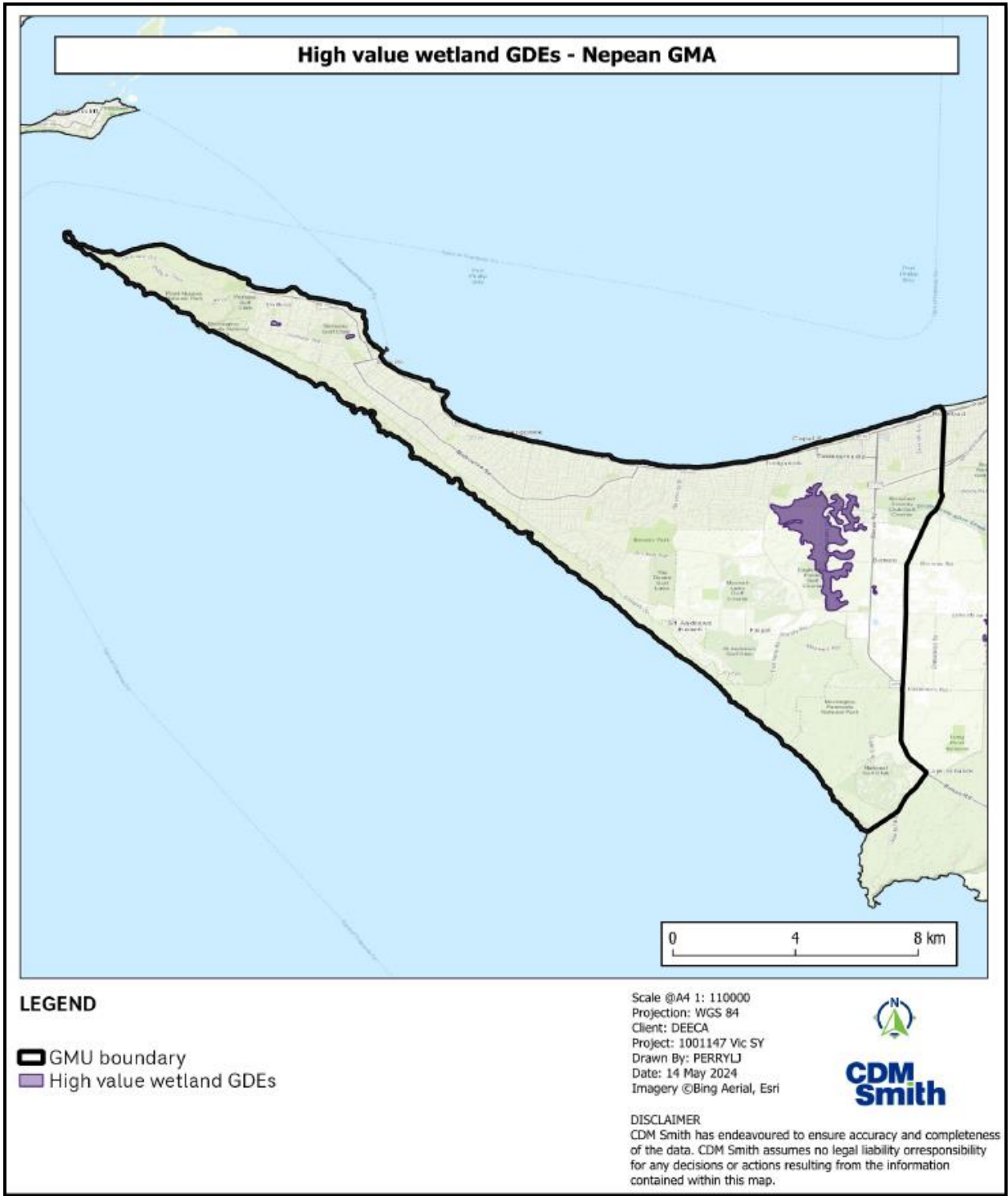


Figure DD-13 Wetland GDEs mapped within the Nepean GMA

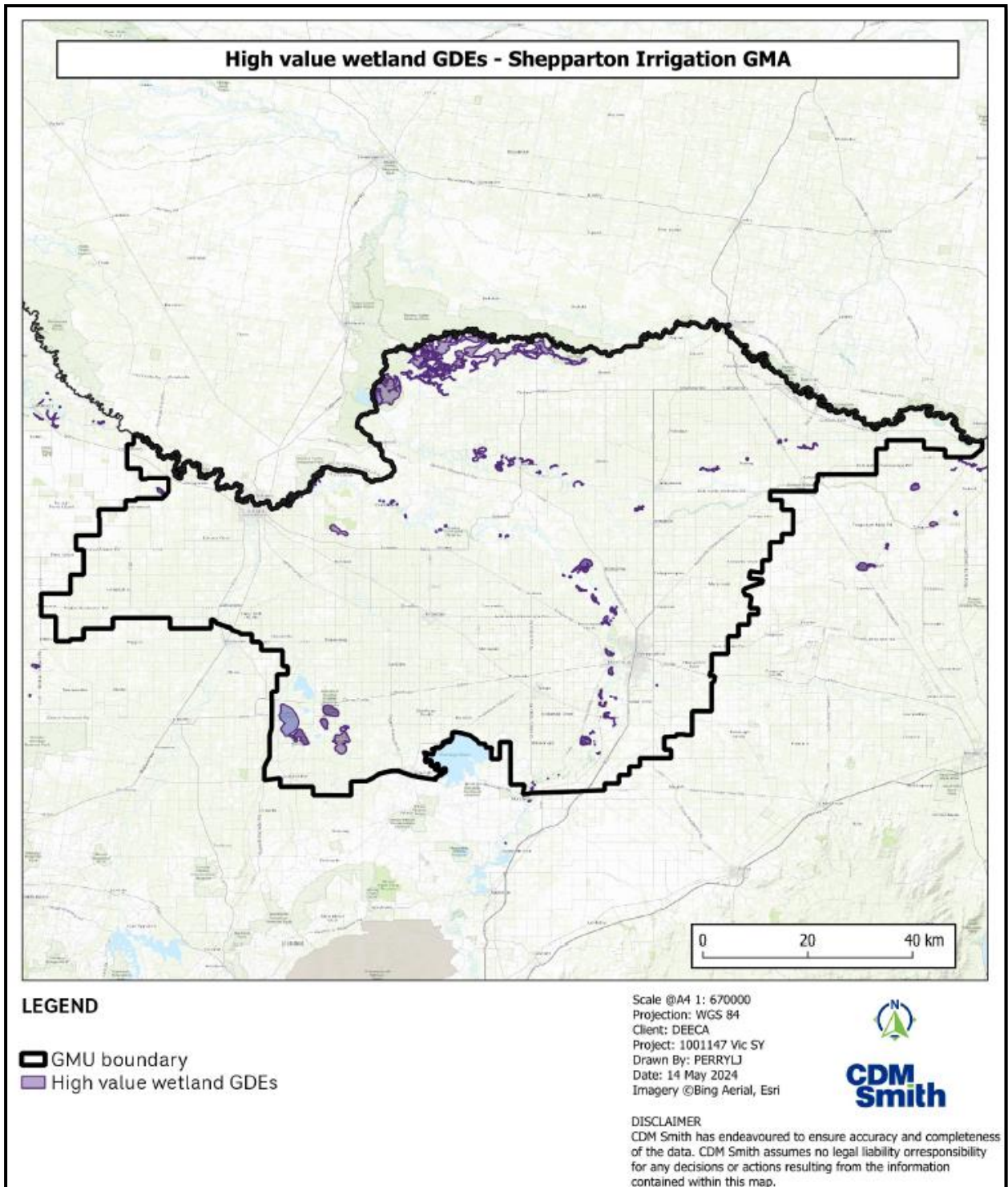


Figure DD-14 Wetland GDEs mapped within the Shepparton Irrigation GMA

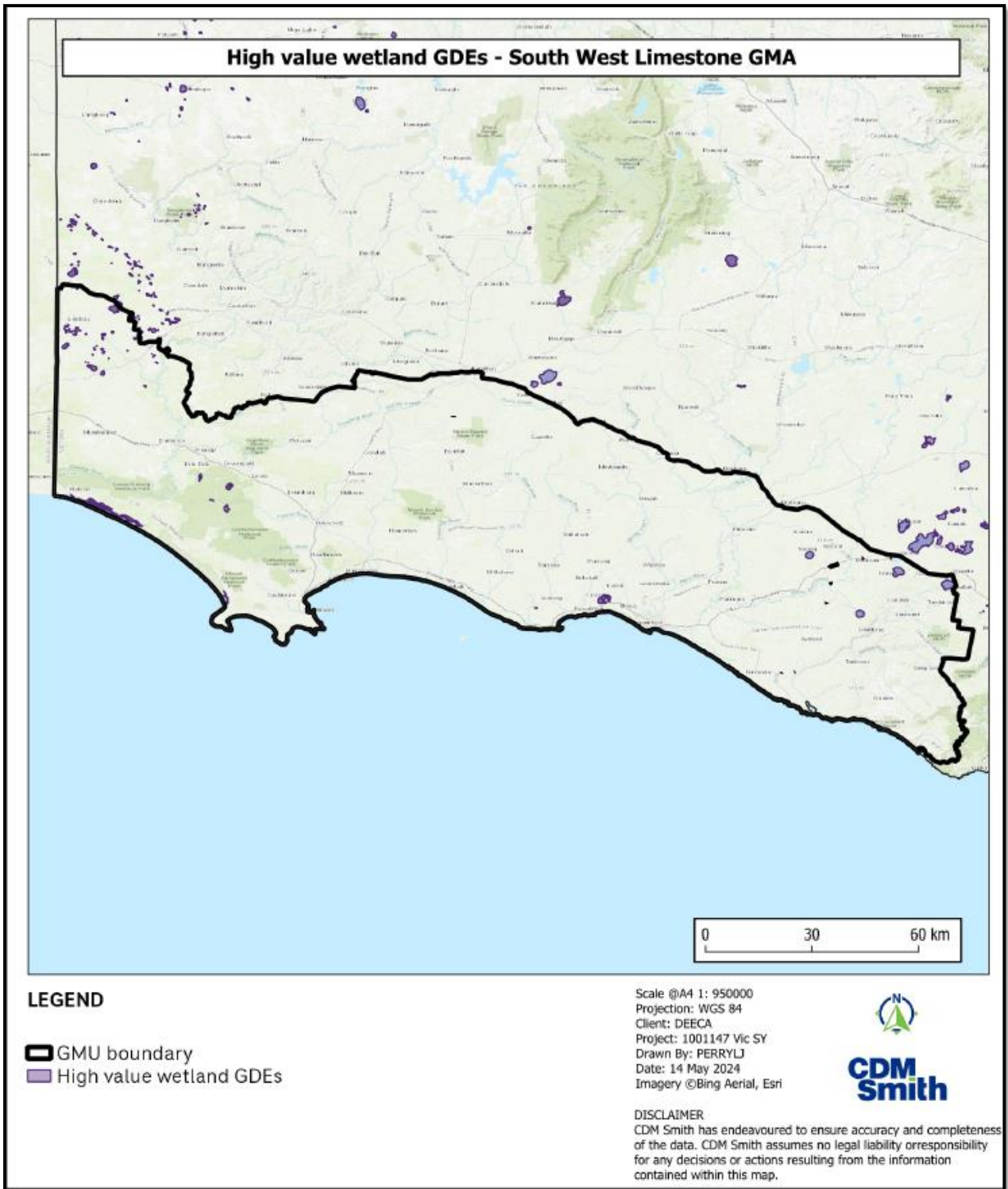


Figure DD-15 Wetland GDEs mapped within the South West Limestone GMA

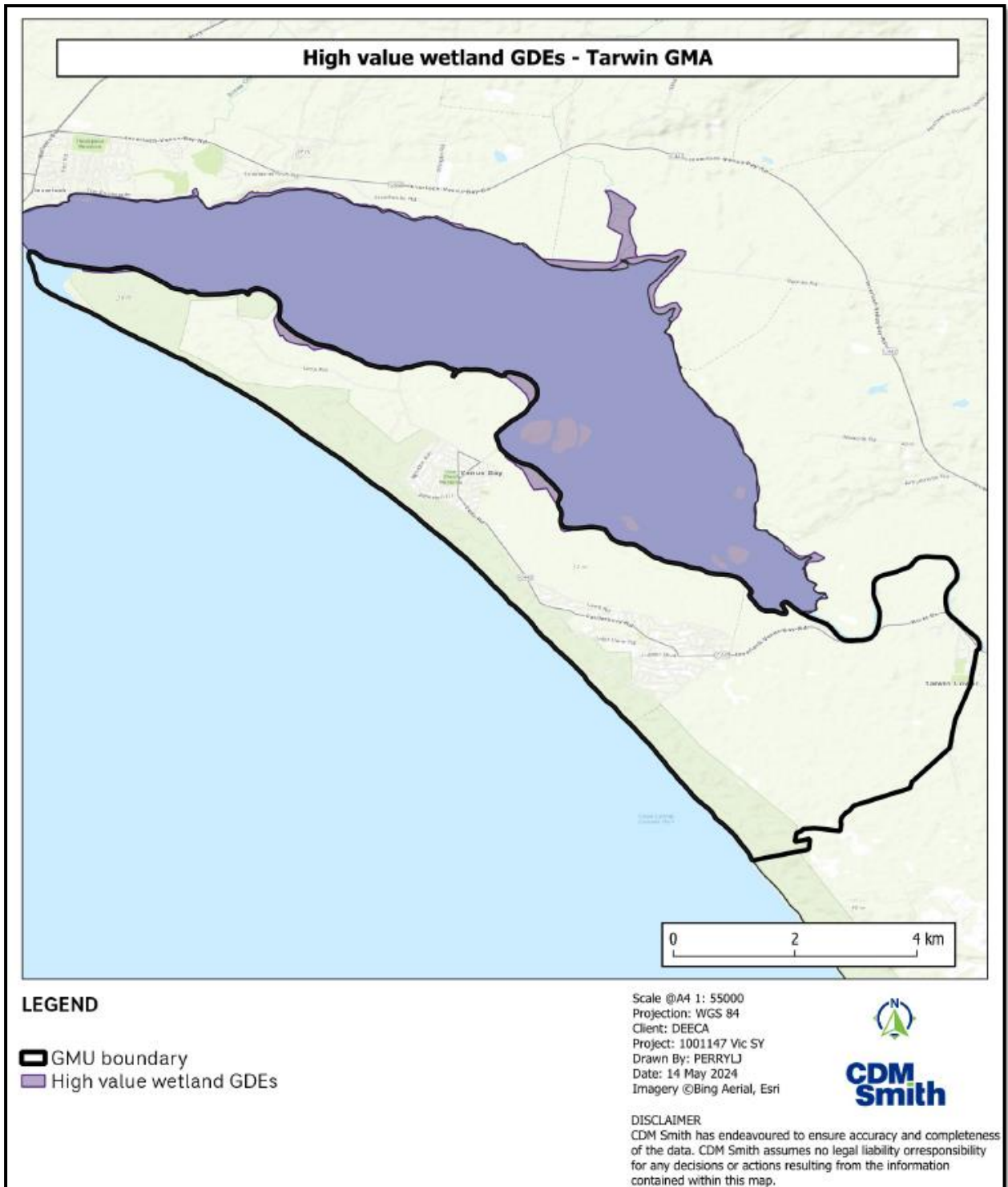


Figure DD-16 Wetland GDEs mapped within the Tarwin GMA

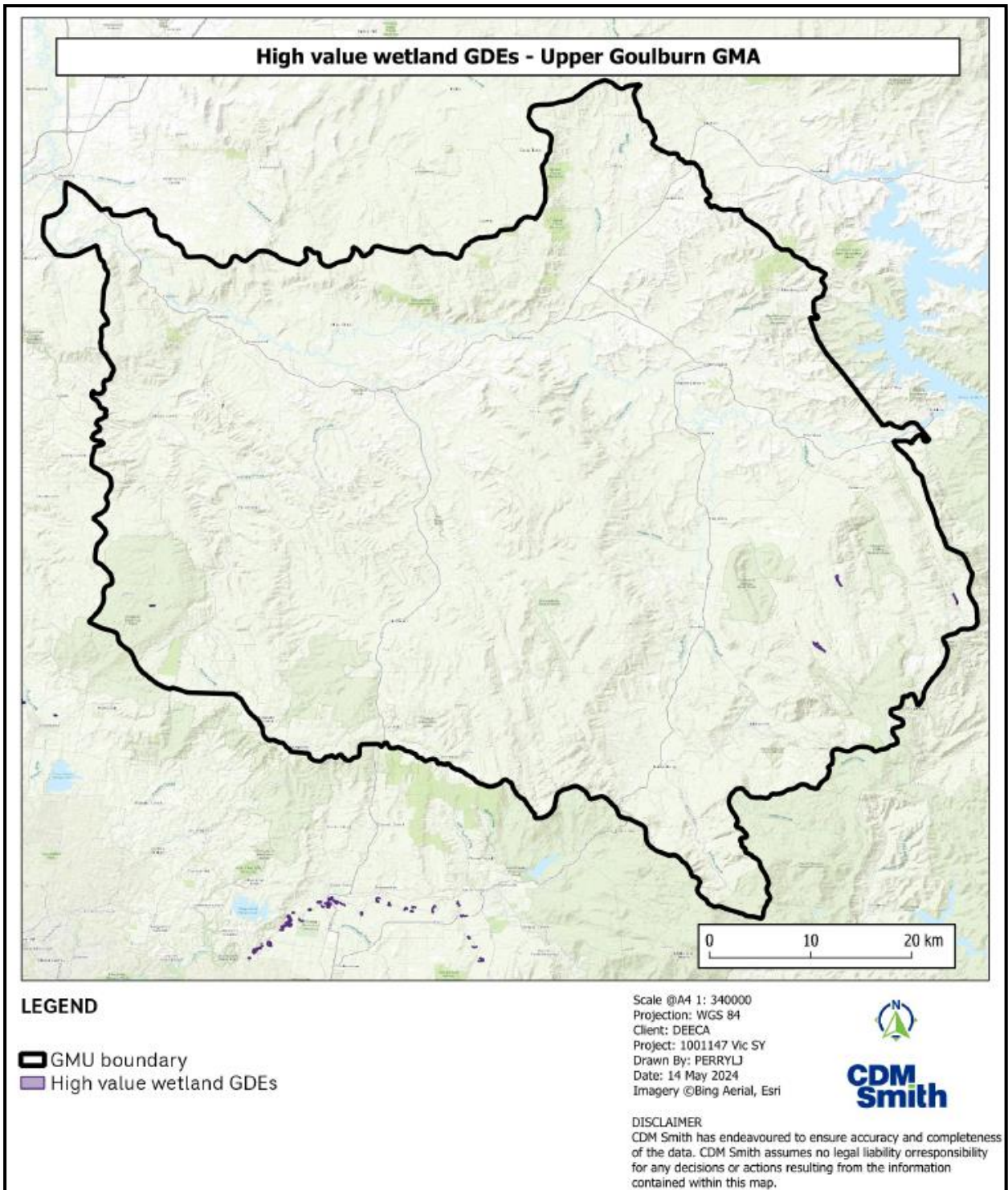


Figure DD-17 Wetland GDEs mapped within the Upper Goulburn GMA

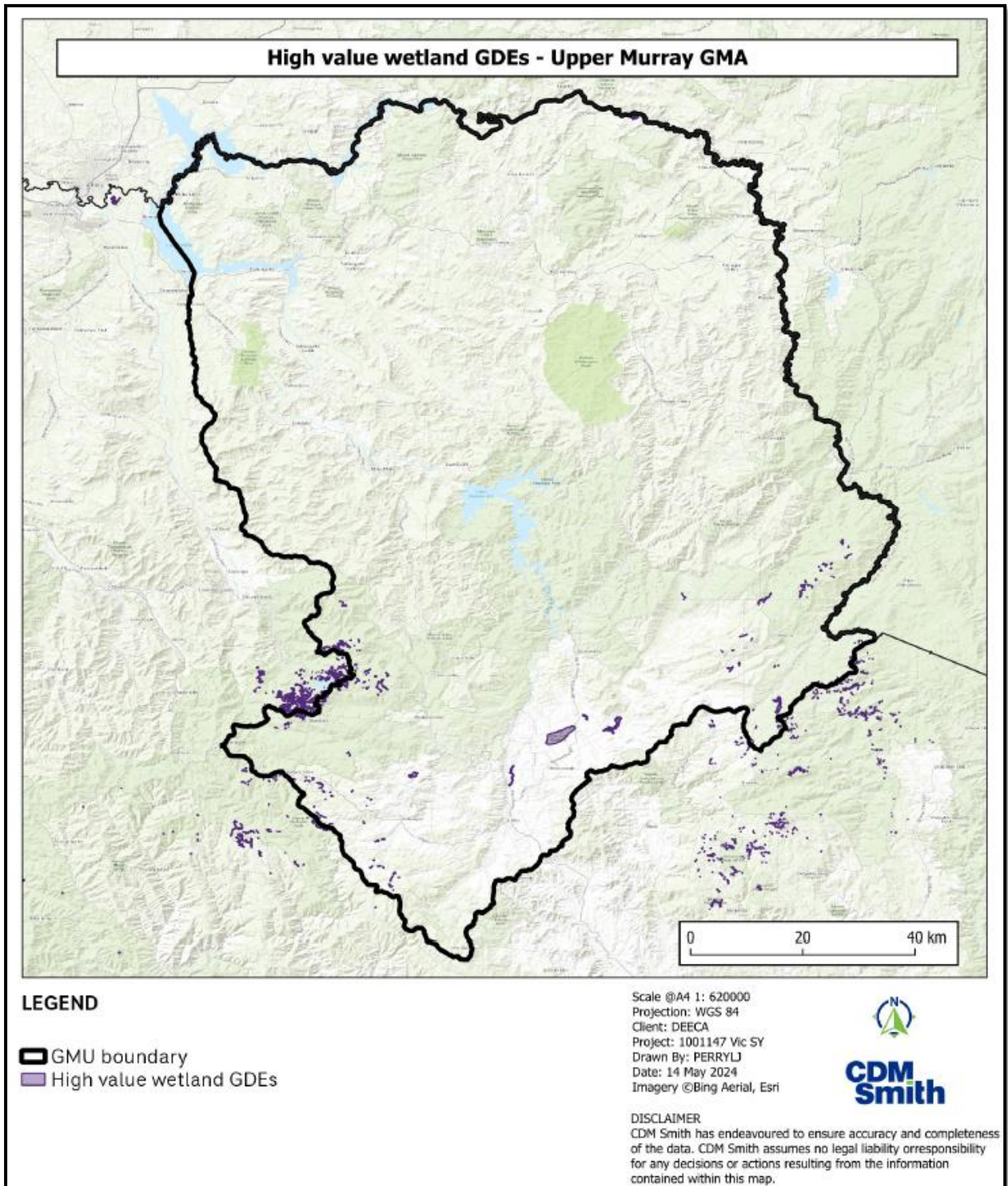


Figure DD-18 Wetland GDEs mapped within the Upper Murray GMA

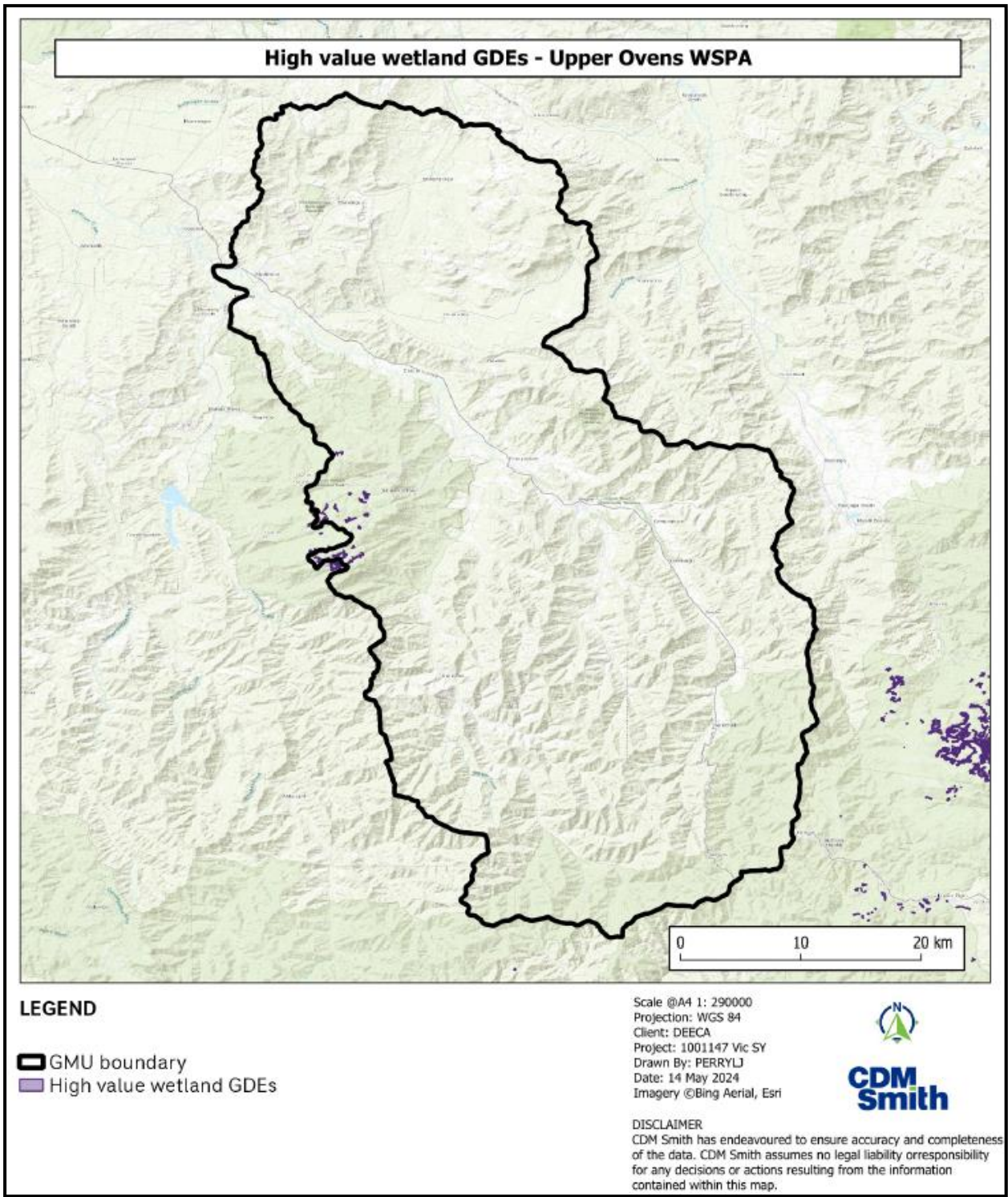


Figure DD-19 Wetland GDEs mapped within the Upper Ovens WSPA

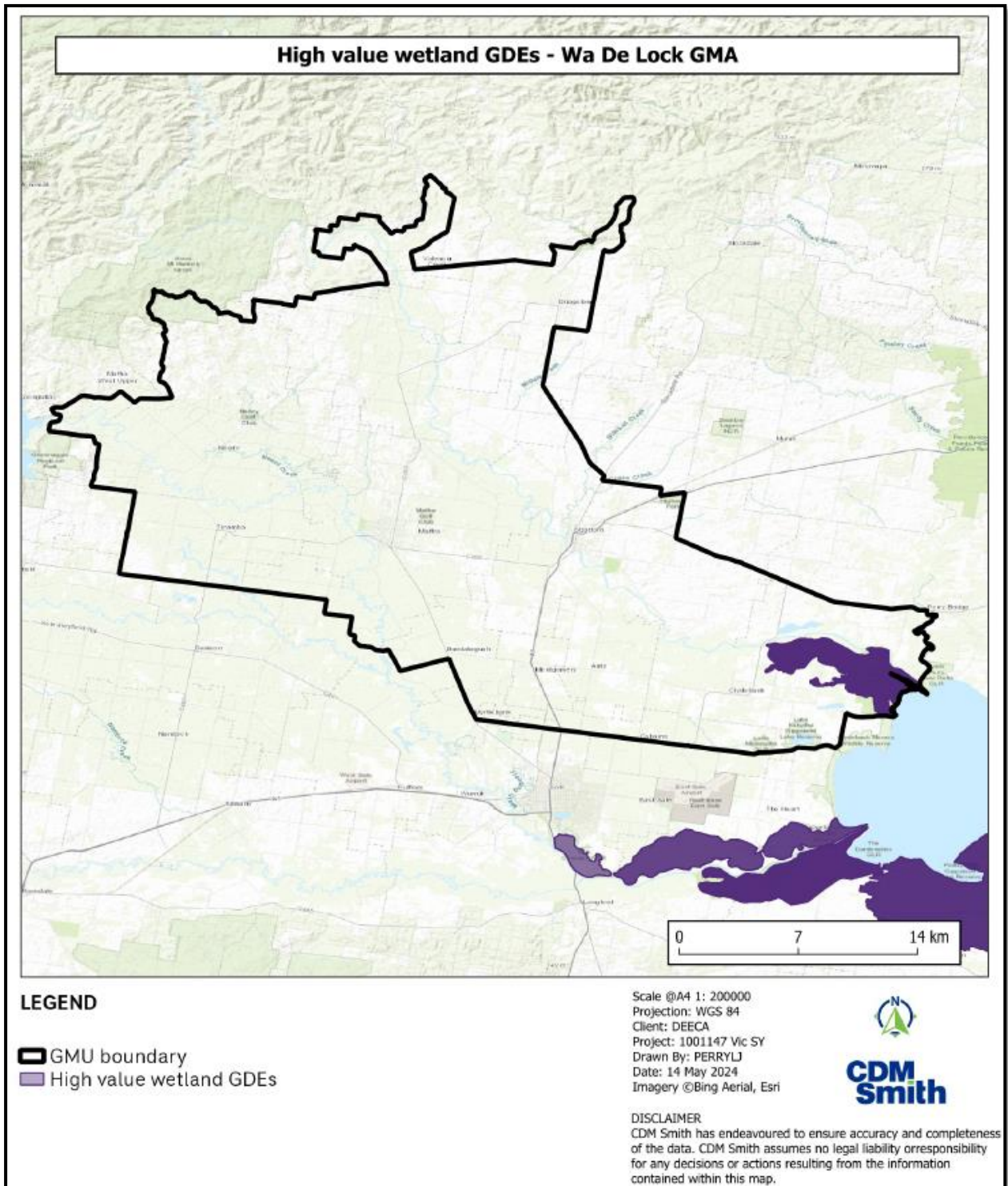


Figure DD-20 Wetland GDEs mapped within the Wa De Lock GMA

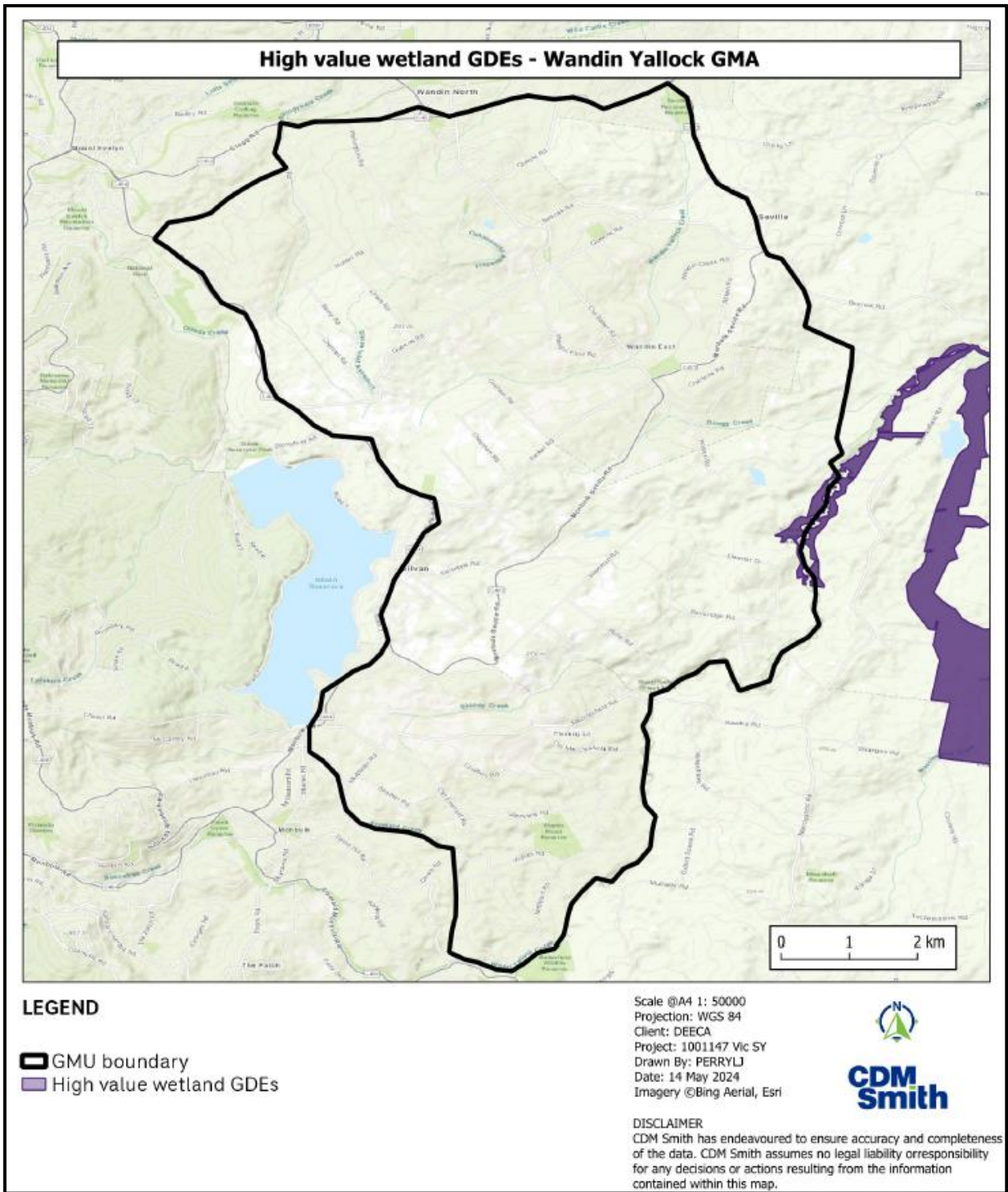


Figure DD-21 Wetland GDEs mapped within the Wandin Yallock GMA

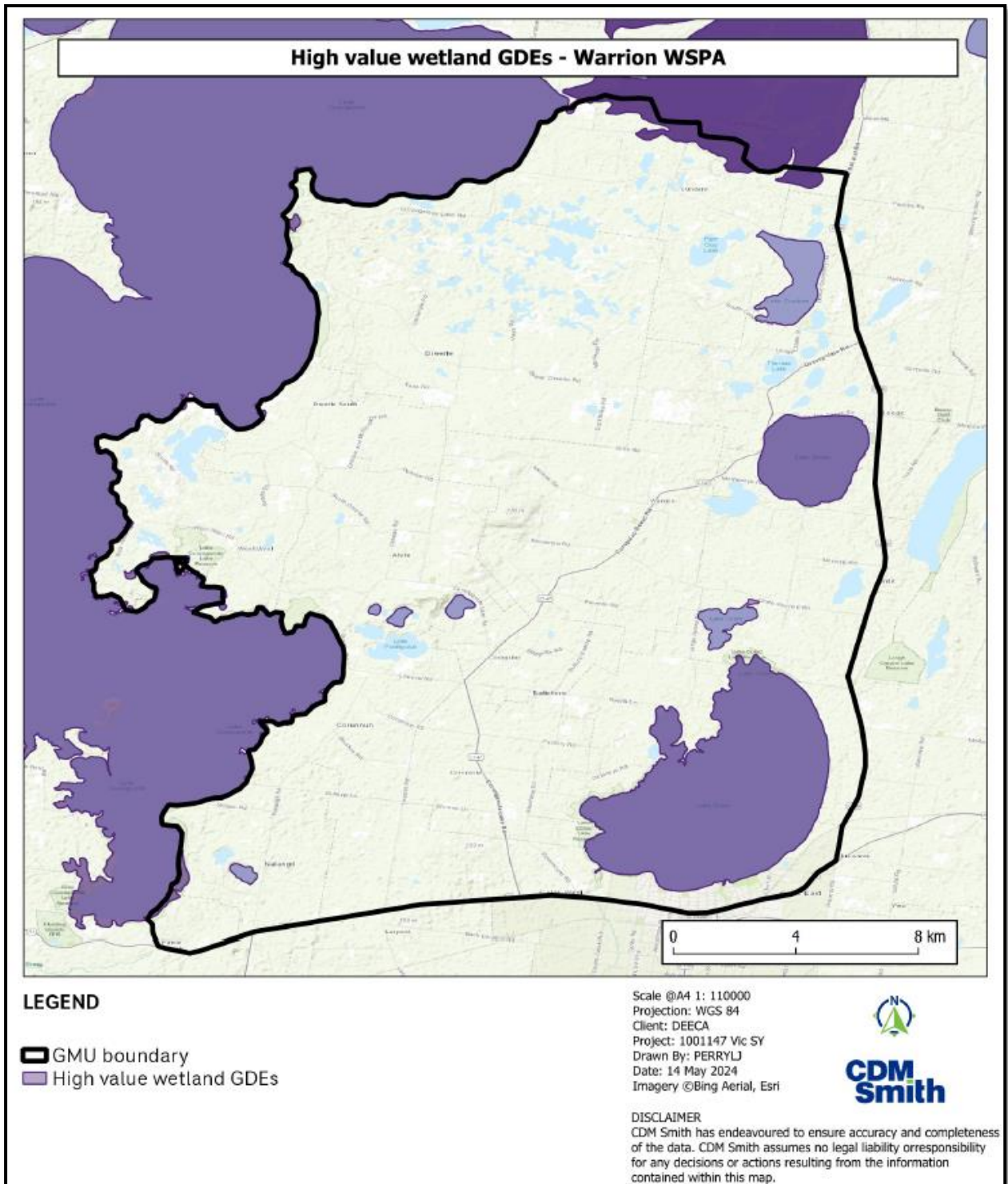


Figure DD-22 Wetland GDEs mapped within the Warrion WSPA

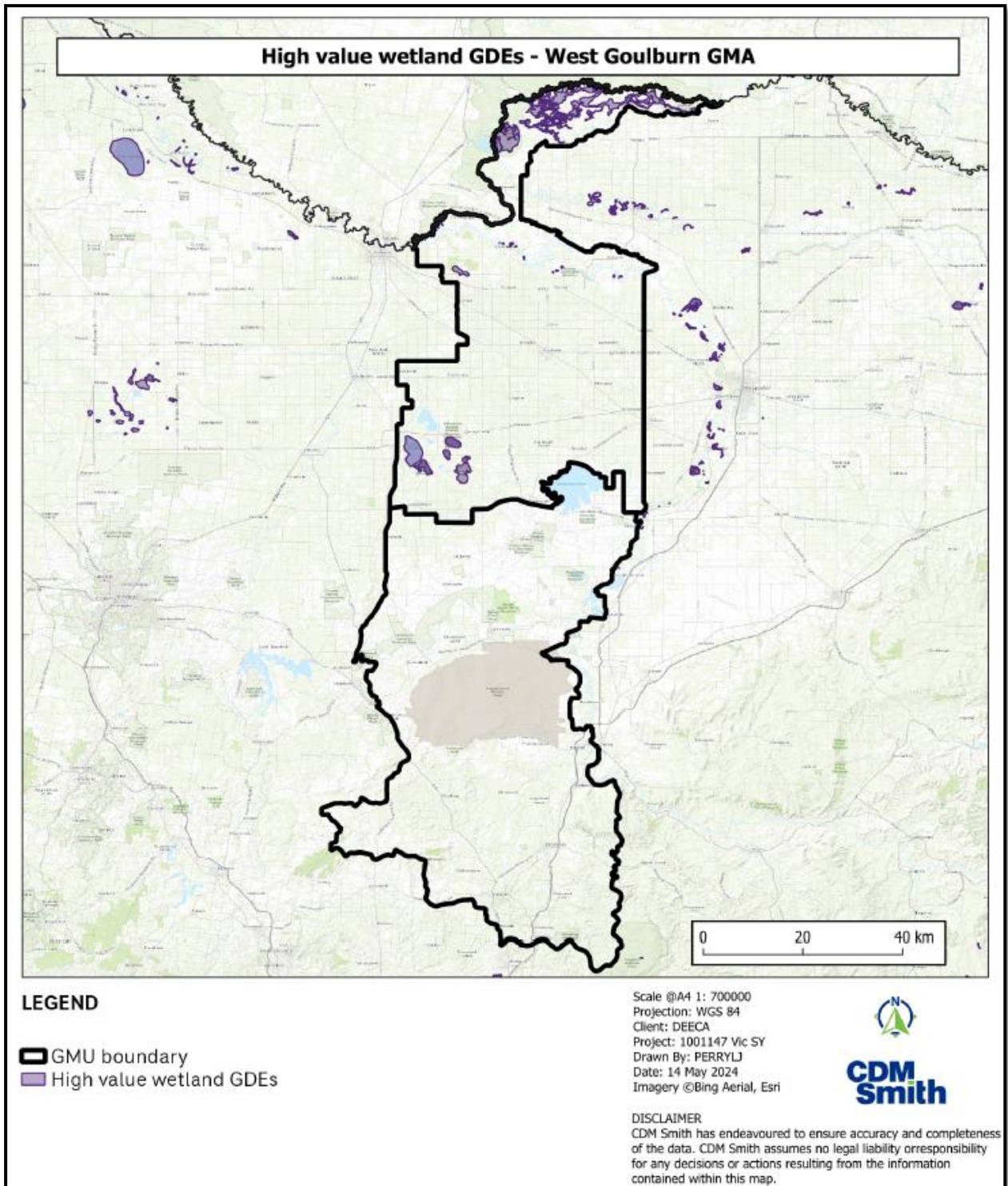


Figure DD-23 Wetland GDEs mapped within the West Goulburn GMA

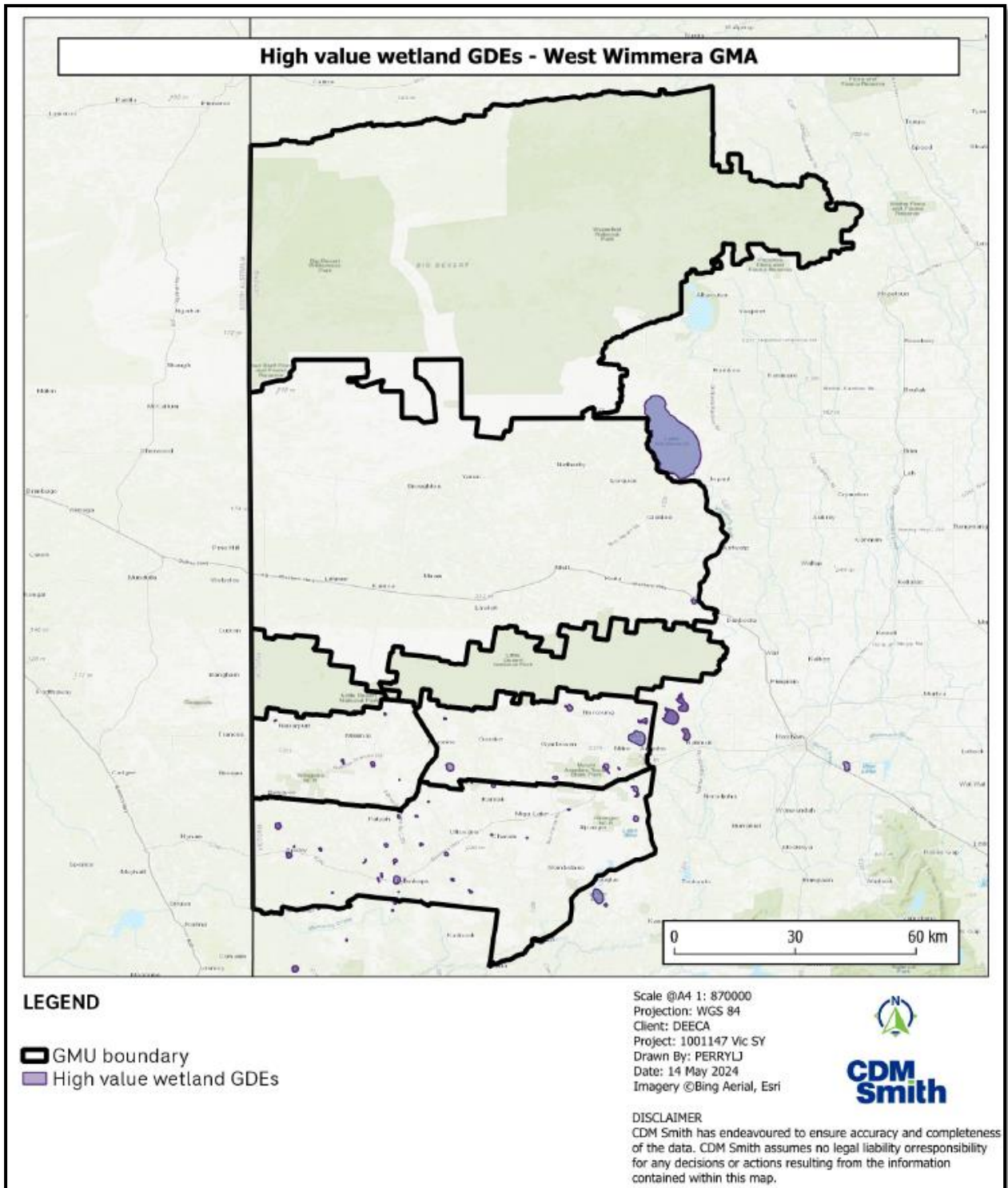


Figure DD-24 Wetland GDEs mapped within the West Wimmera GMA

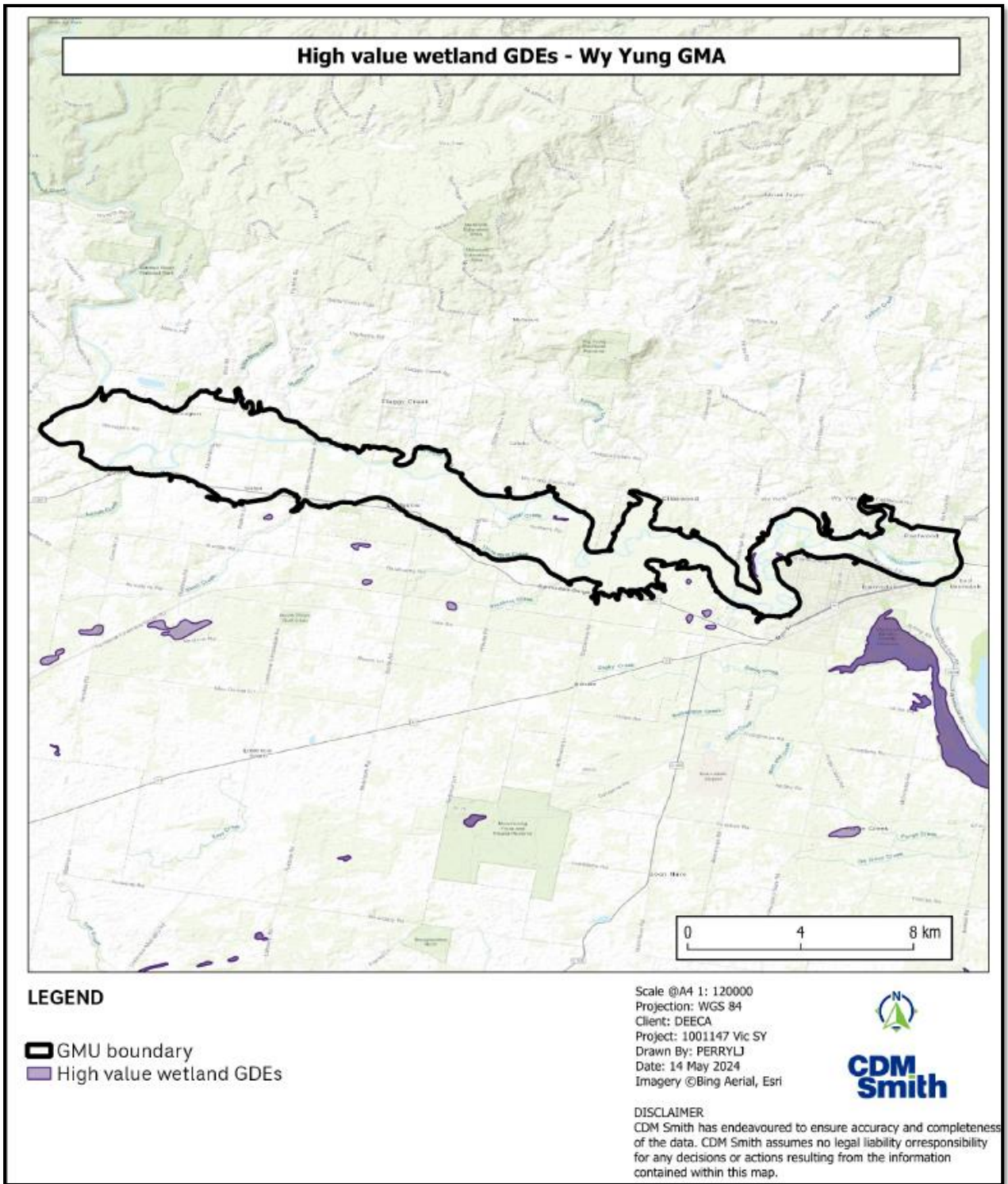


Figure DD-25 Wetland GDEs mapped within the Wy Yung GMA

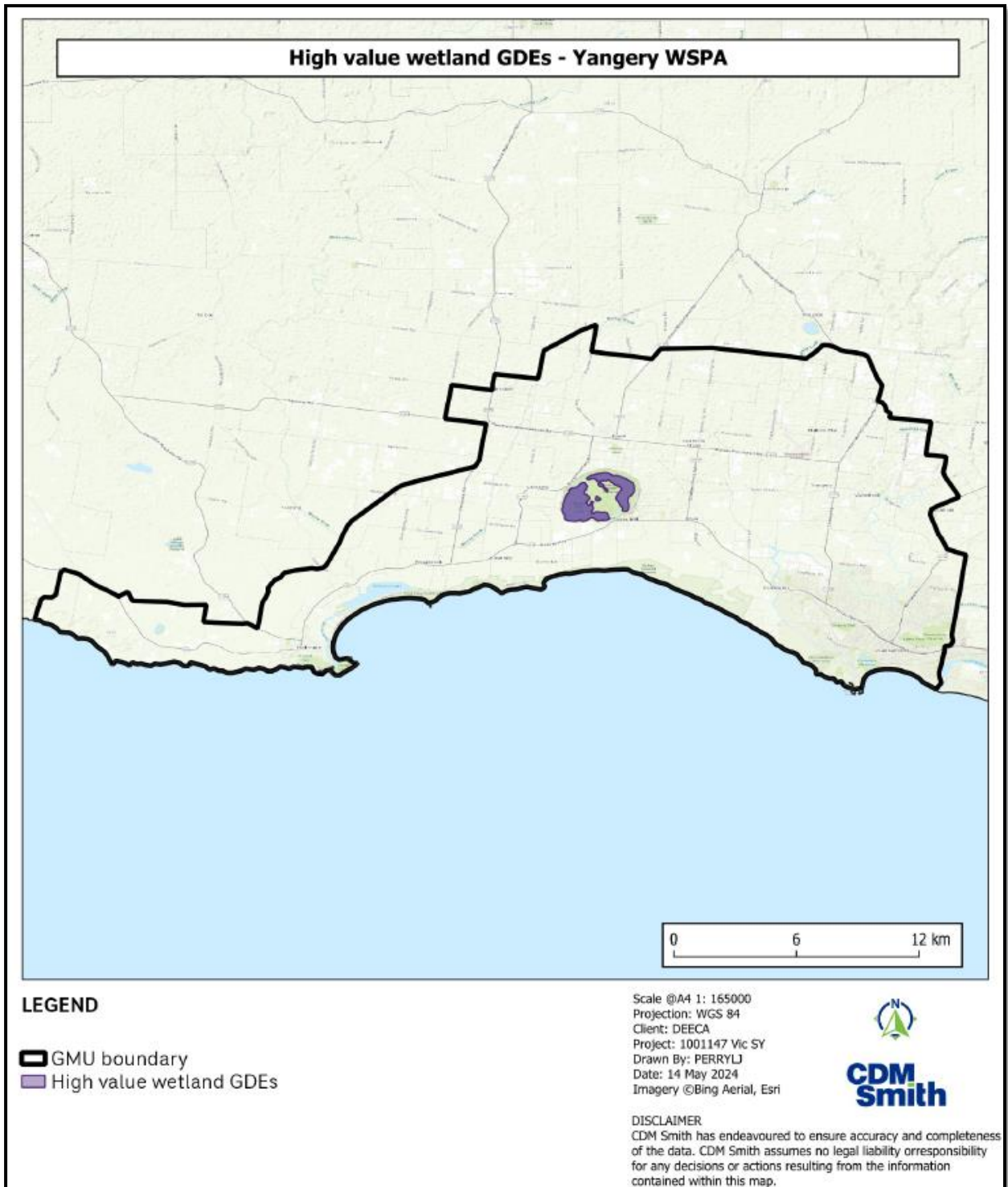


Figure DD-26 Wetland GDEs mapped within the Yangery WSPA

The image features a landscape of a river or wetland. On the right side, there is a clear photograph of a river with a sandy bank and trees. The left side of the image is dominated by a large, semi-transparent blue overlay. The text is positioned on this blue area. The background of the entire image shows a dense forest of trees, with some branches visible in the foreground on the right.

Appendix EE
Synthesis information by GMU –
Wetland GDEs

Table EE-1 Synthesis information – Wetland GDEs- Broken GMA

Assessment area	GMU				BROKEN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 654 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.2
					MCC (LCC - HCC)	1.7 (0.3 to 2.8)
			2041-2065	Drawdown from baseline (m)	No CC	1.6
					MCC (LCC - HCC)	1.6 (0.1 to 5.2)
		PCV use 3,389 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.3
					MCC (LCC - HCC)	1.7 (0.8 to 2.8)
			2041-2065	Drawdown from baseline (m)	No CC	1.6
					MCC (LCC - HCC)	2.7 (0.2 to 5.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	403
					MCC (LCC - HCC)	301 (606 to 188)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.05% (0.09% to 0.04%)
			2041-2065	Volume (ML/yr)	No CC	260
						MCC (LCC - HCC)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.05% (0.37% to 0.04%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,027
					MCC (LCC - HCC)	3,010 (6,060 to 1,885)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.53% (0.86% to 0.44%)
			2041-2065	Volume (ML/yr)	No CC	2,596
						MCC (LCC - HCC)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.46% (3.71% to 0.39%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	8,054		
			MCC (LCC - HCC)	6,021 (12,120 to 3,769)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.06% (1.72% to 0.88%)		
	2041-2065	Volume (ML/yr)	No CC	5,192		
				MCC (LCC - HCC)	4,076 (44,301 to 2,092)	
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.92% (7.42% to 0.79%)			

Table EE-2 Synthesis information – Wetland GDEs- Colongulac GMA

Assessment area	GMU				COLONGULAC GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 484 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	0.4 (-0.6 to 1.6)
			2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0 to 3.4)
		PCV use 1,718 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	1 (-1 to 3.1)
			2041-2065	Drawdown from baseline (m)	No CC	1.3
					MCC (LCC - HCC)	3.1 (0.1 to 5.9)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	299 (- to 90)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.5% (- to 0.2%)	
			2041-2065	Volume (ML/yr)	No CC	98
					MCC (LCC - HCC)	97 (- to 48)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.2% (- to 0.1%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	2,986 (- to 898)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	5.4% (- to 1.9%)	
			2041-2065	Volume (ML/yr)	No CC	985
					MCC (LCC - HCC)	966 (- to 480)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	2.3% (- to 1.4%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-		
			MCC (LCC - HCC)	5,971 (- to 1,796)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	11% (- to 4%)			
	2041-2065	Volume (ML/yr)	No CC	1,970		
			MCC (LCC - HCC)	1,932 (- to 960)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	4.6% (- to 2.8%)				

Table EE-3 Synthesis information – Wetland GDEs-Deutgam GMA

Assessment area	GMU				DEUTGAM WSPA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 708 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5	
					MCC (LCC - HCC)	0.9 (0 to 1.4)	
			2041-2065	Drawdown from baseline (m)	No CC	0.9	
					MCC (LCC - HCC)	0.9 (0.4 to 2.5)	
			PCV use 4,274 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.8
						MCC (LCC - HCC)	2.4 (1.2 to 3.4)
		2041-2065		Drawdown from baseline (m)	No CC	2.6	
					MCC (LCC - HCC)	3.8 (1.5 to 5.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	314	
					MCC (LCC - HCC)	247 (428 to 182)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.7% (2.3% to 1.5%)	
			2041-2065	Volume (ML/yr)	No CC	181	
					MCC (LCC - HCC)	149 (289 to 103)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	1.2% (1.7% to 1.1%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,138	
					MCC (LCC - HCC)	2,466 (4,281 to 1,816)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	16% (23% to 14%)	
			2041-2065	Volume (ML/yr)	No CC	1,810	
					MCC (LCC - HCC)	1,491 (2,885 to 1,030)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	12% (17% to 11%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,275			
			MCC (LCC - HCC)	4,933 (8,563 to 3,633)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	33% (45% to 29%)			
	2041-2065	Volume (ML/yr)	No CC	3,621			
			MCC (LCC - HCC)	2,981 (5,771 to 2,060)			
Proportion of recharge (%)	No CC	NA					
	MCC (LCC - HCC)	24% (33% to 22%)					

Table EE-4 Synthesis information – Wetland GDEs- Frankston GMA

Assessment area	GMU				FRANKSTON GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 56 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.4 (0.2 to 2.3)
			2041-2065	Drawdown from baseline (m)	No CC	1.4
					MCC (LCC - HCC)	1.4 (0.6 to 3.9)
		PCV use 665 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	2.4 (1.2 to 3.4)
			2041-2065	Drawdown from baseline (m)	No CC	2.8
					MCC (LCC - HCC)	4 (1.9 to 5.9)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	47
					MCC (LCC - HCC)	37 (64 to 28)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.12% (0.17% to 0.11%)	
			2041-2065	Volume (ML/yr)	No CC	128
					MCC (LCC - HCC)	22 (38 to 16)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.09% (0.11% to 0.08%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	468
					MCC (LCC - HCC)	369 (643 to 278)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.2% (1.7% to 1.1%)	
			2041-2065	Volume (ML/yr)	No CC	1,285
					MCC (LCC - HCC)	218 (380 to 158)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.9% (1.1% to 0.8%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	935		
			MCC (LCC - HCC)	739 (1,286 to 555)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	2.4% (3.4% to 2.2%)			
	2041-2065	Volume (ML/yr)	No CC	2,569		
			MCC (LCC - HCC)	436 (760 to 315)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	1.7% (2.2% to 1.6%)				

Table EE-5 Synthesis information – Wetland GDEs- Glenelg WSPA

Assessment area	GMU				GLENELG WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	0.3 (0.1 to 0.5)
		6,068 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.1 (-0.1 to 1.2)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.7 (0.1 to 1.2)
		23,625 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	1.5 (0.1 to 2.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	9,435
					MCC (LCC - HCC)	4,293 (14,962 to 2,823)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	3% (7% to 2%)	
			2041-2065	Volume (ML/yr)	No CC	5,863
					MCC (LCC - HCC)	2,182 (9,128 to 1,355)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	2% (4% to 1%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	94,346
					MCC (LCC - HCC)	42,932 (149,615 to 28,234)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	26% (66% to 21%)	
			2041-2065	Volume (ML/yr)	No CC	58,625
					MCC (LCC - HCC)	21,821 (91,278 to 13,547)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	16% (42% to 12%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	188,691		
			MCC (LCC - HCC)	85,864 (299,231 to 56,469)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	52% (131% to 41%)			
	2041-2065	Volume (ML/yr)	No CC	117,250		
			MCC (LCC - HCC)	43,643 (182,556 to 27,094)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	31% (84% to 25%)				

Table EE-6 Synthesis information – Wetland GDEs- Gymbowen Zone (West Wimmera) GMU

Assessment area	GMU		GYMBOWEN ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 37 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.9 (0.4 to 1)
		2041-2065	Drawdown from baseline (m)	No CC	0.9	
				MCC (LCC - HCC)	0.9 (0.5 to 1.7)	
		PCV use 63 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
					MCC (LCC - HCC)	1 (0.4 to 1.4)
		2041-2065	Drawdown from baseline (m)	No CC	1.1	
				MCC (LCC - HCC)	1.7 (0.5 to 2.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	13
					MCC (LCC - HCC)	9 (18 to 7)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.01% (0.02% to 0.01%)	
			2041-2065	Volume (ML/yr)	No CC	6
					MCC (LCC - HCC)	6 (15 to 4)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.01% (0.02% to 0.01%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	127
					MCC (LCC - HCC)	88 (183 to 67)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.11% (0.18% to 0.12%)	
			2041-2065	Volume (ML/yr)	No CC	63
					MCC (LCC - HCC)	55 (146 to 37)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.10% (0.18% to 0.13%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	255		
			MCC (LCC - HCC)	175 (367 to 134)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		0.21% (0.36% to 0.24%)			
	2041-2065	Volume (ML/yr)	No CC	126		
			MCC (LCC - HCC)	110 (292 to 74)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.21% (0.36% to 0.25%)				

Table EE-7 Synthesis information – Wetland GDEs-Kiewa GMA

Assessment area	GMU				KIEWA GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 666 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.9
					MCC (LCC - HCC)	2 (-0.8 to 2.9)
			2041-2065	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1 (0.1 to 3.3)
		PCV use 2,864 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.4
					MCC (LCC - HCC)	3.9 (1.9 to 6.1)
			2041-2065	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	2.9 (-2.1 to 8.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	149
					MCC (LCC - HCC)	130 (323 to 80)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.01% (0.03% to 0.01%)
			2041-2065	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	260 (- to 64)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.03% (- to 0.01%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,492
					MCC (LCC - HCC)	1,304 (3,226 to 804)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.14% (0.33% to 0.11%)
			2041-2065	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	2,602 (- to 643)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.32% (- to 0.12%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,985		
			MCC (LCC - HCC)	2,608 (6,453 to 1,608)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.28% (0.66% to 0.21%)		
	2041-2065	Volume (ML/yr)	No CC	-		
			MCC (LCC - HCC)	5,204 (- to 1,287)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.64% (- to 0.24%)			

Table EE-8 Synthesis information – Wetland GDEs-Koo Wee Rup WSPA

Assessment area	GMU				KOO WEE RUP WSPA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 3,483 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9	
					MCC (LCC - HCC)	1.7 (0.2 to 2.6)	
			2041-2065	Drawdown from baseline (m)	No CC	1.6	
					MCC (LCC - HCC)	1.6 (0.8 to 4.6)	
		PCV use 11,497 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5	
					MCC (LCC - HCC)	2.4 (0.8 to 3.6)	
			2041-2065	Drawdown from baseline (m)	No CC	2.4	
					MCC (LCC - HCC)	3.9 (1.3 to 6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	937	
					MCC (LCC - HCC)	638 (1,583 to 449)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.20% (0.43% to 0.17%)	
				2041-2065	Volume (ML/yr)	No CC	692
						MCC (LCC - HCC)	416 (968 to 274)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	0.16% (0.28% to 0.16%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	9,365	
					MCC (LCC - HCC)	6,381 (15,833 to 4,494)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	2.0% (4.3% to 1.7%)	
				2041-2065	Volume (ML/yr)	No CC	6,922
						MCC (LCC - HCC)	4,156 (9,678 to 2,739)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	1.6% (2.8% to 1.6%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	18,730			
			MCC (LCC - HCC)	12,763 (31,666 to 8,989)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	4% (9% to 3%)			
		2041-2065	Volume (ML/yr)	No CC	13,844		
				MCC (LCC - HCC)	8,313 (19,357 to 5,477)		
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	3% (6% to 3%)				

Table EE-9 Synthesis information – Wetland GDEs-Little Dessert Zone (West Wimmera)

Assessment area	GMU		LITTLE DESERT ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 0 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0 (0 to 0.2)
			2041-2065	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.1 (0 to 0.4)
		PCV use 0 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.4 (-0.2 to 1.1)
			2041-2065	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	1.1 (-0.2 to 2.5)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
			Proportion of recharge (%)	No CC		
				MCC (LCC - HCC)		
			2041-2065	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
		Proportion of recharge (%)	No CC			
			MCC (LCC - HCC)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
			Proportion of recharge (%)	No CC		
				MCC (LCC - HCC)		
			2041-2065	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
		Proportion of recharge (%)	No CC			
			MCC (LCC - HCC)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC			
			MCC (LCC - HCC)			
	Proportion of recharge (%)	No CC				
		MCC (LCC - HCC)				
	2041-2065	Volume (ML/yr)	No CC			
			MCC (LCC - HCC)			
Proportion of recharge (%)	No CC					
	MCC (LCC - HCC)					

Table EE-10 Synthesis information – Wetland GDEs-Loddon Highlands WSPA

Assessment area	GMU		LODDON HIGHLANDS WSPA				
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 4,954 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.6	
					MCC (LCC - HCC)	2.4 (0.4 to 3.5)	
			2041-2065	Drawdown from baseline (m)	No CC	1.9	
					MCC (LCC - HCC)	1.9 (0.6 to 6.7)	
			PCV use 14,559 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.0
						MCC (LCC - HCC)	5.4 (2.9 to 7.4)
		2041-2065		Drawdown from baseline (m)	No CC	4.0	
					MCC (LCC - HCC)	7.3 (1.3 to 12.7)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	525	
					MCC (LCC - HCC)	398 (697 to 298)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.15% (0.19% to 0.14%)	
			2041-2065	Volume (ML/yr)	No CC	444	
					MCC (LCC - HCC)	297 (1,178 to 175)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.15% (0.41% to 0.14%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,248	
					MCC (LCC - HCC)	3,983 (6,969 to 2,977)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.5% (1.9% to 1.4%)	
			2041-2065	Volume (ML/yr)	No CC	4,443	
					MCC (LCC - HCC)	2,969 (11,785 to 1,747)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	1.5% (4.1% to 1.4%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	10,495			
			MCC (LCC - HCC)	7,966 (13,938 to 5,953)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	3% (4% to 3%)			
	2041-2065	Volume (ML/yr)	No CC	8,886			
			MCC (LCC - HCC)	5,938 (23,569 to 3,494)			
Proportion of recharge (%)	No CC	NA					
	MCC (LCC - HCC)	3% (8% to 3%)					

Table EE-11 Synthesis information – Wetland GDEs-Lower Campaspe Valley WSPA

Assessment area	GMU		LOWER CAMPASPE VALLEY WSPA			
	Representative Suite/bore					
Catchment	Aquifer					
	Water system depth boundary (m below natural surface)					
Environmental metric	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	3.6	
				MCC (LCC - HCC)	4 (1.8 to 5.2)	
	34,733 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.7	
				MCC (LCC - HCC)	3.7 (2.3 to 7.5)	
	PCV use	2021-2040	Drawdown from baseline (m)	No CC	4.1	
				MCC (LCC - HCC)	4.5 (3.4 to 5.7)	
	63,411 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	4.3	
				MCC (LCC - HCC)	5.5 (2.8 to 8.3)	
	Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,927	
				MCC (LCC - HCC)	1,764 (2,333 to 1,459)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.3% (1.2% to 1.4%)		
		2041-2065	Volume (ML/yr)	No CC	1,751	
				MCC (LCC - HCC)	1,462 (2,389 to 1,010)	
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	1.4% (1.6% to 1.6%)			
	Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	19,274	
				MCC (LCC - HCC)	17,643 (23,326 to 14,586)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	13% (12% to 14%)		
		2041-2065	Volume (ML/yr)	No CC	17,508	
				MCC (LCC - HCC)	14,615 (23,888 to 10,099)	
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	14% (16% to 16%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	38,548		
			MCC (LCC - HCC)	35,287 (46,651 to 29,171)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	25% (25% to 27%)			
	2041-2065	Volume (ML/yr)	No CC	35,015		
			MCC (LCC - HCC)	29,230 (47,777 to 20,197)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	29% (31% to 31%)				

Table EE-12 Synthesis information – Wetland GDEs-Lower Ovens GMA

Assessment area	GMU				LOWER OVENS GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 4,933 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.8	
				MCC (LCC - HCC)	1 (-0.3 to 2.3)		
			2041-2065	Drawdown from baseline (m)	No CC	1.2	
				MCC (LCC - HCC)	1.2 (-0.6 to 4.6)		
			PCV use 16,120 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.1 (0.2 to 2.3)	
		2041-2065		Drawdown from baseline (m)	No CC	1.5	
				MCC (LCC - HCC)	2.2 (-0.2 to 4.7)		
		Use at 0.1 metre drawdown		2021-2040	Volume (ML/yr)	No CC	2,393
					MCC (LCC - HCC)	2,042 (9,294 to 1,031)	
			Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)		0.14% (0.49% to 0.09%)		
			2041-2065	Volume (ML/yr)	No CC	2,230	
				MCC (LCC - HCC)	1,038 (- to 508)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	23,931	
				MCC (LCC - HCC)	20,422 (92,942 to 10,308)		
				Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.4% (4.9% to 0.9%)		
			2041-2065	Volume (ML/yr)	No CC	22,296	
				MCC (LCC - HCC)	10,382 (- to 5,082)		
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	47,862	
				MCC (LCC - HCC)	40,844 (185,885 to 20,616)		
				Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	2.8% (9.9% to 1.8%)		
2041-2065	Volume (ML/yr)		No CC	44,591			
	MCC (LCC - HCC)		20,764 (- to 10,163)				
2041-2065	Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	1.80% (- to 1.40%)					

Table EE-13 Synthesis information – Wetland GDEs-Mid Goulburn GMA

Assessment area	GMU				MID GOULBURN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 3,633 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.9	
					MCC (LCC - HCC)	3.5 (1.1 to 4.7)	
			2041-2065	Drawdown from baseline (m)	No CC	3.3	
					MCC (LCC - HCC)	3.3 (1.4 to 7.5)	
		PCV use 26,966 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.2	
					MCC (LCC - HCC)	3.8 (2.6 to 4.8)	
			2041-2065	Drawdown from baseline (m)	No CC	3.9	
					MCC (LCC - HCC)	5 (2.4 to 7.4)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,139	
					MCC (LCC - HCC)	985 (1,342 to 808)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.6% (0.7% to 0.6%)	
				2041-2065	Volume (ML/yr)	No CC	1,102
						MCC (LCC - HCC)	743 (1,311 to 522)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	0.6% (0.7% to 0.6%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,394	
					MCC (LCC - HCC)	9,854 (13,417 to 8,076)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	6% (6% to 6%)	
				2041-2065	Volume (ML/yr)	No CC	11,025
						MCC (LCC - HCC)	7,435 (13,114 to 5,221)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	6% (7% to 6%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	22,788			
			MCC (LCC - HCC)	19,709 (26,835 to 16,153)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	12% (13% to 12%)			
		2041-2065	Volume (ML/yr)	No CC	22,049		
				MCC (LCC - HCC)	14,869 (26,229 to 10,443)		
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	11% (15% to 11%)				

Table EE-14 Synthesis information – Wetland GDEs-Mid Loddon GMA

Assessment area	GMU				MID LODDON GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 17,771 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.0	
					MCC (LCC - HCC)	4 (1 to 5.5)	
			2041-2065	Drawdown from baseline (m)	No CC	3.3	
				MCC (LCC - HCC)	3.3 (1.3 to 10.2)		
		PCV use 28,238 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.3	
					MCC (LCC - HCC)	5.5 (3.4 to 7.3)	
			2041-2065	Drawdown from baseline (m)	No CC	4.6	
				MCC (LCC - HCC)	7.9 (2 to 13)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	916	
					MCC (LCC - HCC)	718 (1,189 to 559)	
				Proportion of recharge (%)	No CC	NA	
				2041-2065	Volume (ML/yr)	No CC	815
					MCC (LCC - HCC)	531 (1,552 to 317)	
					Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.38% (0.79% to 0.36%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	9,165	
					MCC (LCC - HCC)	7,175 (11,887 to 5,590)	
				Proportion of recharge (%)	No CC	NA	
				2041-2065	Volume (ML/yr)	No CC	8,150
					MCC (LCC - HCC)	5,314 (15,520 to 3,172)	
					Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	4% (8% to 4%)		
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	18,329	
					MCC (LCC - HCC)	14,351 (23,775 to 11,179)	
Proportion of recharge (%)	No CC			NA			
	2041-2065		Volume (ML/yr)	No CC	16,300		
			MCC (LCC - HCC)	10,628 (31,040 to 6,343)			
			Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	8% (16% to 7%)				

Table EE-15 Synthesis information – Wetland GDEs-Nepean GMA

Assessment area	GMU				NEPEAN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 2,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6	
					MCC (LCC - HCC)	1.3 (-0.2 to 2.4)	
		2041-2065	Drawdown from baseline (m)	No CC	1.6		
				MCC (LCC - HCC)	1.6 (0.6 to 4.5)		
		PCV use 4,306 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.4	
					MCC (LCC - HCC)	3.1 (1.7 to 4)	
		2041-2065	Drawdown from baseline (m)	No CC	5.8		
				MCC (LCC - HCC)	6.7 (5.1 to 8)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	176	
					MCC (LCC - HCC)	150 (218 to 123)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	78	
					MCC (LCC - HCC)	72 (88 to 62)	
				Proportion of recharge (%)	No CC	NA	
		2041-2065	Volume (ML/yr)	No CC	780		
				MCC (LCC - HCC)	722 (878 to 620)		
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	4% (4% to 5%)		
			Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,759
						MCC (LCC - HCC)	1,497 (2,180 to 1,228)
		Proportion of recharge (%)			No CC	NA	
		2041-2065		Volume (ML/yr)	No CC	780	
					MCC (LCC - HCC)	722 (878 to 620)	
				Proportion of recharge (%)	No CC	NA	
2041-2065	Volume (ML/yr)	No CC	3,518				
		MCC (LCC - HCC)	2,993 (4,360 to 2,456)				
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	13% (16% to 13%)				
	Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,559		
				MCC (LCC - HCC)	1,444 (1,755 to 1,241)		
Proportion of recharge (%)			No CC	NA			
2041-2065		Volume (ML/yr)	No CC	1,559			
			MCC (LCC - HCC)	1,444 (1,755 to 1,241)			
		Proportion of recharge (%)	No CC	NA			
2041-2065	Volume (ML/yr)	No CC	1,559				
		MCC (LCC - HCC)	1,444 (1,755 to 1,241)				
	Proportion of recharge (%)	No CC	NA				
2041-2065	Volume (ML/yr)	No CC	1,559				
		MCC (LCC - HCC)	1,444 (1,755 to 1,241)				
	Proportion of recharge (%)	No CC	NA				
2041-2065	Volume (ML/yr)	No CC	1,559				
		MCC (LCC - HCC)	1,444 (1,755 to 1,241)				
	Proportion of recharge (%)	No CC	NA				

Table EE-16 Synthesis information – Wetland GDEs-Neurapur Zone (West Wimmera)

Assessment area	GMU		NEURAPUR ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 25 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.3 (0.1 to 0.4)
			2041-2065	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.3 (0.1 to 0.7)
		PCV use 200 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	0.7 (0.1 to 1.3)
			2041-2065	Drawdown from baseline (m)	No CC	0.7
					MCC (LCC - HCC)	1.5 (-0.1 to 2.8)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	57
					MCC (LCC - HCC)	36 (153 to 22)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.05% (0.21% to 0.04%)
			2041-2065	Volume (ML/yr)	No CC	22
					MCC (LCC - HCC)	19 (241 to 11)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.04% (0.38% to 0.03%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	568
					MCC (LCC - HCC)	364 (1,529 to 220)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.54% (2.10% to 0.43%)
			2041-2065	Volume (ML/yr)	No CC	222
					MCC (LCC - HCC)	194 (2,413 to 111)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.4% (3.9% to 0.3%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,136		
			MCC (LCC - HCC)	727 (3,057 to 441)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.1% (4.2% to 0.9%)		
	2041-2065	Volume (ML/yr)	No CC	444		
			MCC (LCC - HCC)	389 (4,825 to 221)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.8% (7.7% to 0.6%)			

Table EE-17 Synthesis information – Wetland GDEs-Northern Zone (West Wimmera)

Assessment area	GMU		NORTHERN ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.1 (0 to 0.4)
		1,369 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.2 (0.2 to 0.6)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.2 (-0.1 to 0.6)
		4,068 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.6 (0.1 to 1.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	3,387 (- to 953)
					Proportion of recharge (%)	NA
			2041-2065	Volume (ML/yr)	No CC	459
					MCC (LCC - HCC)	1,033 (3,304 to 565)
					Proportion of recharge (%)	0.57% (1.27% to 0.51%)
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	33,868 (- to 9,525)
					Proportion of recharge (%)	NA
			2041-2065	Volume (ML/yr)	No CC	4,594
					MCC (LCC - HCC)	10,326 (33,042 to 5,649)
					Proportion of recharge (%)	6% (13% to 5%)
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	67,736 (- to 19,051)
					Proportion of recharge (%)	NA
			2041-2065	Volume (ML/yr)	No CC	9,187
MCC (LCC - HCC)	20,651 (66,083 to 11,299)					
Proportion of recharge (%)	11% (25% to 10%)					

Table EE-18 Synthesis information – Wetland GDEs-Shepparton Irrigation GMA

Assessment area	GMU		SHEPPARTON IRRIGATION GMA			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	2.4
					MCC (LCC - HCC)	2.7 (1.1 to 3.7)
		55,314 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.6
					MCC (LCC - HCC)	2.6 (1.1 to 5.8)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.6
					MCC (LCC - HCC)	3 (2 to 4)
		266,555 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.1
					MCC (LCC - HCC)	4 (1.6 to 6.2)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	13,144
					MCC (LCC - HCC)	11,631 (16,443 to 9,289)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	12,037
					MCC (LCC - HCC)	8,938 (17,784 to 6,002)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	131,440
					MCC (LCC - HCC)	116,312 (164,433 to 92,889)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	120,372
					MCC (LCC - HCC)	89,377 (177,839 to 60,018)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	262,879
					MCC (LCC - HCC)	232,624 (328,865 to 185,779)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	240,744
MCC (LCC - HCC)	178,753 (355,677 to 120,035)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	41% (59% to 43%)		

Table EE-19 Synthesis information – Wetland GDEs-South West Limestone GMA

Assessment area	GMU		SOUTH WEST LIMESTONE GMA			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.4
					MCC (LCC - HCC)	0.1 (-0.4 to 0.7)
		30,801 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	0 (-0.3 to 1.8)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.5 (-0.5 to 1.6)
		83,330 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	1.7 (0 to 3.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	22,156 (- to 8,089)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	10,899
					MCC (LCC - HCC)	7,521 (103,801 to 3,940)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	221,563 (- to 80,888)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	108,991
					MCC (LCC - HCC)	75,211 (1,038,011 to 39,404)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	443,126 (- to 161,776)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	217,982
MCC (LCC - HCC)	150,421 (2,076,021 to 78,808)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	11% (120% to 8%)		

Table EE-20 Synthesis information – Wetland GDEs-Southern Zone (West Wimmera)

Assessment area	GMU SOUTHERN ZONE (WEST WIMMERA)					
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 561 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	0.6 (0.2 to 0.6)
			2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.6 (0.2 to 1.3)
		PCV use 2,687 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	1 (0.2 to 1.4)
			2041-2065	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.8 (0.1 to 3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	627
					MCC (LCC - HCC)	380 (1,268 to 284)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.17% (0.49% to 0.19%)
			2041-2065	Volume (ML/yr)	No CC	262
					MCC (LCC - HCC)	224 (1,699 to 139)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.15% (0.82% to 0.15%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,265
					MCC (LCC - HCC)	3,796 (12,679 to 2,837)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	2% (5% to 2%)
			2041-2065	Volume (ML/yr)	No CC	2,618
					MCC (LCC - HCC)	2,242 (16,986 to 1,392)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.5% (8.2% to 1.5%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,531		
			MCC (LCC - HCC)	7,593 (25,357 to 5,674)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	3% (10% to 4%)		
	2041-2065	Volume (ML/yr)	No CC	5,236		
			MCC (LCC - HCC)	4,484 (33,973 to 2,784)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	3% (16% to 3%)			

Table EE-21 Synthesis information – Wetland GDEs-Tarwin GMA

Assessment area	GMU				TARWIN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 11 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.8 (-0.2 to 1.5)
			2041-2065	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1 (0.4 to 3)
		PCV use 49 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.5 (0.4 to 1.8)
			2041-2065	Drawdown from baseline (m)	No CC	2.7
					MCC (LCC - HCC)	3.3 (2.4 to 3.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4
					MCC (LCC - HCC)	3 (6 to 3)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.03% (0.05% to 0.04%)	
			2041-2065	Volume (ML/yr)	No CC	3
					MCC (LCC - HCC)	2 (2 to 1)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.03% (0.02% to 0.02%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	43
					MCC (LCC - HCC)	32 (57 to 28)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.35% (0.52% to 0.36%)	
			2041-2065	Volume (ML/yr)	No CC	30
					MCC (LCC - HCC)	16 (20 to 15)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.21% (0.20% to 0.26%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	85		
			MCC (LCC - HCC)	64 (114 to 56)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.69% (1.04% to 0.72%)			
	2041-2065	Volume (ML/yr)	No CC	60		
			MCC (LCC - HCC)	32 (40 to 30)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	0.41% (0.41% to 0.52%)				

Table EE-22 Synthesis information – Wetland GDEs-Upper Goulburn GMA

Assessment area	GMU				UPPER GOULBURN GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 715 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	0.5 (-1.7 to 1.5)
			2041-2065	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	-0.1 (-0.8 to 2.3)
		PCV use 4,938 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.4
					MCC (LCC - HCC)	3.1 (1 to 5.3)
			2041-2065	Drawdown from baseline (m)	No CC	1.3
					MCC (LCC - HCC)	3.5 (-1.3 to 8.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	321
					MCC (LCC - HCC)	256 (746 to 149)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.02% (0.06% to 0.02%)
			2041-2065	Volume (ML/yr)	No CC	143
					MCC (LCC - HCC)	239 (- to 95)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.03% (- to 0.02%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,210
					MCC (LCC - HCC)	2,556 (7,456 to 1,494)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.24% (0.58% to 0.20%)
			2041-2065	Volume (ML/yr)	No CC	1,430
					MCC (LCC - HCC)	2,391 (- to 946)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.29% (- to 0.23%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,419		
			MCC (LCC - HCC)	5,112 (14,911 to 2,988)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.48% (1.16% to 0.39%)		
	2041-2065	Volume (ML/yr)	No CC	2,860		
			MCC (LCC - HCC)	4,782 (- to 1,892)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.59% (- to 0.46%)			

Table EE-23 Synthesis information – Wetland GDEs-Upper Murray GMA

Assessment area	GMU				UPPER MURRAY GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	1.9 (-0.6 to 2.7)
		510 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.1 (0.2 to 3.6)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	3.0
					MCC (LCC - HCC)	3.3 (2.1 to 4.8)
		3,185 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.1
					MCC (LCC - HCC)	3.4 (0.2 to 6.8)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	155
					MCC (LCC - HCC)	144 (228 to 102)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	3,338
					MCC (LCC - HCC)	149 (1,475 to 74)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,550
					MCC (LCC - HCC)	1,438 (2,281 to 1,025)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	33,382
					MCC (LCC - HCC)	1,488 (14,748 to 744)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,099
					MCC (LCC - HCC)	2,876 (4,561 to 2,049)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	66,763
MCC (LCC - HCC)	2,977 (29,496 to 1,488)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	0.10% (0.79% to 0.08%)		

Table EE-24 Synthesis information – Wetland GDEs-Upper Ovens WSPA

Assessment area	GMU				UPPER OVENS WSPA	
	Representative Suite/bore					
	Aquifer					
Catchment	Water system depth boundary (m below natural surface)					
	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 978 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3
					MCC (LCC - HCC)	-0.1 (-2.9 to 0.9)
			2041-2065	Drawdown from baseline (m)	No CC	-0.9
					MCC (LCC - HCC)	-0.9 (-1.8 to 1.6)
		PCV use 3,498 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
					MCC (LCC - HCC)	1.3 (-0.6 to 3.1)
			2041-2065	Drawdown from baseline (m)	No CC	-1.0
					MCC (LCC - HCC)	0.8 (-3.5 to 5.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,217
					MCC (LCC - HCC)	563 (- to 195)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.06% (- to 0.03%)
			2041-2065	Volume (ML/yr)	No CC	316
					MCC (LCC - HCC)	- (- to 126)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to 0.02%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,173
					MCC (LCC - HCC)	5,629 (- to 1,953)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.59% (- to 0.25%)
			2041-2065	Volume (ML/yr)	No CC	3,161
					MCC (LCC - HCC)	- (- to 1,259)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to 0.22%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	24,345		
			MCC (LCC - HCC)	11,259 (- to 3,907)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.17% (- to 0.51%)		
	2041-2065	Volume (ML/yr)	No CC	6,323		
			MCC (LCC - HCC)	- (- to 2,517)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	- (- to 0.45%)			

Table EE-25 Synthesis information – Wetland GDEs-Wa De Lock GMA

Assessment area	GMU				WA DE LOCK GMA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 6,818 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6	
					MCC (LCC - HCC)	0.7 (0 to 1)	
			2041-2065	Drawdown from baseline (m)	No CC	0.7	
					MCC (LCC - HCC)	0.7 (0.2 to 1.6)	
			PCV use 22,401 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
						MCC (LCC - HCC)	0.8 (0.6 to 0.9)
		2041-2065		Drawdown from baseline (m)	No CC	1.0	
					MCC (LCC - HCC)	1.1 (0.7 to 1.4)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,582	
					MCC (LCC - HCC)	3,434 (4,552 to 2,950)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	7,929	
					MCC (LCC - HCC)	2,324 (3,193 to 1,880)	
				Proportion of recharge (%)	No CC	NA	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	35,824	
					MCC (LCC - HCC)	34,342 (45,519 to 29,496)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	79,293	
					MCC (LCC - HCC)	23,238 (31,932 to 18,803)	
				Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	71,647	
					MCC (LCC - HCC)	68,685 (91,038 to 58,993)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	158,585	
MCC (LCC - HCC)	46,476 (63,864 to 37,606)						
Proportion of recharge (%)	No CC			NA			
			MCC (LCC - HCC)	53% (57% to 57%)			

Table EE-26 Synthesis information – Wetland GDEs-Wandin Yallock GMA

Assessment area	GMU				WANDIN YALLOCK GMA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Wetland GDEs	Avg Use 553 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.5	
					MCC (LCC - HCC)	-0.1 (-1.7 to 0.7)	
			2041-2065	Drawdown from baseline (m)	No CC	-0.3	
					MCC (LCC - HCC)	-0.3 (-1.2 to 2.3)	
			PCV use 2,606 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
						MCC (LCC - HCC)	2.3 (0.5 to 3.9)
		2041-2065		Drawdown from baseline (m)	No CC	2.1	
					MCC (LCC - HCC)	4.1 (0.3 to 7.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	219	
					MCC (LCC - HCC)	153 (466 to 98)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.77% (1.90% to 0.58%)	
			2041-2065	Volume (ML/yr)	No CC	78	
					MCC (LCC - HCC)	83 (315 to 49)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.52% (1.45% to 0.39%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,188	
					MCC (LCC - HCC)	1,525 (4,661 to 976)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	8% (19% to 6%)	
			2041-2065	Volume (ML/yr)	No CC	779	
					MCC (LCC - HCC)	835 (3,152 to 494)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	5% (15% to 4%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,377			
			MCC (LCC - HCC)	3,051 (9,322 to 1,952)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	15% (38% to 12%)			
	2041-2065	Volume (ML/yr)	No CC	1,558			
			MCC (LCC - HCC)	1,669 (6,303 to 988)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	10% (29% to 8%)			

Table EE-27 Synthesis information – Wetland GDEs- Warrion WSPA

Assessment area	GMU				WARRION WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 2,847 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.7 (0.2 to 1.6)
			2041-2065	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.1 (0.6 to 3.1)
		PCV use 10,742 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.9
					MCC (LCC - HCC)	3.4 (1.8 to 5.6)
			2041-2065	Drawdown from baseline (m)	No CC	6.1
					MCC (LCC - HCC)	7.5 (4.8 to 10.5)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	440
					MCC (LCC - HCC)	392 (609 to 260)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.9% (1.2% to 0.8%)
			2041-2065	Volume (ML/yr)	No CC	204
					MCC (LCC - HCC)	179 (247 to 138)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.6% (0.6% to 0.7%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,397
					MCC (LCC - HCC)	3,916 (6,093 to 2,600)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	9% (12% to 8%)
			2041-2065	Volume (ML/yr)	No CC	2,037
					MCC (LCC - HCC)	1,795 (2,467 to 1,378)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	6% (6% to 7%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	8,794		
			MCC (LCC - HCC)	7,832 (12,186 to 5,201)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	18% (23% to 15%)		
	2041-2065	Volume (ML/yr)	No CC	4,074		
			MCC (LCC - HCC)	3,590 (4,933 to 2,755)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	13% (13% to 14%)			

Table EE-28 Synthesis information – Wetland GDEs- West Goulburn GMA

Assessment area	GMU				WEST GOULBURN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 3,509 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.3
					MCC (LCC - HCC)	2.7 (1.1 to 3.7)
			2041-2065	Drawdown from baseline (m)	No CC	2.6
				MCC (LCC - HCC)	2.6 (1.1 to 5.7)	
		PCV use 95,132 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.6
					MCC (LCC - HCC)	3 (2 to 3.9)
			2041-2065	Drawdown from baseline (m)	No CC	3.0
				MCC (LCC - HCC)	3.9 (1.6 to 6.2)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,828
					MCC (LCC - HCC)	4,278 (5,978 to 3,456)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.8% (0.8% to 0.8%)
			2041-2065	Volume (ML/yr)	No CC	4,442
					MCC (LCC - HCC)	3,254 (6,444 to 2,241)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.8% (1.1% to 0.8%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	48,283
					MCC (LCC - HCC)	42,781 (59,784 to 34,562)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	8% (8% to 8%)
			2041-2065	Volume (ML/yr)	No CC	44,420
					MCC (LCC - HCC)	32,537 (64,441 to 22,412)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	8% (11% to 8%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	96,565		
			MCC (LCC - HCC)	85,562 (119,568 to 69,123)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	15% (17% to 16%)		
	2041-2065	Volume (ML/yr)	No CC	88,839		
			MCC (LCC - HCC)	65,074 (128,881 to 44,824)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	15% (22% to 16%)			

Table EE-29 Synthesis information – Wetland GDEs- Wy Yung GMA

Assessment area	GMU				WY YUNG GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 680 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0 (-0.8 to 0.5)
		680 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	0 (-0.5 to 1.1)
		PCV use 5,748 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.4 (0 to 0.7)
		5,748 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.8 (0.2 to 1.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,657
					MCC (LCC - HCC)	1,403 (3,196 to 969)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	957
					MCC (LCC - HCC)	767 (1,521 to 543)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	16,566
					MCC (LCC - HCC)	14,031 (31,964 to 9,687)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	9,571
					MCC (LCC - HCC)	7,672 (15,213 to 5,433)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	33,131
					MCC (LCC - HCC)	28,063 (63,928 to 19,373)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	19,143
MCC (LCC - HCC)	15,343 (30,427 to 10,865)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	194% (267% to 258%)		

Table EE-30 Synthesis information – Wetland GDEs-Yangery WSPA

Assessment area	GMU				YANGERY WSPA	
	Representative Suite/bore					
Aquifer						
Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Wetland GDEs	Avg Use 3,425 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-1.4
					MCC (LCC - HCC)	-1.1 (-1.7 to -0.5)
		2041-2065	Drawdown from baseline (m)	No CC	-1.0	
				MCC (LCC - HCC)	-1 (-1.3 to 0.4)	
		PCV use 12,123 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-1.0
					MCC (LCC - HCC)	-0.6 (-1.5 to 0.5)
		2041-2065	Drawdown from baseline (m)	No CC	0.2	
				MCC (LCC - HCC)	1 (-0.2 to 2.2)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	- (- to 2,862)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to 8%)	
			2041-2065	Volume (ML/yr)	No CC	753
					MCC (LCC - HCC)	1,287 (6,968 to 723)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	3% (14% to 3%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	- (- to 28,619)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to 77%)	
			2041-2065	Volume (ML/yr)	No CC	7,531
					MCC (LCC - HCC)	12,873 (69,677 to 7,225)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	33% (143% to 25%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-		
			MCC (LCC - HCC)	- (- to 57,239)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	- (- to 153%)			
	2041-2065	Volume (ML/yr)	No CC	15,061		
			MCC (LCC - HCC)	25,746 (139,354 to 14,450)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	67% (286% to 51%)				

The image features a landscape photograph of a riverbank with trees and a blue overlay on the left side. The text is positioned on the blue overlay. The background shows a river with a sandy bank and a line of trees in the distance under a clear sky.

Appendix FF
Summary of change in
groundwater elevation for
GMUs - Wetland GDEs

Table FF-1 Estimated average change in groundwater elevation from Baseline (1950-1974) for high value wetland GDEs by GMU and scenario - Historic and 2021-2040- noCC -current climate (no climate change), LCC - low climate change, MCC - medium climate change, HCC - high climate change.

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Barnawartha GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Barnawartha GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Barnawartha GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Barnawartha GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Big Desert Zone (West Wimmera)	No use	NA	NA	NA	NA	NA	NA	NA	NA
Big Desert Zone (West Wimmera)	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Big Desert Zone (West Wimmera)	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Big Desert Zone (West Wimmera)	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Broken GMA	No use	-1.63	-1.22	-2.10	-4.04	-2.61	-0.59	-4.00	-8.10
Broken GMA	Current use	-1.25	-0.34	-1.71	-2.76	-1.64	-0.15	-1.64	-5.22
Broken GMA	PCV use	-1.28	-0.85	-1.73	-2.79	-1.59	-0.20	-2.66	-5.08
Broken GMA	200% PCV use	-1.36	-0.95	-1.81	-2.87	-2.33	-0.27	-2.70	-5.12
Bungaree GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Bungaree GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Bungaree GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Bungaree GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Cardigan GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Cardigan GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Cardigan GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Cardigan GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Central Victorian Mineral Springs GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Central Victorian Mineral Springs GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Central Victorian Mineral Springs GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Central Victorian Mineral Springs GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Colongulac GMA	No use	-0.46	-0.17	-1.16	-1.31	-1.10	-0.51	-2.26	-3.00

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Colongulac GMA	Current use	0.23	0.62	-0.43	-1.60	-0.55	0.02	-0.55	-3.35
Colongulac GMA	PCV use	-0.03	1.04	-0.96	-3.12	-1.29	-0.14	-3.12	-5.92
Colongulac GMA	200% PCV use	0.00	1.08	-0.92	-3.07	-3.71	0.10	-2.88	-5.66
Denison GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Denison GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Denison GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Denison GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Deutgam WSPA	No use	-0.06	0.74	-0.59	-0.72	-0.36	0.60	-1.17	-1.40
Deutgam WSPA	Current use	-0.52	-0.02	-0.90	-1.43	-0.90	-0.37	-0.90	-2.46
Deutgam WSPA	PCV use	-1.79	-1.20	-2.40	-3.40	-2.58	-1.52	-3.85	-5.90
Deutgam WSPA	200% PCV use	-2.48	-1.91	-3.08	-4.09	-4.57	-2.93	-5.21	-7.28
Eildon GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Eildon GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Eildon GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Eildon GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Frankston GMA	No use	-0.16	0.48	0.11	-0.52	-0.16	0.54	-0.14	-1.15
Frankston GMA	Current use	-0.92	-0.19	-1.37	-2.27	-1.36	-0.56	-1.36	-3.89
Frankston GMA	PCV use	-1.82	-1.19	-2.43	-3.42	-2.79	-1.88	-4.02	-5.93
Frankston GMA	200% PCV use	-2.61	-1.99	-3.24	-4.19	0.16	-3.42	-5.57	-7.43
Gellibrand GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Gellibrand GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Gellibrand GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gellibrand GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Glenelg WSPA	No use	0.96	-0.73	-1.10	-1.14	0.71	-0.24	-2.42	-3.86

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Glenelg WSPA	Current use	0.04	-0.06	-0.27	-0.50	-0.07	0.09	-0.07	-1.21
Glenelg WSPA	PCV use	-0.23	-0.06	-0.71	-1.18	-0.55	-0.15	-1.52	-2.56
Glenelg WSPA	200% PCV use	-0.53	-0.36	-1.01	-1.47	-0.73	-0.59	-1.97	-2.98
Glenormiston GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	No use	-0.89	-0.57	-1.15	-1.43	-1.33	-0.63	-1.92	-2.61
Gymbowen Zone (West Wimmera)	Current use	-0.61	-0.38	-0.85	-0.99	-0.90	-0.51	-0.90	-1.71
Gymbowen Zone (West Wimmera)	PCV use	-0.66	-0.43	-1.01	-1.38	-1.10	-0.52	-1.72	-2.57
Gymbowen Zone (West Wimmera)	200% PCV use	-0.82	-0.59	-1.18	-1.54	-1.88	-0.75	-1.95	-2.81
Hawkesdale GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Hawkesdale GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Hawkesdale GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Hawkesdale GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Heywood GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Heywood GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Heywood GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Heywood GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Jan Juc GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Jan Juc GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Jan Juc GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Jan Juc GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Kiewa GMA	No use	-2.23	-0.43	-1.80	-4.93	-5.34	-2.60	-4.50	-10.72
Kiewa GMA	Current use	-1.90	0.82	-1.99	-2.88	-0.97	-0.11	-0.97	-3.32
Kiewa GMA	PCV use	-3.36	-1.87	-3.90	-6.08	-0.87	2.08	-2.95	-8.35
Kiewa GMA	200% PCV use	-2.95	-1.40	-3.37	-5.63	1.51	3.75	-1.19	-6.69
Koo Wee Rup WSPA	No use	-0.24	0.42	-0.47	-1.00	-0.54	0.38	-1.14	-2.24
Koo Wee Rup WSPA	Current use	-0.93	-0.19	-1.68	-2.64	-1.64	-0.80	-1.64	-4.56

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Koo Wee Rup WSPA	PCV use	-1.54	-0.75	-2.43	-3.63	-2.35	-1.29	-3.90	-6.04
Koo Wee Rup WSPA	200% PCV use	-2.21	-1.44	-3.12	-4.30	-2.80	-2.26	-4.84	-6.98
Lancefield GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Lancefield GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Lancefield GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Lancefield GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Leongatha GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Leongatha GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Leongatha GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Leongatha GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Little Desert Zone (West Wimmera)	No use	-0.72	-0.47	-0.38	-1.24	-0.97	-0.26	-1.28	-2.82
Little Desert Zone (West Wimmera)	Current use	-0.07	0.04	0.05	-0.16	-0.13	0.04	-0.13	-0.42
Little Desert Zone (West Wimmera)	PCV use	-0.19	0.17	-0.41	-1.12	-0.44	0.23	-1.15	-2.46
Little Desert Zone (West Wimmera)	200% PCV use	-0.43	-0.07	-0.65	-1.35	-2.17	-0.04	-1.43	-2.72
Loddon Highlands WSPA	No use	-0.44	0.03	-1.33	-2.49	-1.20	-0.22	-2.98	-5.21
Loddon Highlands WSPA	Current use	-1.57	-0.41	-2.36	-3.54	-1.87	-0.64	-1.87	-6.69
Loddon Highlands WSPA	PCV use	-4.00	-2.92	-5.36	-7.37	-3.97	-1.26	-7.35	-12.71
Loddon Highlands WSPA	200% PCV use	-4.83	-3.81	-6.27	-8.22	-6.08	-2.42	-8.55	-13.82
Lower Campaspe Valley WSPA	No use	-2.19	-1.42	-2.92	-4.80	-2.97	-0.56	-5.07	-9.86
Lower Campaspe Valley WSPA	Current use	-3.62	-1.75	-4.05	-5.20	-3.74	-2.30	-3.74	-7.52
Lower Campaspe Valley WSPA	PCV use	-4.06	-3.40	-4.51	-5.68	-4.35	-2.82	-5.49	-8.30
Lower Campaspe Valley WSPA	200% PCV use	-5.70	-5.02	-6.16	-7.26	-6.40	-5.00	-7.73	-10.43
Lower Ovens GMA	No use	-1.12	-0.39	-0.99	-3.37	-2.01	0.19	-2.60	-6.80
Lower Ovens GMA	Current use	-0.83	0.28	-0.99	-2.27	-1.21	0.64	-1.21	-4.60
Lower Ovens GMA	PCV use	-0.94	-0.21	-1.11	-2.31	-1.51	0.25	-2.25	-4.67
Lower Ovens GMA	200% PCV use	-1.12	-0.38	-1.30	-2.48	-0.90	-0.11	-2.65	-5.04
Merrimu GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Merrimu GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Newlingrook GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Northern Zone (West Wimmera)	No use	-0.58	-0.40	-0.67	-1.11	-0.92	-0.57	-1.09	-1.50
Northern Zone (West Wimmera)	Current use	0.08	0.01	-0.10	-0.39	-0.24	-0.19	-0.24	-0.57
Northern Zone (West Wimmera)	PCV use	0.07	0.14	-0.16	-0.64	-0.32	-0.14	-0.60	-1.10
Northern Zone (West Wimmera)	200% PCV use	0.00	0.08	-0.21	-0.71	-2.06	-0.21	-0.67	-1.19
Nullawarre WSPA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Nullawarre WSPA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Nullawarre WSPA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Nullawarre WSPA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Shepparton Irrigation GMA	No use	-2.63	-1.78	-3.27	-5.80	-3.85	-0.73	-5.86	-11.73
Shepparton Irrigation GMA	Current use	-2.35	-1.10	-2.74	-3.72	-2.58	-1.11	-2.58	-5.83
Shepparton Irrigation GMA	PCV use	-2.64	-2.05	-3.04	-3.99	-3.05	-1.60	-3.96	-6.24
Shepparton Irrigation GMA	200% PCV use	-3.55	-2.95	-3.97	-4.86	-3.79	-2.87	-5.27	-7.47
South West Limestone GMA	No use	0.76	-0.36	-0.80	-0.95	0.43	-0.23	-1.85	-2.97
South West Limestone GMA	Current use	0.35	0.39	-0.11	-0.73	-0.01	0.25	-0.01	-1.80
South West Limestone GMA	PCV use	0.10	0.53	-0.52	-1.57	-0.57	-0.03	-1.75	-3.27
South West Limestone GMA	200% PCV use	-0.07	0.36	-0.69	-1.73	-1.68	-0.24	-1.97	-3.47
Southern Zone (West Wimmera)	No use	-0.78	-0.65	-1.37	-1.50	-1.19	-0.48	-2.51	-3.56
Southern Zone (West Wimmera)	Current use	-0.43	-0.18	-0.63	-0.62	-0.57	-0.21	-0.57	-1.30
Southern Zone (West Wimmera)	PCV use	-0.54	-0.19	-0.99	-1.40	-0.85	-0.08	-1.80	-2.99
Southern Zone (West Wimmera)	200% PCV use	-0.76	-0.42	-1.22	-1.62	-2.10	-0.34	-2.06	-3.24
Strathbogie GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Strathbogie GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Strathbogie GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Strathbogie GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Tarwin GMA	No use	-0.11	0.08	0.01	-0.44	-0.03	0.27	-0.23	-1.16
Tarwin GMA	Current use	-0.33	0.21	-0.84	-1.48	-1.02	-0.36	-1.02	-2.99
Tarwin GMA	PCV use	-0.89	-0.45	-1.45	-1.82	-2.72	-2.44	-3.34	-3.62

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Tarwin GMA	200% PCV use	-2.42	-1.97	-3.02	-3.32	-2.62	-4.99	-5.97	-6.14
Upper Goulburn GMA	No use	-1.87	-1.26	-1.81	-3.78	-4.30	-3.20	-3.99	-7.74
Upper Goulburn GMA	Current use	-0.37	1.74	-0.53	-1.48	0.05	0.80	0.05	-2.31
Upper Goulburn GMA	PCV use	-2.37	-1.04	-3.05	-5.28	-1.31	1.33	-3.48	-8.61
Upper Goulburn GMA	200% PCV use	-2.65	-1.27	-3.28	-5.55	-8.01	1.36	-3.45	-8.63
Upper Murray GMA	No use	-1.39	0.41	-1.17	-3.18	-3.10	-0.72	-2.71	-6.75
Upper Murray GMA	Current use	-1.78	0.58	-1.89	-2.74	-1.15	-0.18	-1.15	-3.61
Upper Murray GMA	PCV use	-3.03	-2.07	-3.33	-4.77	-2.05	-0.15	-3.37	-6.80
Upper Murray GMA	200% PCV use	-3.51	-2.52	-3.75	-5.21	0.88	-0.45	-3.60	-7.07
Upper Ovens WSPA	No use	-1.75	-0.60	-1.60	-3.75	-4.20	-2.39	-3.67	-8.31
Upper Ovens WSPA	Current use	0.32	2.87	0.06	-0.85	0.87	1.75	0.87	-1.60
Upper Ovens WSPA	PCV use	-0.69	0.60	-1.28	-3.15	1.00	3.50	-0.83	-5.33
Upper Ovens WSPA	200% PCV use	-0.43	0.90	-0.95	-2.85	-3.43	4.66	0.37	-4.17
Wa De Lock GMA	No use	-0.25	0.05	-0.24	-0.77	-0.41	0.13	-0.65	-1.63
Wa De Lock GMA	Current use	-0.56	0.01	-0.66	-1.00	-0.67	-0.24	-0.67	-1.56
Wa De Lock GMA	PCV use	-0.75	-0.58	-0.78	-0.94	-1.00	-0.74	-1.12	-1.44
Wa De Lock GMA	200% PCV use	-1.13	-0.96	-1.17	-1.31	-0.11	-1.38	-1.79	-2.08
Wandin Yallock GMA	No use	-0.27	0.60	-0.59	-0.87	-0.74	0.11	-1.22	-1.66
Wandin Yallock GMA	Current use	0.50	1.67	0.12	-0.73	0.28	1.20	0.28	-2.25
Wandin Yallock GMA	PCV use	-1.45	-0.46	-2.28	-3.85	-2.12	-0.33	-4.11	-7.59
Wandin Yallock GMA	200% PCV use	-2.33	-1.36	-3.18	-4.73	-7.41	-2.05	-5.85	-9.28
Warrion WSPA	No use	-0.75	-0.23	-0.74	-1.68	-1.42	-0.51	-1.98	-3.65
Warrion WSPA	Current use	-0.52	-0.18	-0.65	-1.63	-1.09	-0.65	-1.09	-3.05
Warrion WSPA	PCV use	-2.86	-1.75	-3.36	-5.65	-6.10	-4.82	-7.50	-10.45
Warrion WSPA	200% PCV use	-4.69	-3.57	-5.19	-7.43	-10.17	-8.55	-11.28	-14.14
West Goulburn GMA	No use	-2.62	-1.74	-3.26	-5.82	-3.84	-0.69	-5.87	-11.78
West Goulburn GMA	Current use	-2.34	-1.09	-2.72	-3.67	-2.55	-1.10	-2.55	-5.70
West Goulburn GMA	PCV use	-2.63	-2.02	-3.03	-3.95	-3.03	-1.58	-3.94	-6.16
West Goulburn GMA	200% PCV use	-3.57	-2.95	-3.99	-4.84	-3.79	-2.88	-5.30	-7.43

GMU	Pumping scenario	Estimated average change in annual maximum watertable elevation at wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Wy Yung GMA	No use	-0.18	0.39	-0.22	-0.77	-0.39	0.36	-0.68	-1.57
Wy Yung GMA	Current use	0.11	0.84	-0.04	-0.48	0.02	0.54	0.02	-1.07
Wy Yung GMA	PCV use	-0.29	-0.03	-0.38	-0.68	-0.56	-0.19	-0.79	-1.27
Wy Yung GMA	200% PCV use	-0.73	-0.48	-0.83	-1.12	-1.23	-0.88	-1.49	-1.96
Yangery WSPA	No use	0.44	0.35	-0.52	-0.32	0.23	0.06	-0.97	-0.86
Yangery WSPA	Current use	1.40	1.66	1.12	0.46	0.97	1.30	0.97	-0.37
Yangery WSPA	PCV use	1.01	1.52	0.55	-0.48	-0.23	0.20	-1.04	-2.19
Yangery WSPA	200% PCV use	0.59	1.10	0.10	-0.90	-4.11	-0.72	-2.01	-3.11

The image features a scenic view of a river or stream. On the right side, a large, light-colored tree trunk with sparse foliage leans over the water. The water is calm, reflecting the sky and the surrounding trees. In the background, a dense line of trees borders the water. The left side of the image is partially obscured by a semi-transparent blue overlay. The text is positioned on this blue area.

Appendix GG
Use-drawdown relationships for
Wetland GDEs

Table GG-1 Relationship between change in elevation of the watertable (as average annual maximum groundwater elevation) at wetland GDEs and groundwater use by GMU, as the coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0.

GMU	Relationship between change in elevation of the watertable at wetland GDEs and groundwater use by GMU <i>Coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0</i>							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Barnawartha GMA	NA	NA	NA	NA	NA	NA	NA	NA
Big Desert Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Broken GMA	-0.000248	-0.000165	-0.000332	-0.000531	-0.000385	-0.000045	-0.000491	-0.000956
Bungaree GMA	NA	NA	NA	NA	NA	NA	NA	NA
Cardigan GMA	NA	NA	NA	NA	NA	NA	NA	NA
Central Victorian Mineral Springs GMA	NA	NA	NA	NA	NA	NA	NA	NA
Colongulac GMA	0.000006	0.000387	-0.000335	-0.001114	-0.001015	0.000008	-0.001035	-0.002084
Denison GMA	NA	NA	NA	NA	NA	NA	NA	NA
Deutgam WSPA	-0.000319	-0.000234	-0.000405	-0.000551	-0.000552	-0.000347	-0.000671	-0.000971
Eildon GMA	NA	NA	NA	NA	NA	NA	NA	NA
Frankston GMA	-0.002139	-0.001555	-0.002708	-0.003601	-0.000778	-0.002632	-0.004590	-0.006339
Gellibrand GMA	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	NA	NA	NA	NA	NA	NA	NA	NA
Glenelg WSPA	-0.000011	-0.000007	-0.000023	-0.000035	-0.000017	-0.000011	-0.000046	-0.000074
Glenormiston GMA	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	-0.007852	-0.005454	-0.011419	-0.014911	-0.015911	-0.006860	-0.018174	-0.027177
Hawkesdale GMA	NA	NA	NA	NA	NA	NA	NA	NA
Heywood GMA	NA	NA	NA	NA	NA	NA	NA	NA
Jan Juc GMA	NA	NA	NA	NA	NA	NA	NA	NA
Kiewa GMA	-0.000670	-0.000310	-0.000767	-0.001244	0.000133	0.000660	-0.000384	-0.001554
Koo Wee Rup WSPA	-0.000107	-0.000063	-0.000157	-0.000222	-0.000144	-0.000103	-0.000241	-0.000365
Lancefield GMA	NA	NA	NA	NA	NA	NA	NA	NA
Leongatha GMA	NA	NA	NA	NA	NA	NA	NA	NA
Little Desert Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Loddon Highlands WSPA	-0.000191	-0.000143	-0.000251	-0.000336	-0.000225	-0.000085	-0.000337	-0.000572
Lower Campaspe Valley WSPA	-0.000052	-0.000043	-0.000057	-0.000069	-0.000057	-0.000042	-0.000068	-0.000099

Lower Ovens GMA	-0.000042	-0.000011	-0.000049	-0.000097	-0.000045	0.000003	-0.000096	-0.000197
Merrimu GMA	NA	NA	NA	NA	NA	NA	NA	NA
Mid Goulburn GMA	-0.000088	-0.000075	-0.000101	-0.000124	-0.000091	-0.000076	-0.000135	-0.000192
Mid Loddon GMA	-0.000109	-0.000084	-0.000139	-0.000179	-0.000123	-0.000064	-0.000188	-0.000315
Moe GMA	NA	NA	NA	NA	NA	NA	NA	NA
Moorabbin GMA	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	-0.000569	-0.000459	-0.000668	-0.000814	-0.001283	-0.001139	-0.001385	-0.001612
Neuarpur Zone (West Wimmera)	-0.001760	-0.000654	-0.002750	-0.004536	-0.004504	-0.000414	-0.005145	-0.009035
Newlingrook GMA	NA	NA	NA	NA	NA	NA	NA	NA
Northern Zone (West Wimmera)	0.000004	0.000015	-0.000030	-0.000105	-0.000218	-0.000030	-0.000097	-0.000177
Nullawarre WSPA	NA	NA	NA	NA	NA	NA	NA	NA
Shepparton Irrigation GMA	-0.000008	-0.000006	-0.000009	-0.000011	-0.000008	-0.000006	-0.000011	-0.000017
South West Limestone GMA	0.000000	0.000003	-0.000005	-0.000012	-0.000009	-0.000001	-0.000013	-0.000025
Southern Zone (West Wimmera)	-0.000160	-0.000079	-0.000263	-0.000352	-0.000382	-0.000059	-0.000446	-0.000718
Strathbogie GMA	NA	NA	NA	NA	NA	NA	NA	NA
Tarwin GMA	-0.023495	-0.017522	-0.031071	-0.035540	-0.033073	-0.050485	-0.062721	-0.066942
Upper Goulburn GMA	-0.000312	-0.000134	-0.000391	-0.000669	-0.000699	0.000168	-0.000418	-0.001057
Upper Murray GMA	-0.000645	-0.000438	-0.000695	-0.000976	-0.000030	-0.000068	-0.000672	-0.001344
Upper Ovens WSPA	-0.000082	0.000180	-0.000178	-0.000512	-0.000316	0.000750	0.000009	-0.000795
Wa De Lock GMA	-0.000028	-0.000022	-0.000029	-0.000034	-0.000013	-0.000031	-0.000043	-0.000053
Wandin Yallock GMA	-0.000457	-0.000215	-0.000656	-0.001024	-0.001284	-0.000317	-0.001198	-0.002025
Warrion WSPA	-0.000227	-0.000164	-0.000255	-0.000385	-0.000491	-0.000405	-0.000557	-0.000726
West Goulburn GMA	-0.000021	-0.000017	-0.000023	-0.000029	-0.000023	-0.000016	-0.000031	-0.000045
Wy Yung GMA	-0.000060	-0.000031	-0.000071	-0.000103	-0.000104	-0.000066	-0.000130	-0.000184
Yangery WSPA	0.000042	0.000068	0.000017	-0.000035	-0.000133	-0.000014	-0.000078	-0.000138

The image features a landscape photograph of a river with trees, overlaid with a blue semi-transparent rectangle. The text is positioned on the left side of the blue rectangle. The background shows a river with a sandy bank and a line of trees in the distance, with a large tree trunk in the foreground on the right.

Appendix HH

Terrestrial GDEs by GMU

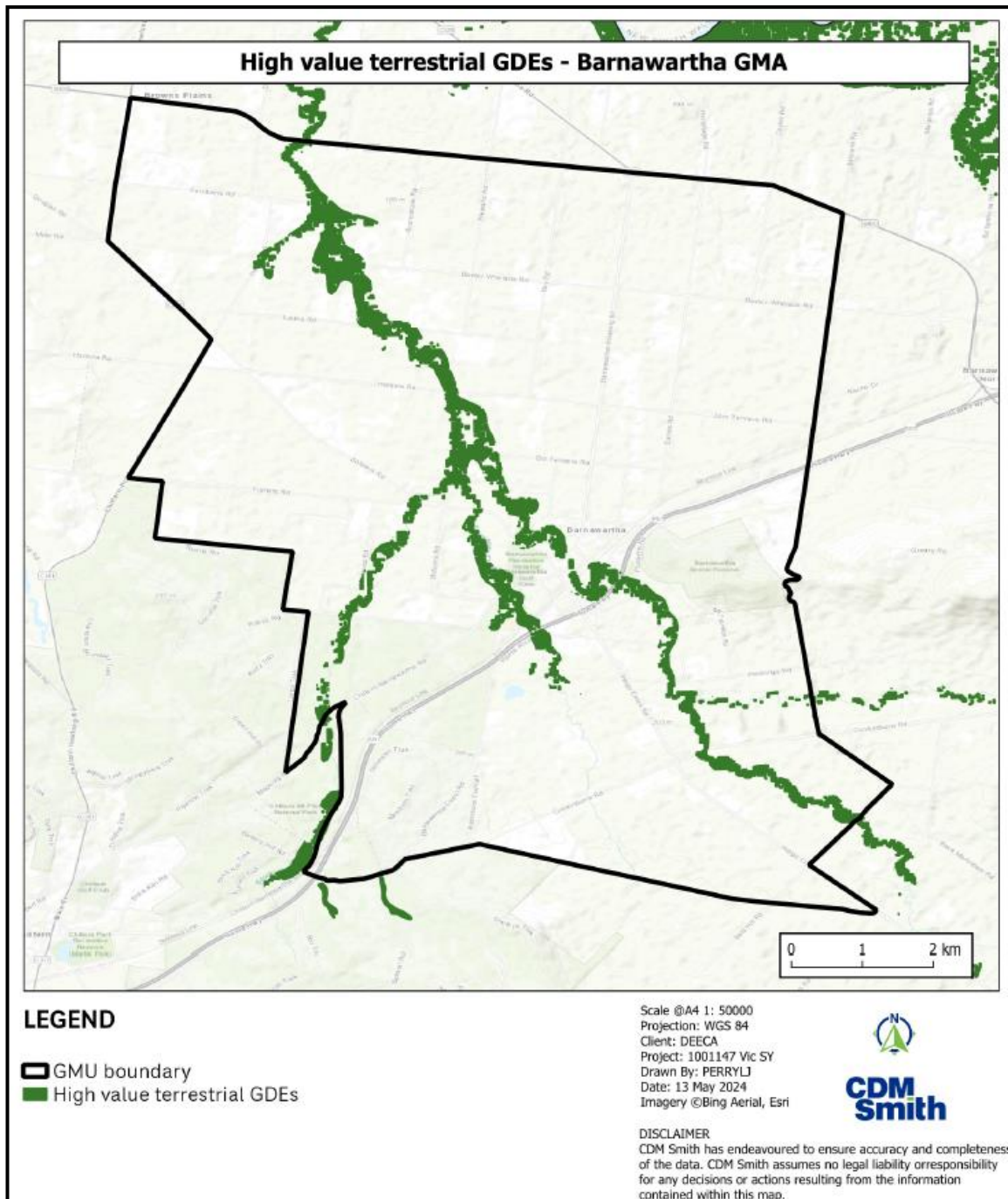


Figure HH-1 Terrestrial GDEs mapped within the Barnawartha GMA

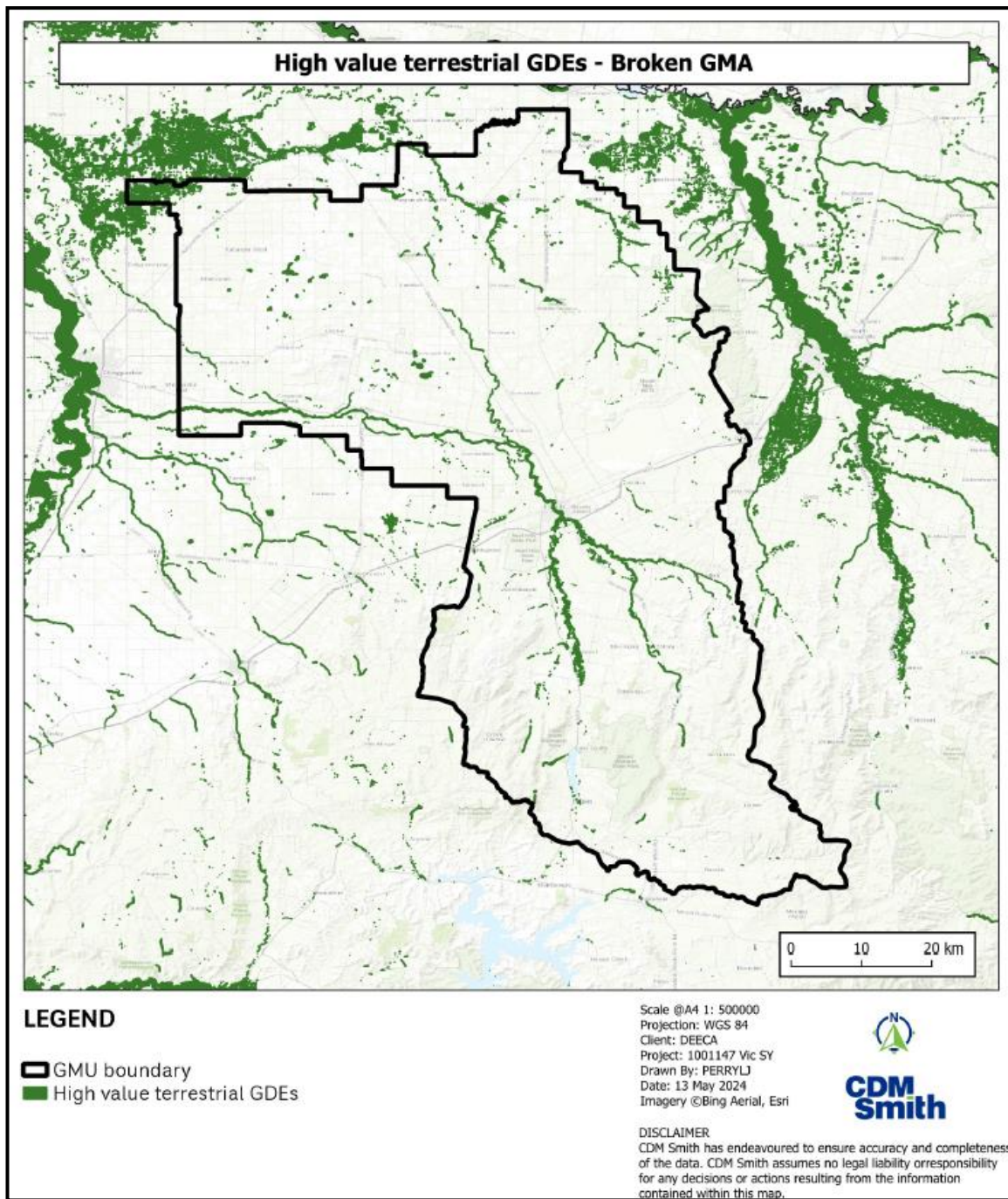


Figure HH-2 Terrestrial GDEs mapped within the Broken GMA

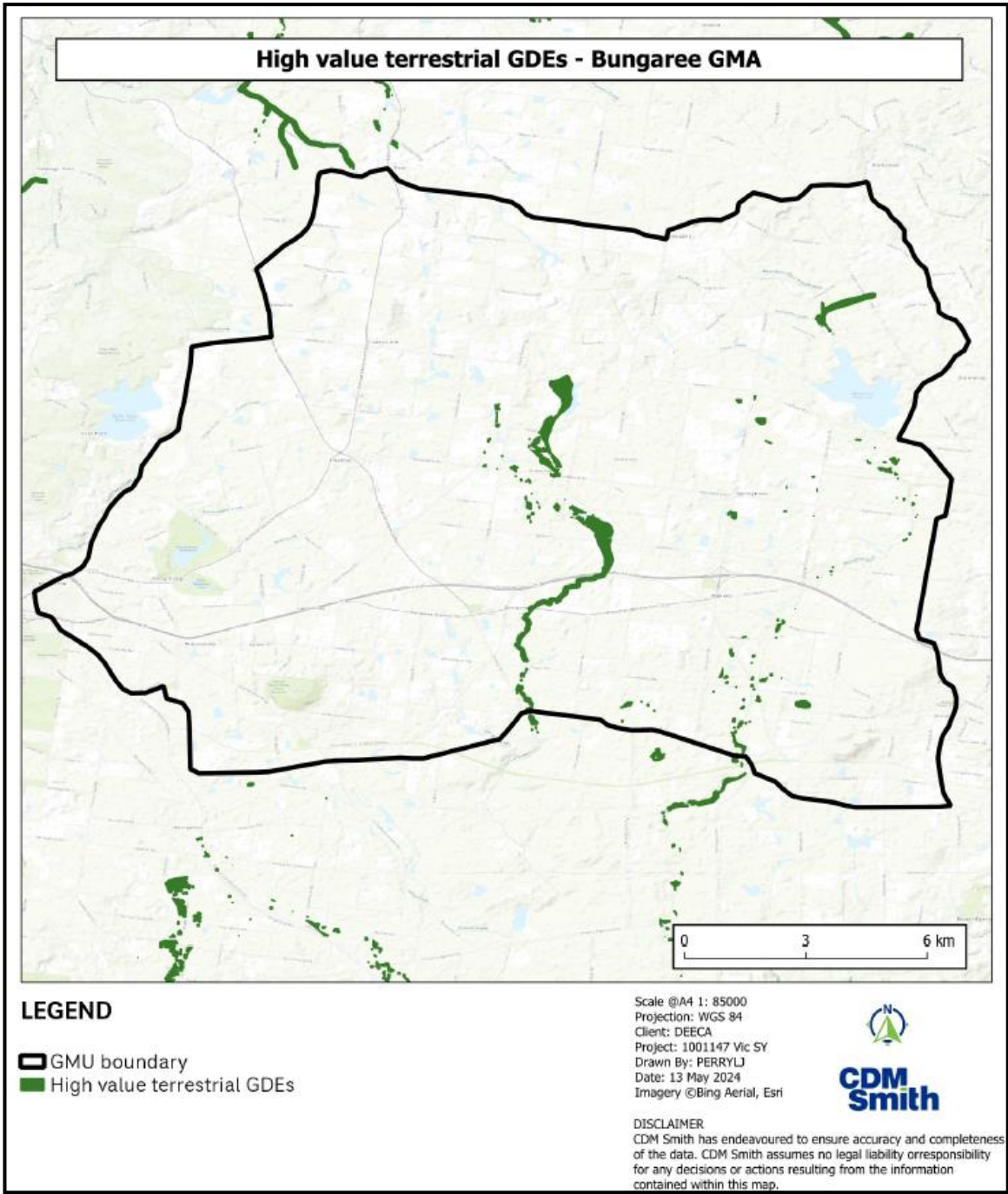


Figure HH-3 Terrestrial GDEs mapped within the Bungaree GMA

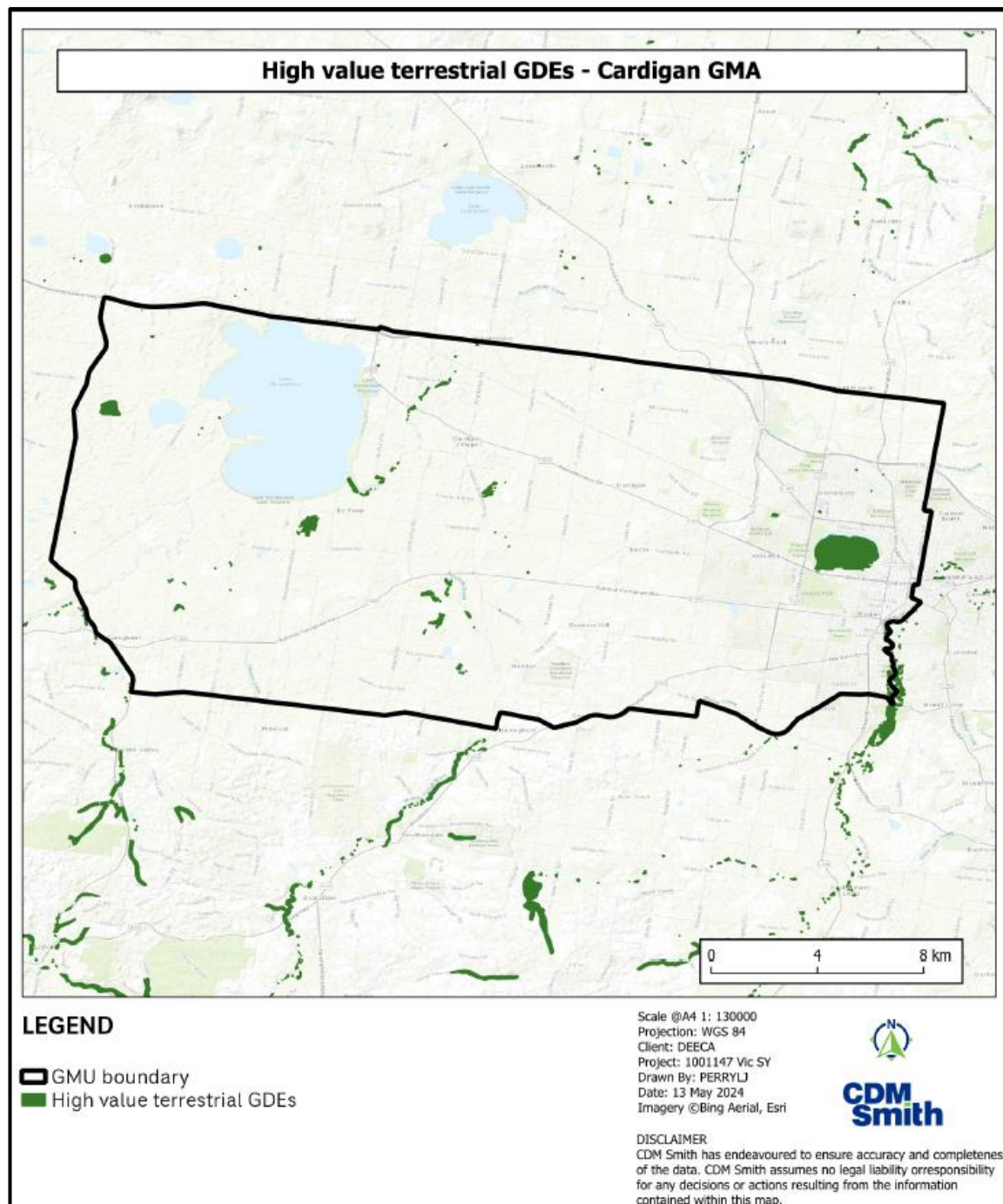


Figure HH-4 Terrestrial GDEs mapped within the Cardigan GMA

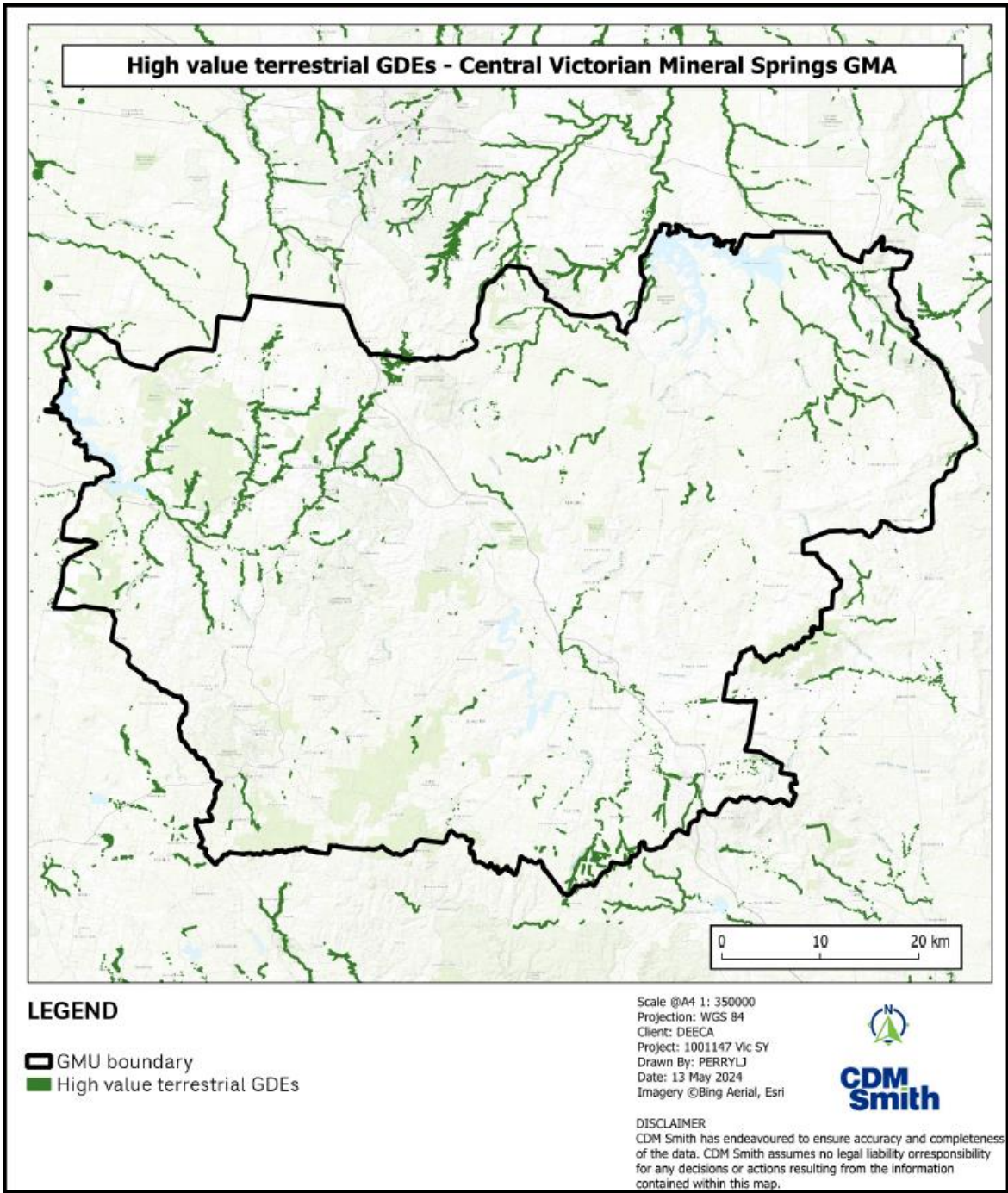


Figure HH-5 Terrestrial GDEs mapped within the Central Victorian Mineral Springs GMA

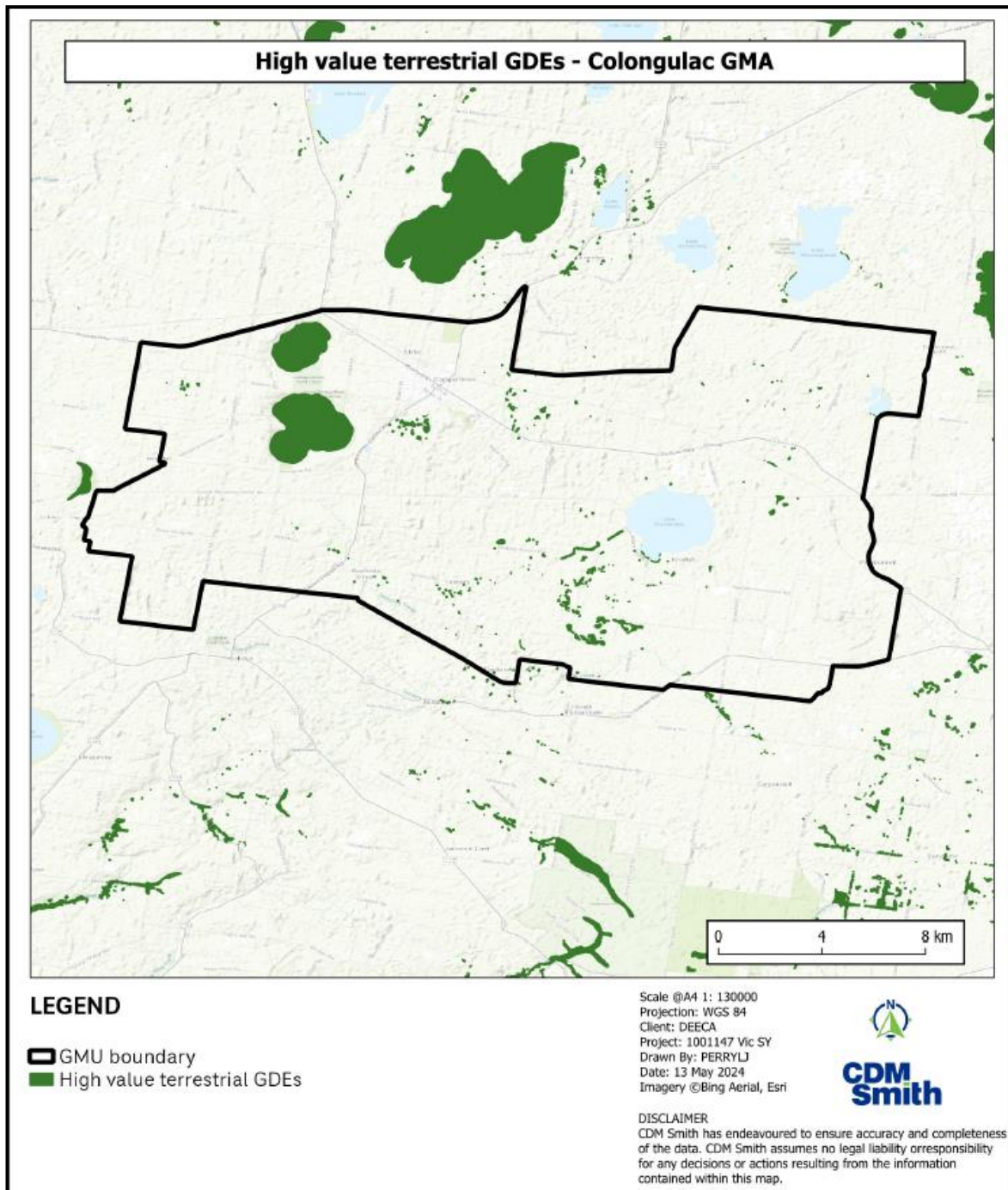


Figure HH-6 Terrestrial GDEs mapped within the Colongulac GMA

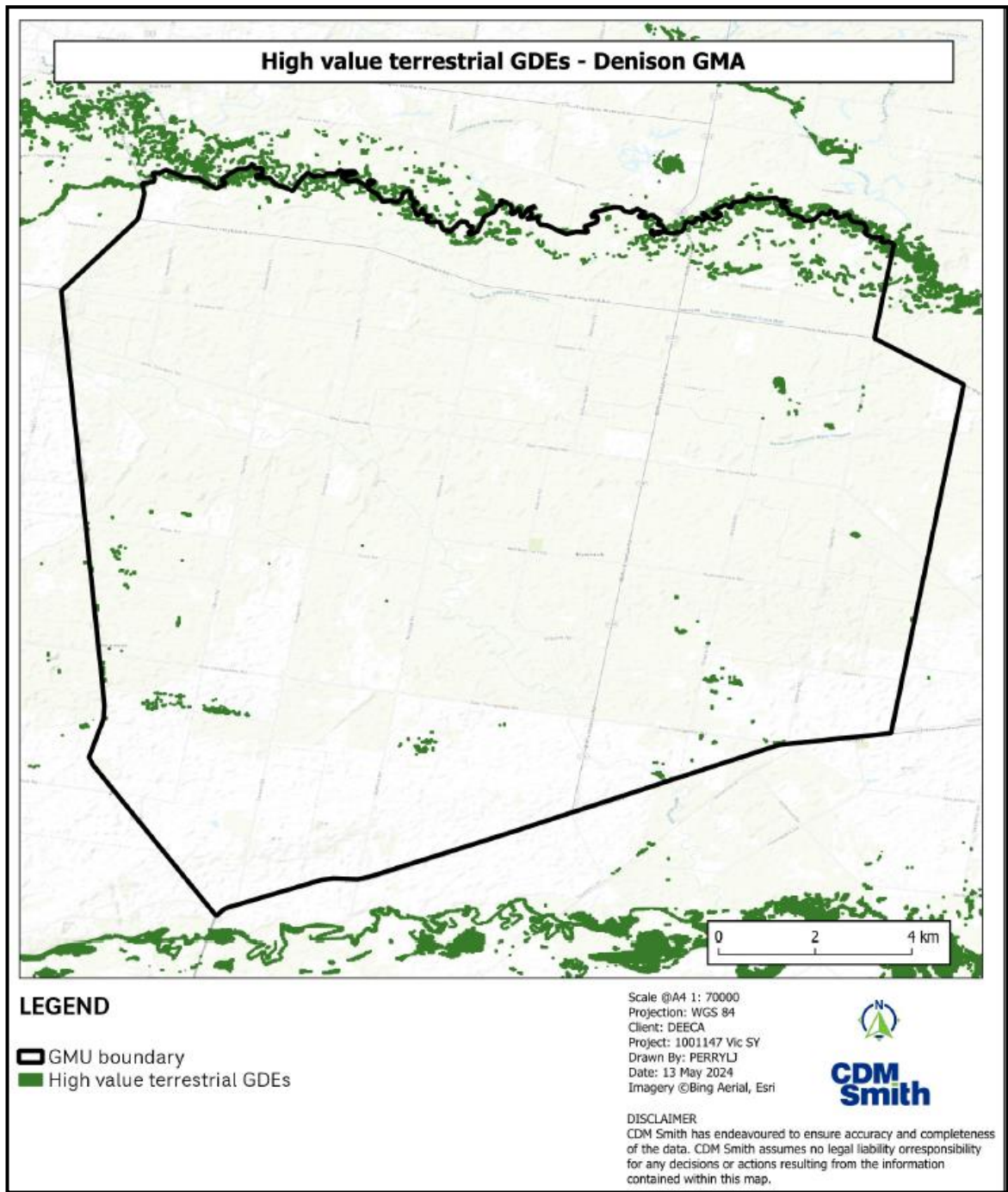


Figure HH-7 Terrestrial GDEs mapped within the Denison GMA

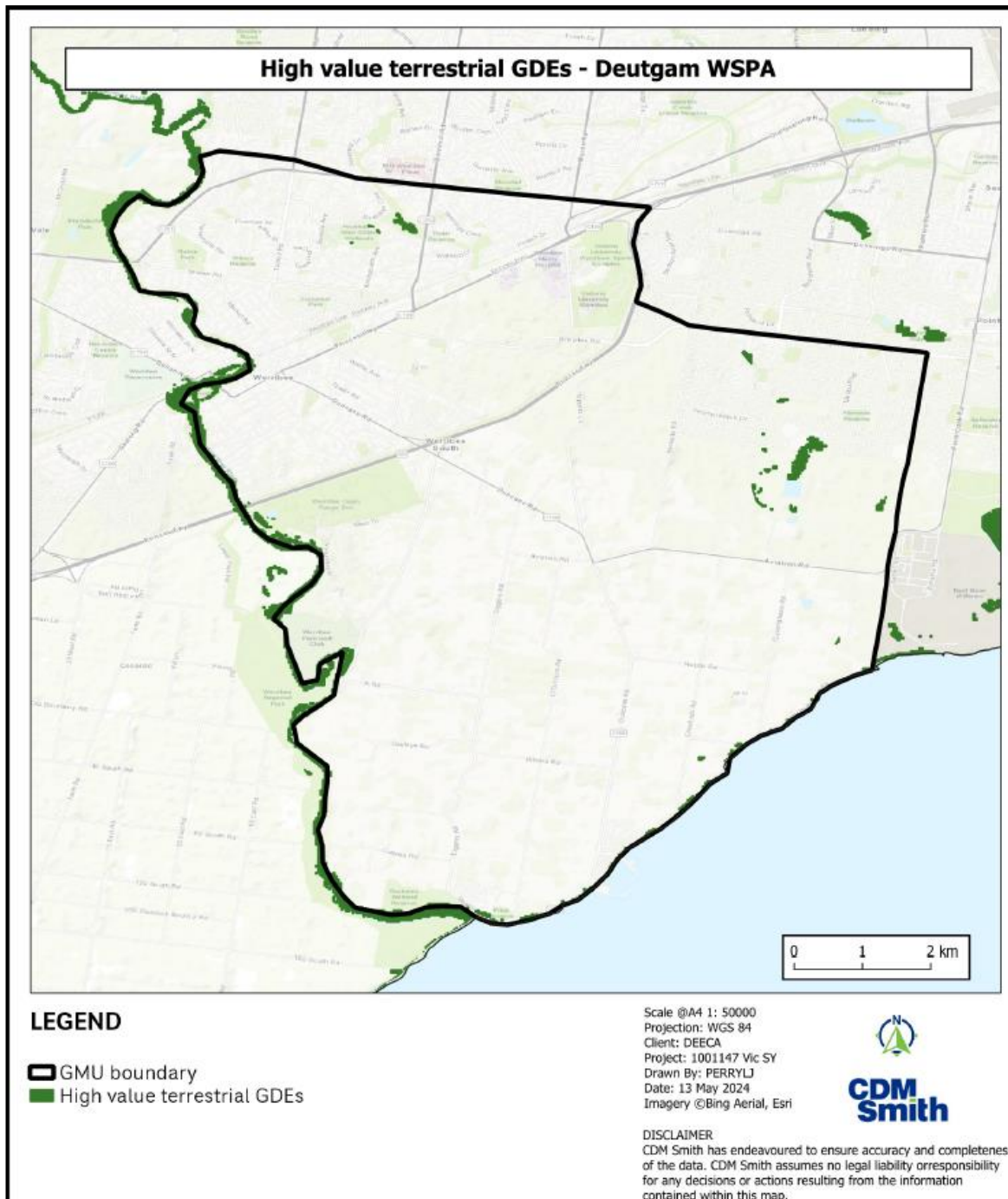


Figure HH-8 Terrestrial GDEs mapped within the Deutgam WSPA GMA

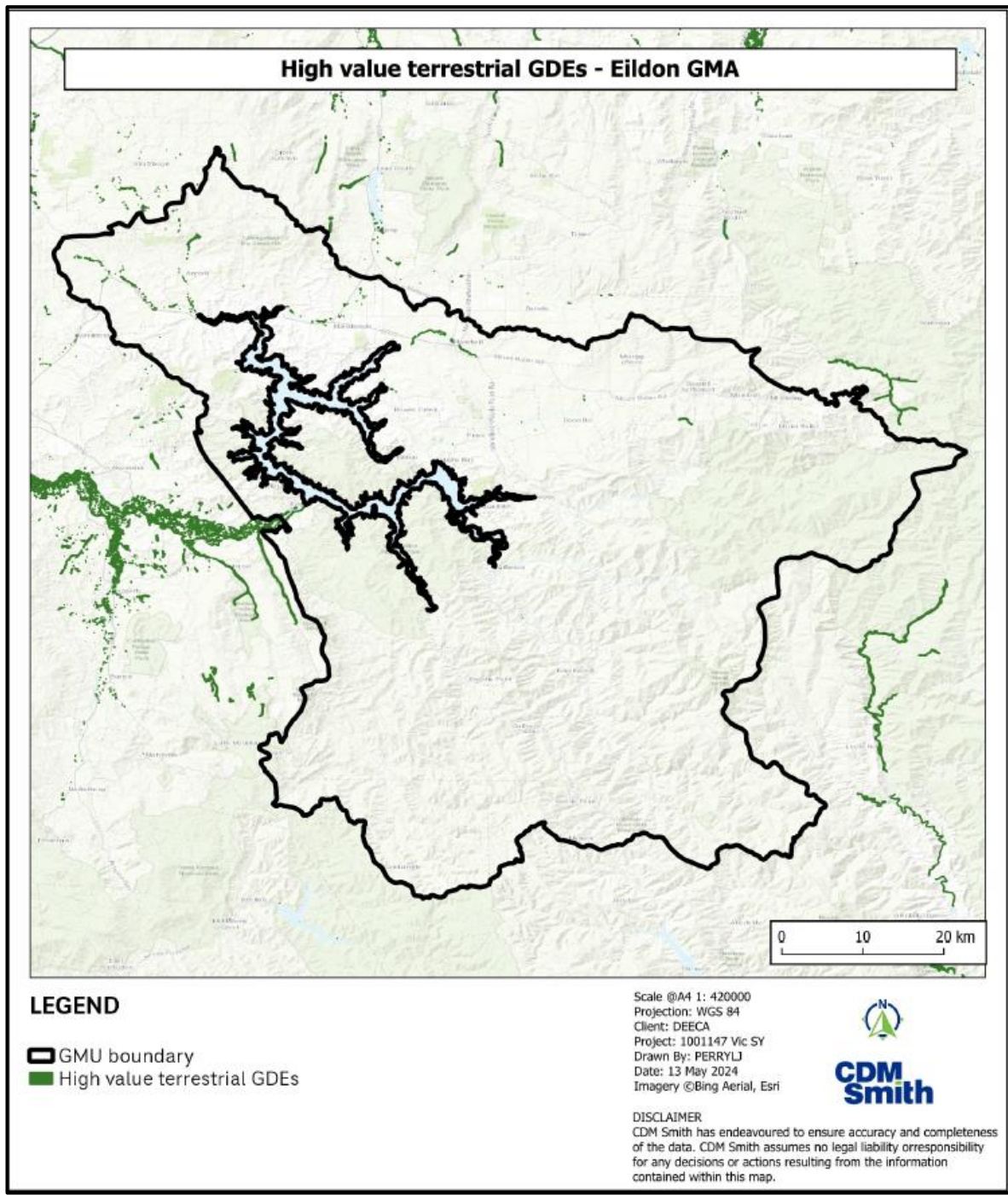


Figure HH-9 Terrestrial GDEs mapped within the Eildon GMA

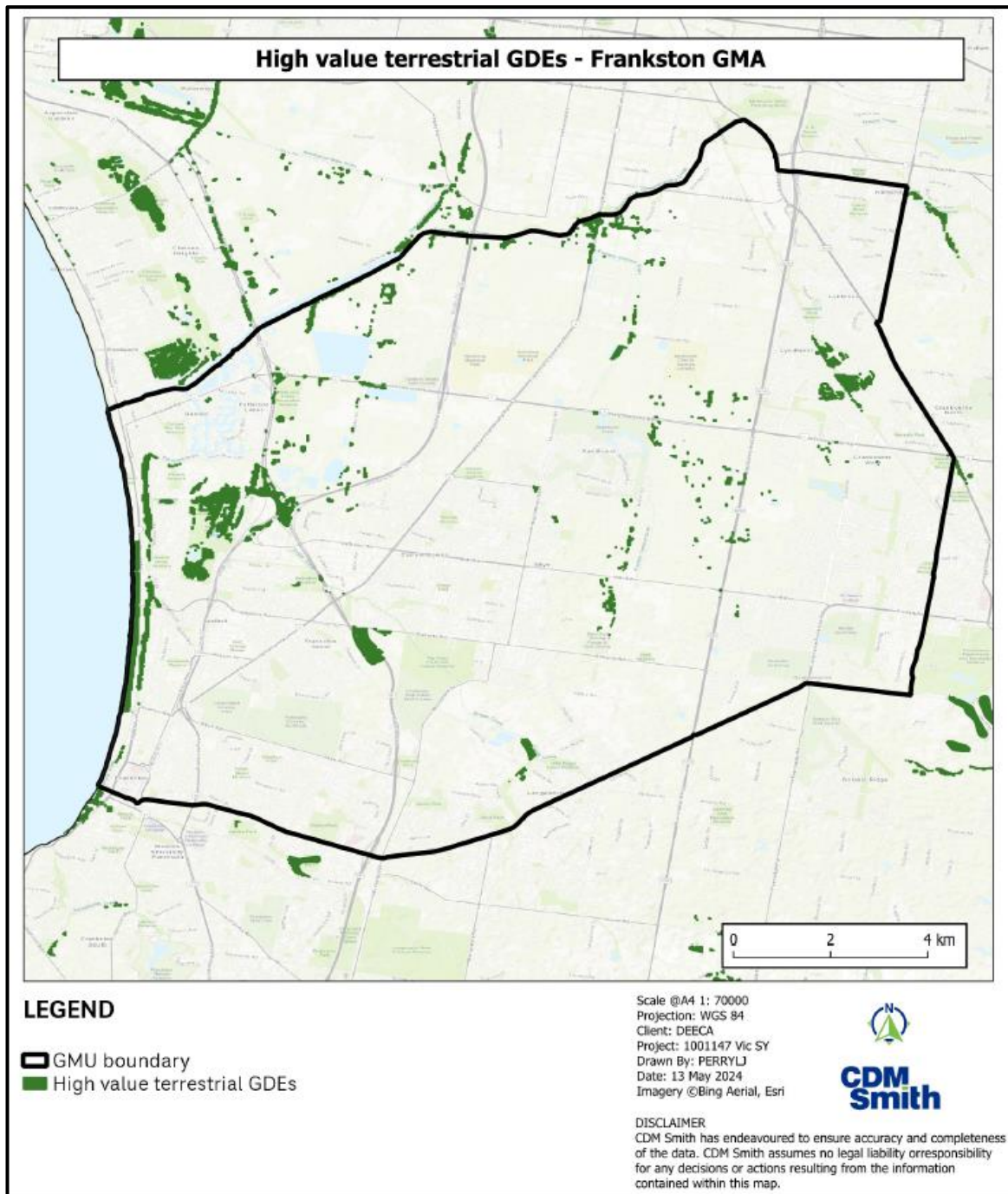


Figure HH-10 Terrestrial GDEs mapped within the Frankston GMA

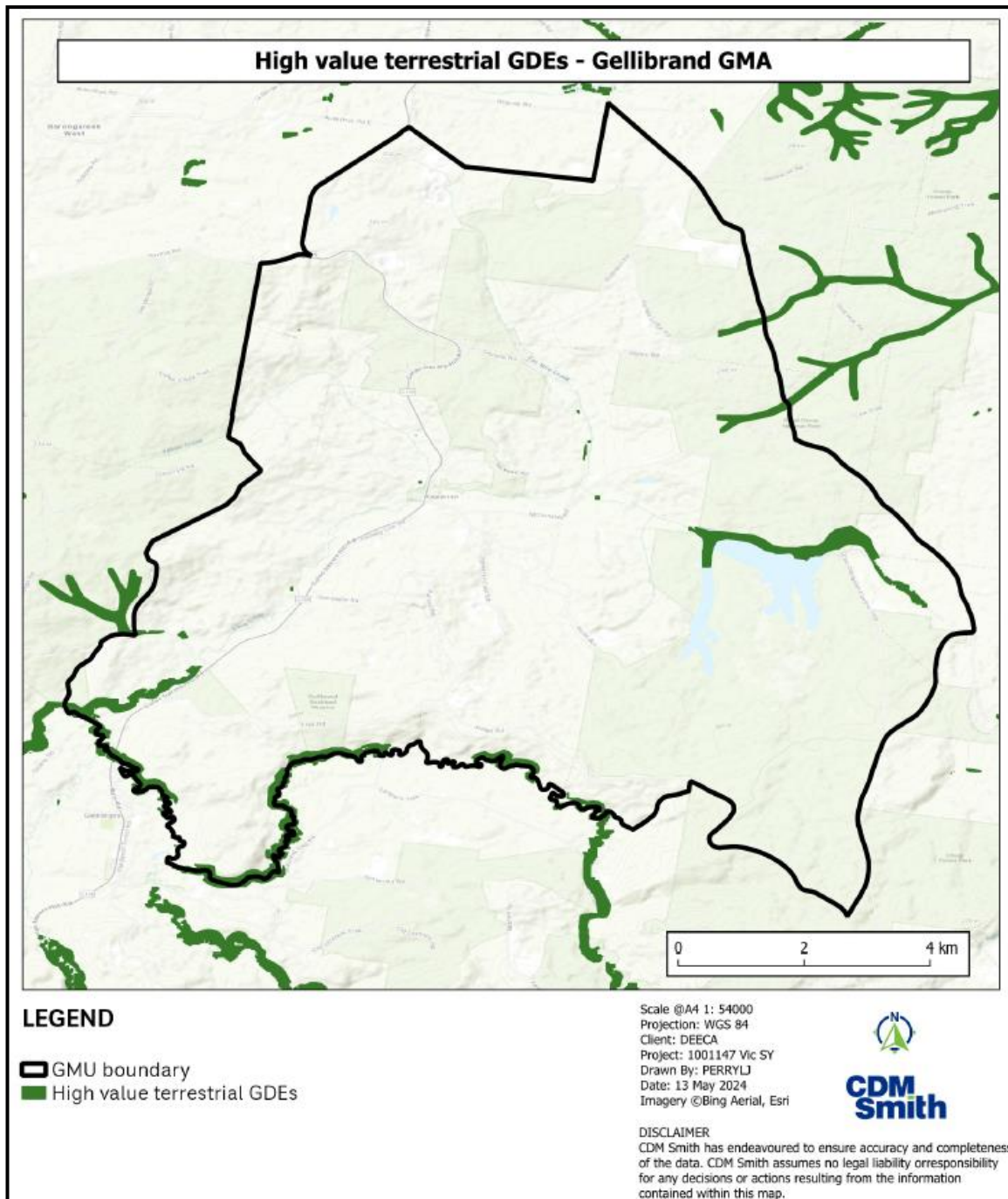


Figure HH-11 Terrestrial GDEs mapped within the Gellibrand GMA

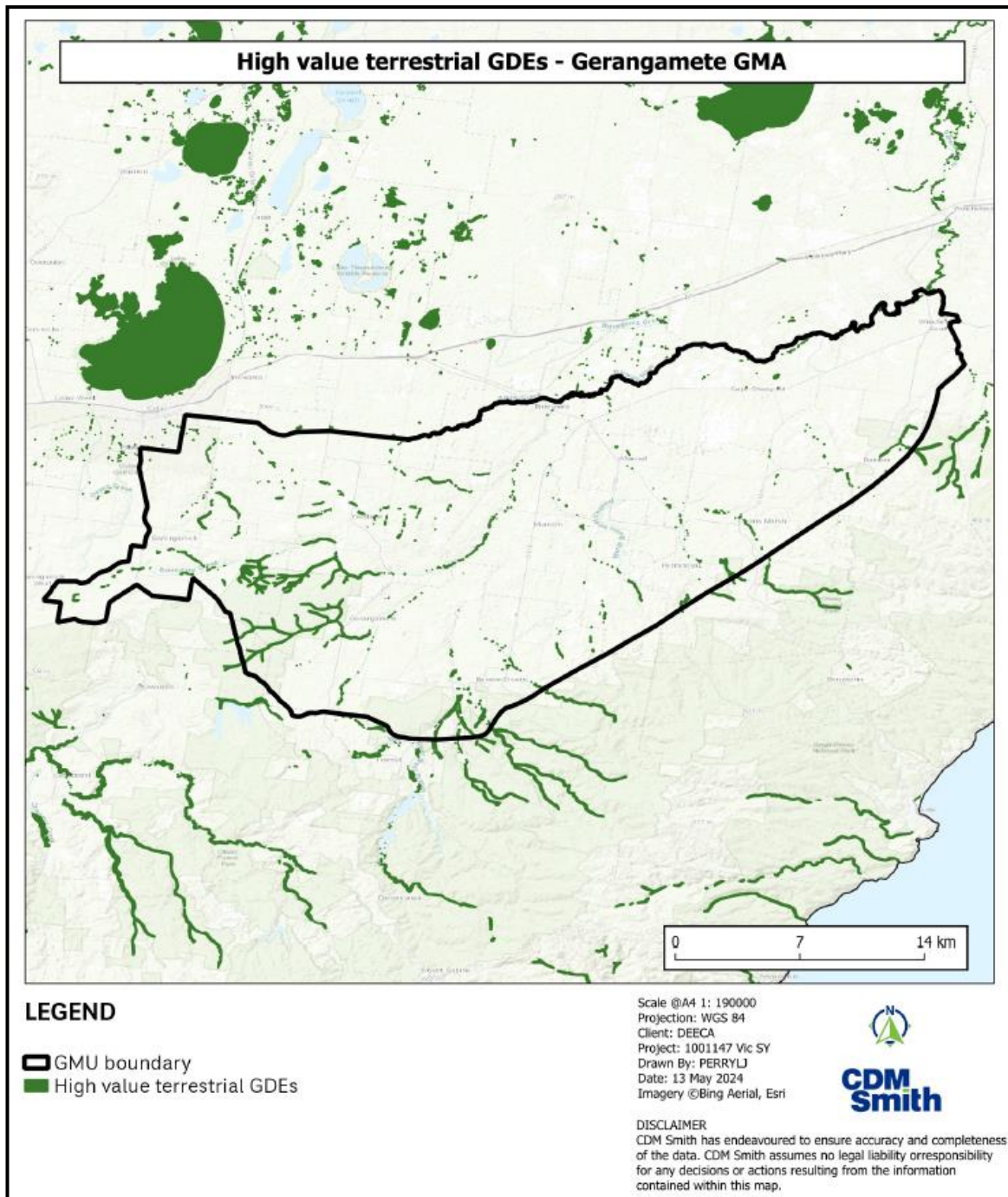


Figure HH-12 Terrestrial GDEs mapped within the Gerangamete GMA

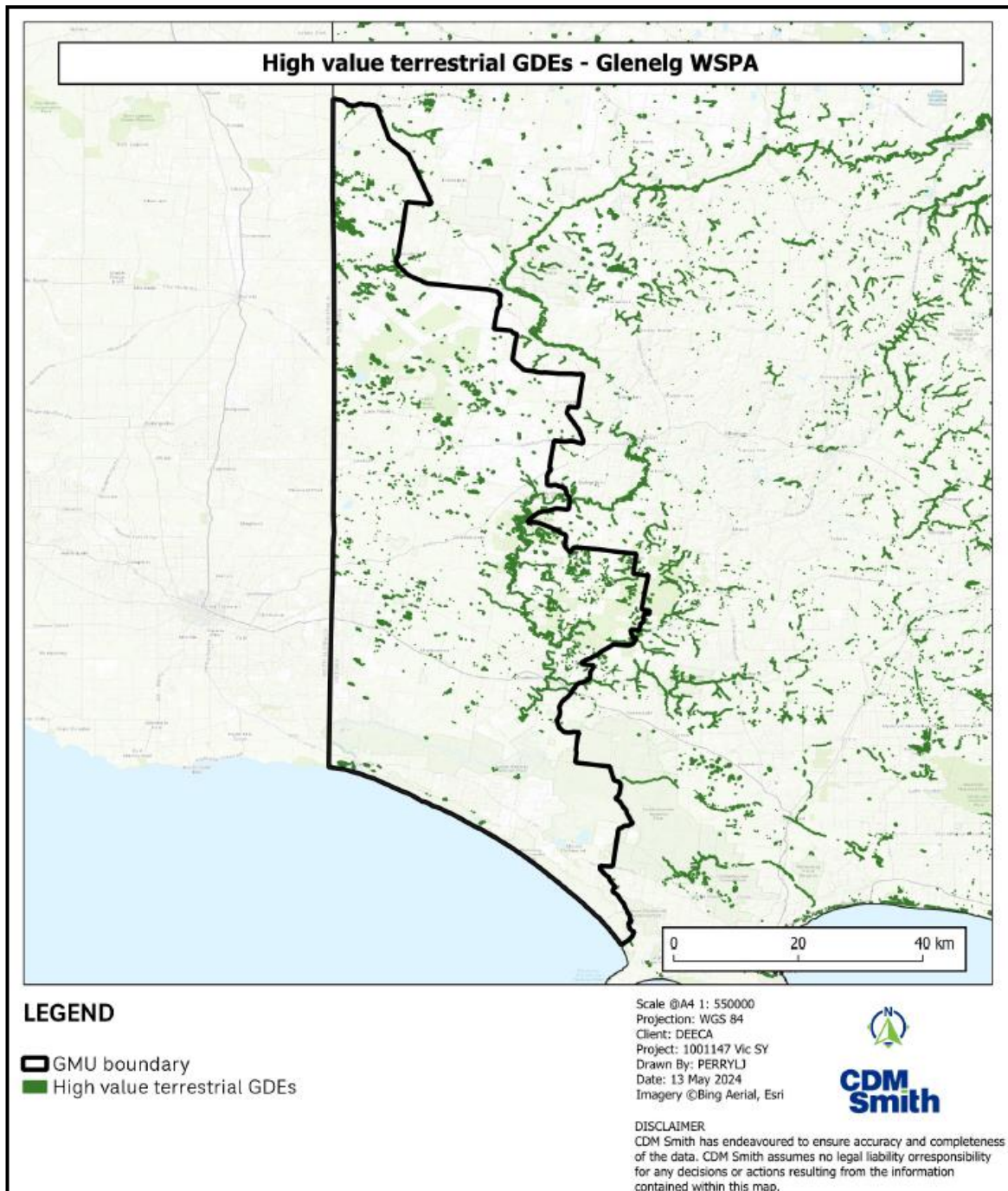


Figure HH-13 Terrestrial GDEs mapped within the Glenelg WSPA

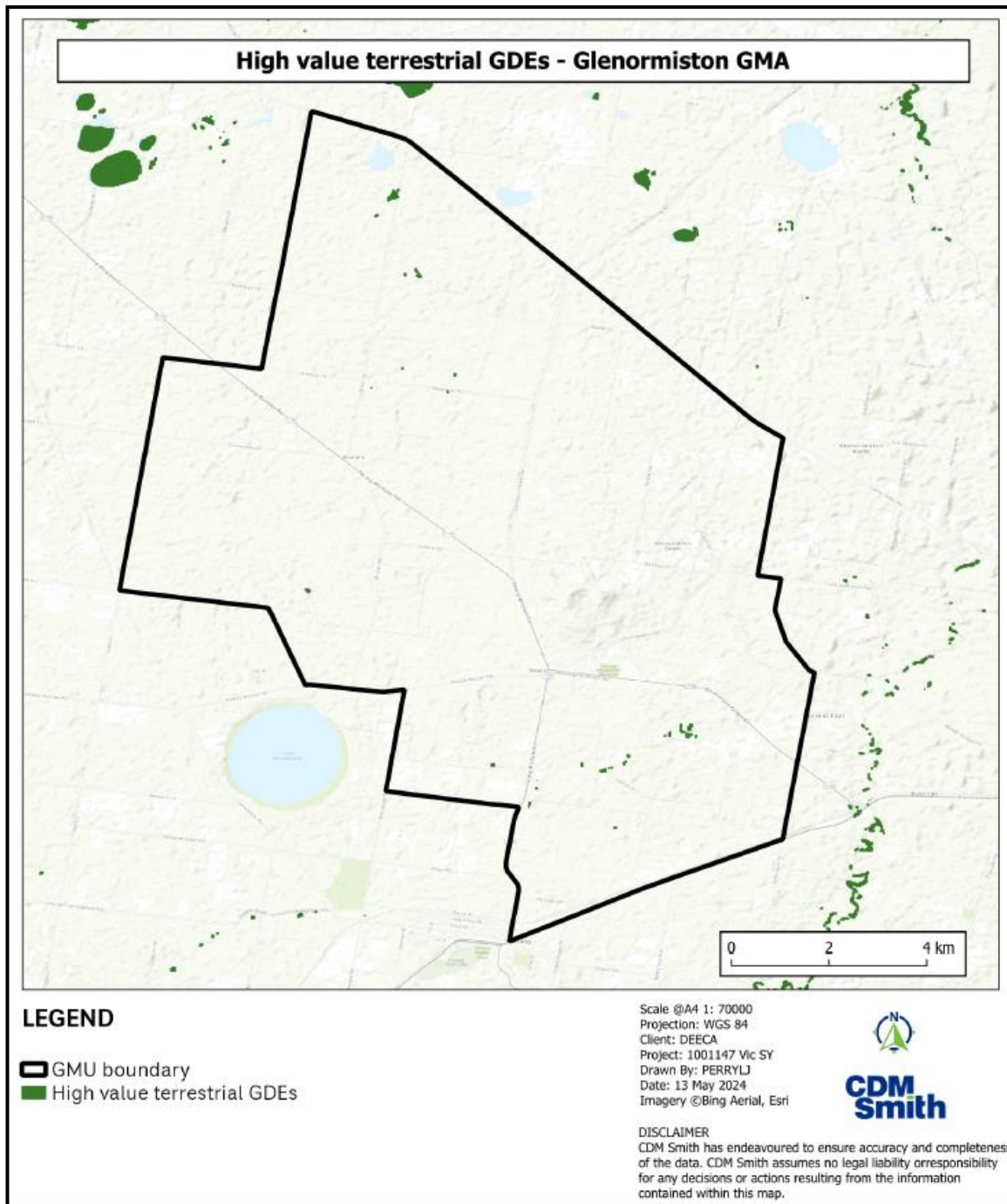


Figure HH-14 Terrestrial GDEs mapped within the Glenormiston GMA



Figure HH-15 Terrestrial GDEs mapped within the Hawkesdale GMA

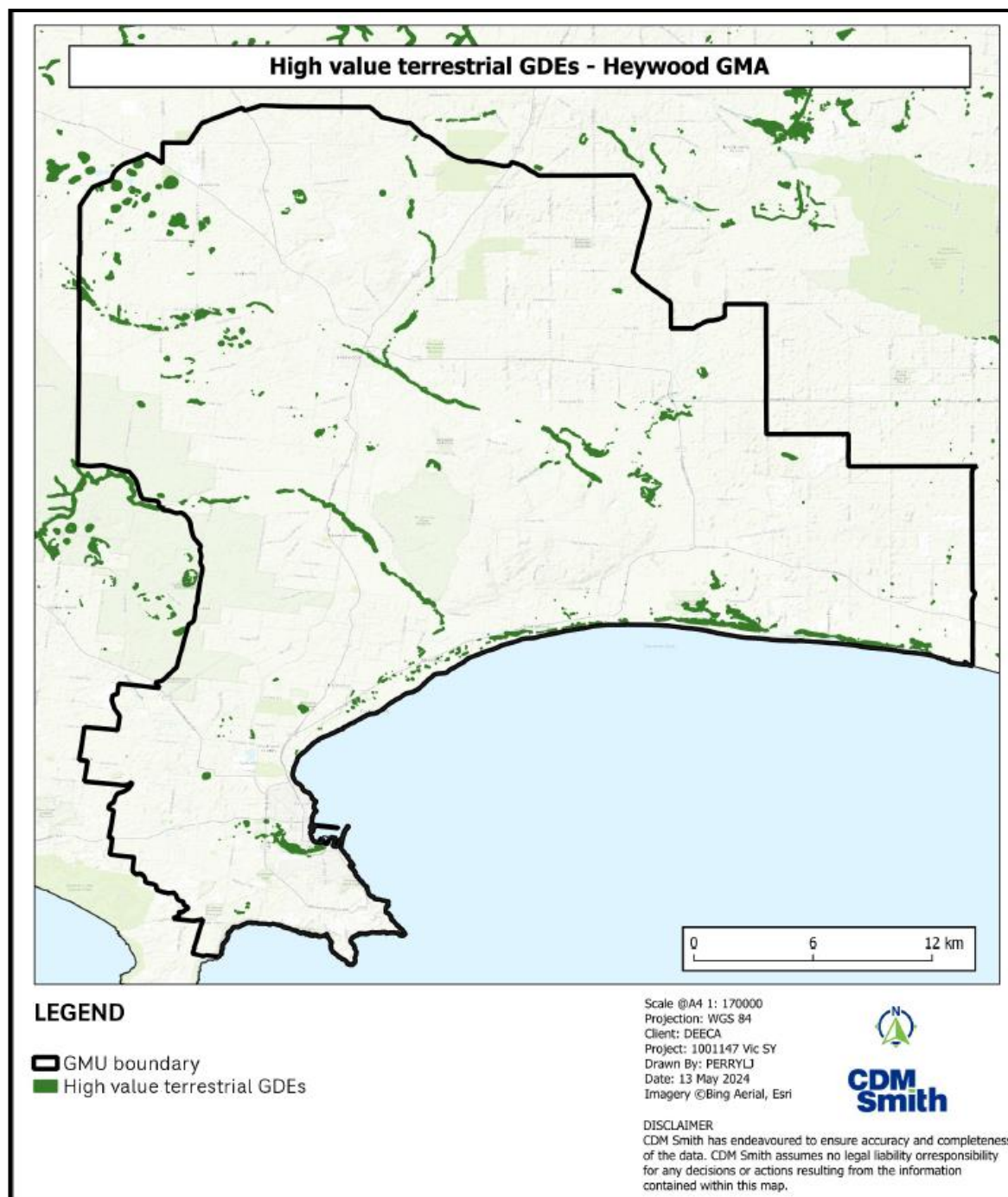


Figure HH-16 Terrestrial GDEs mapped within the Heywood GMA

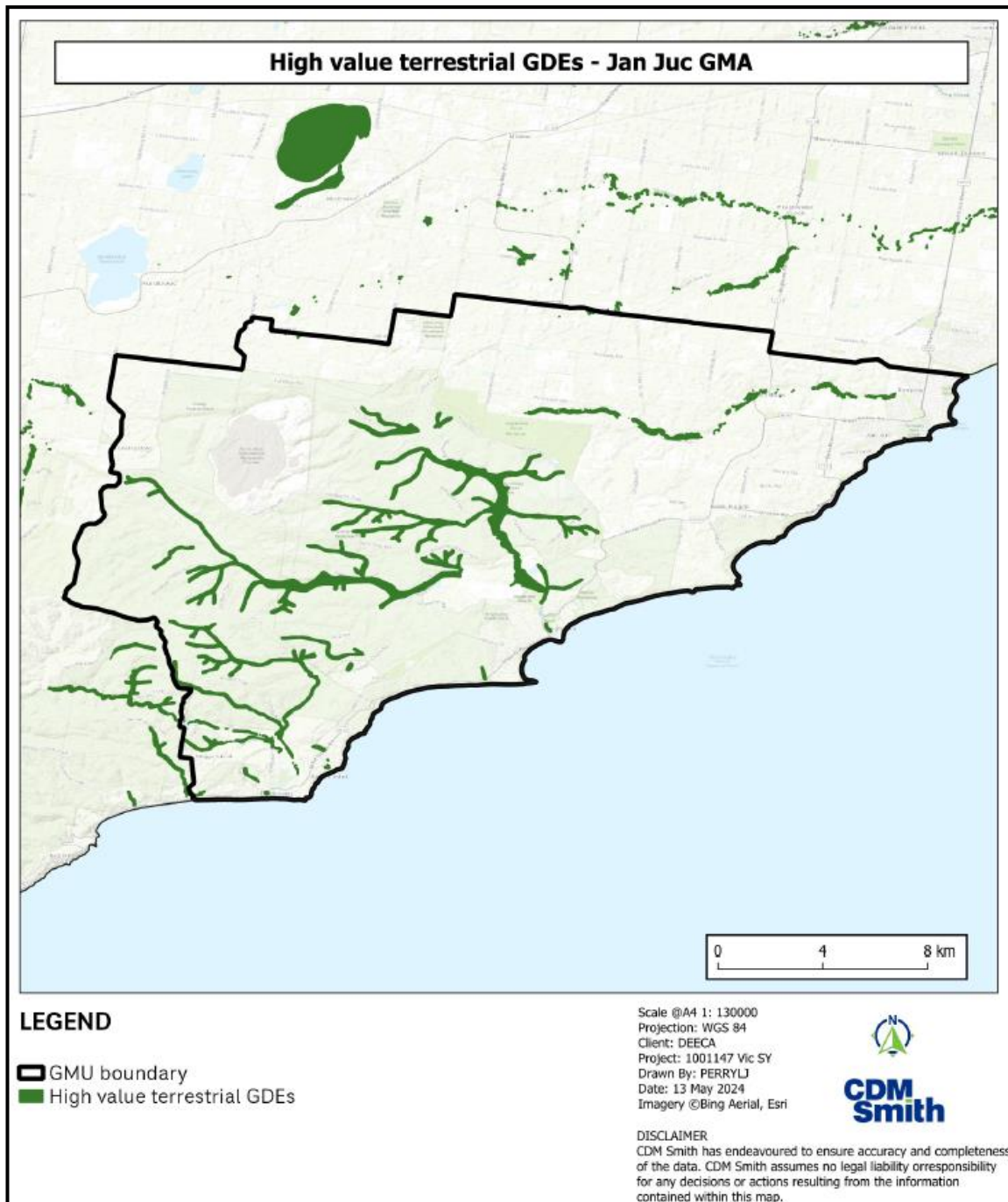


Figure HH-17 Terrestrial GDEs mapped within the Jan Juc GMA

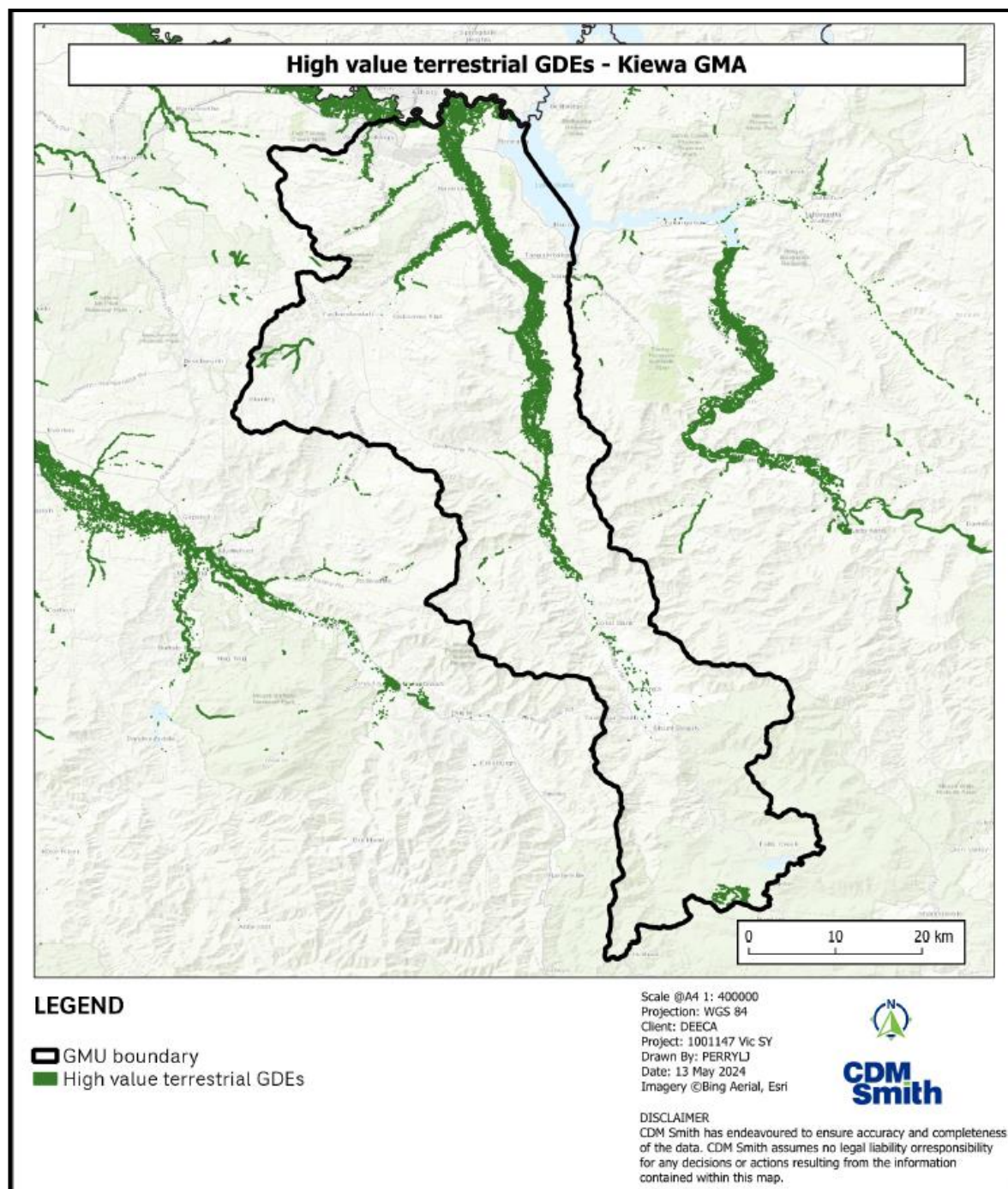


Figure HH-18 Terrestrial GDEs mapped within the Kiewa GMA

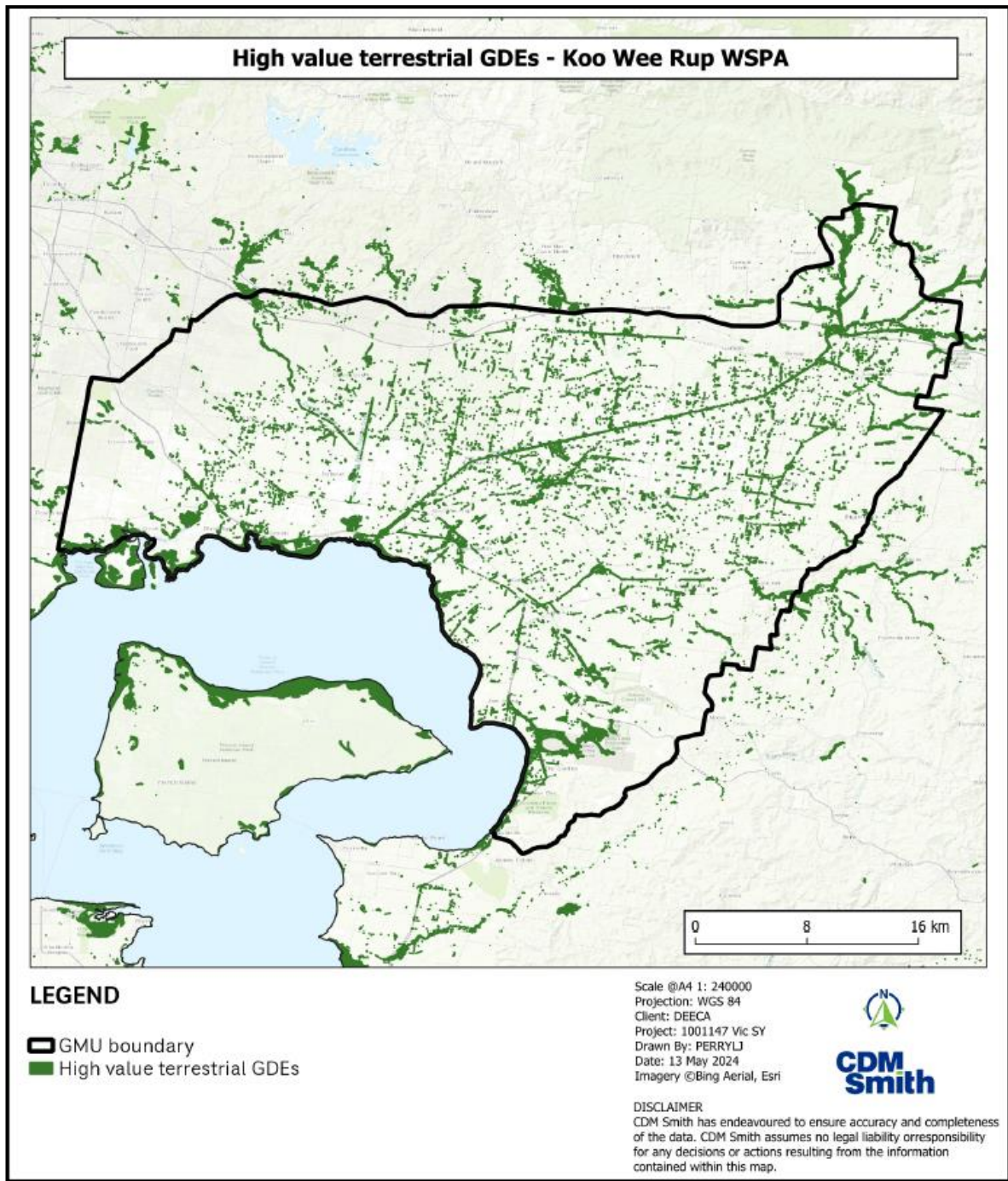


Figure HH-19 Terrestrial GDEs mapped within the Koo Wee Rup WSPA

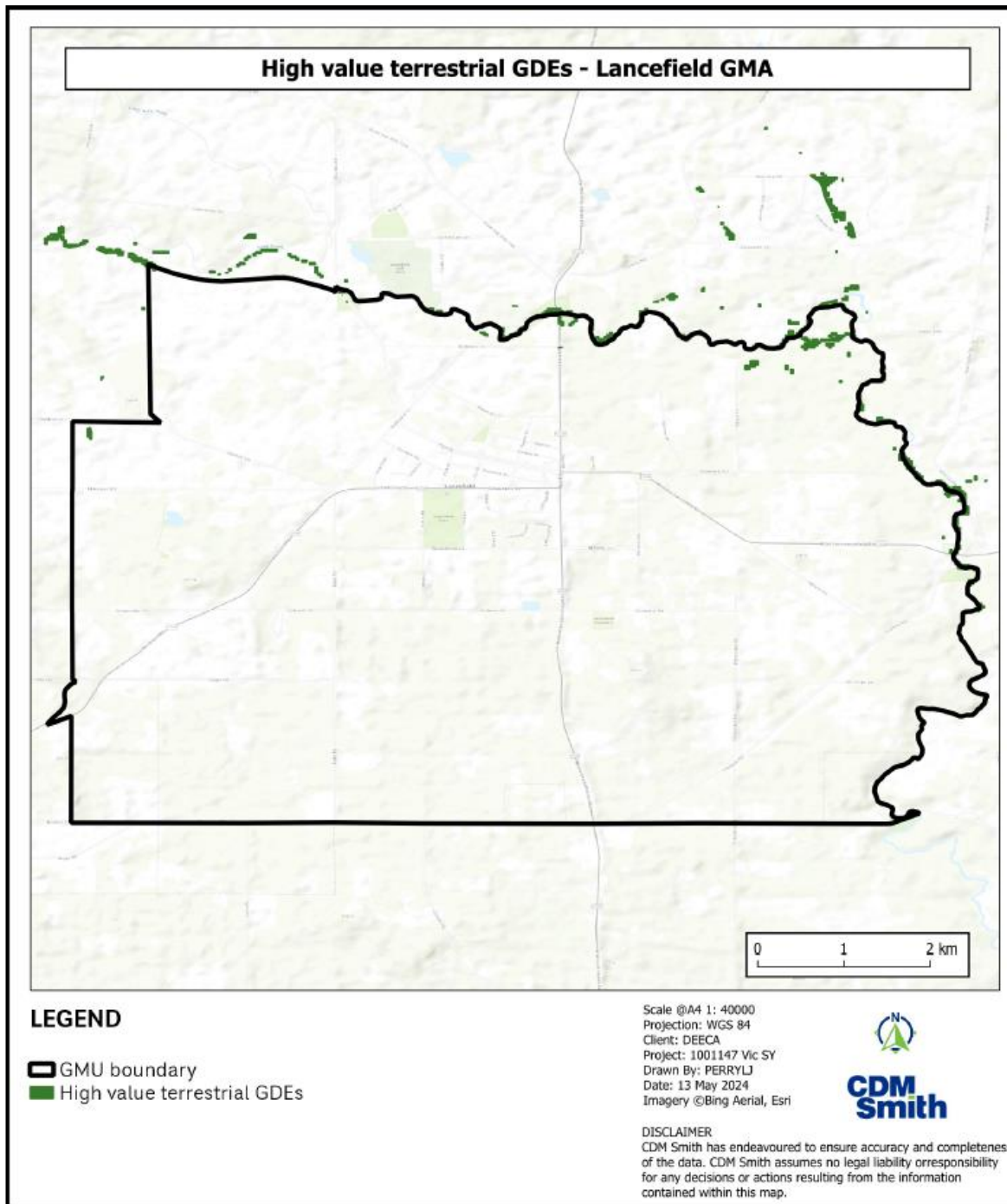


Figure HH-20 Terrestrial GDEs mapped within the Lancefield GMA

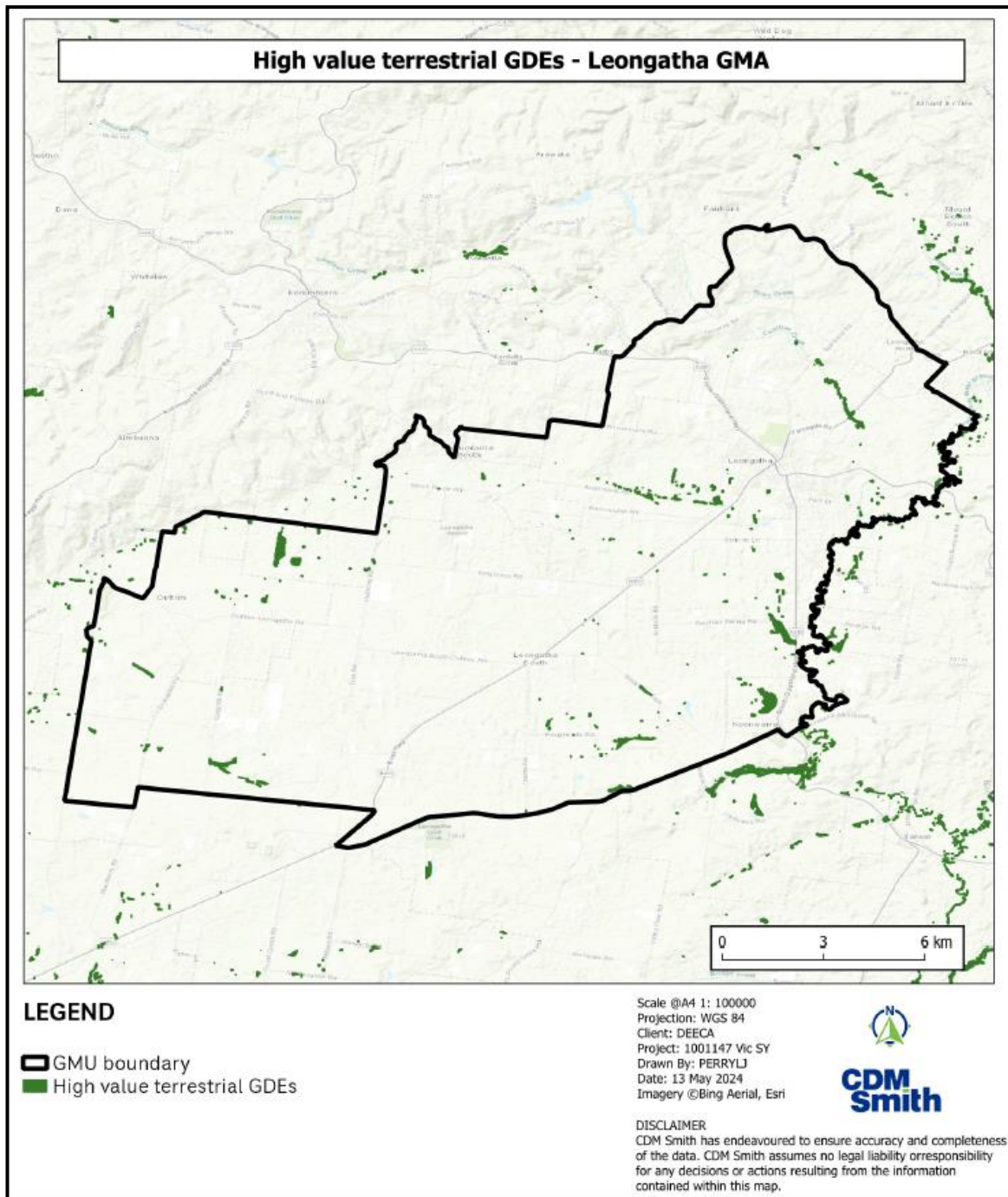


Figure HH-21 Terrestrial GDEs mapped within the Leongatha GMA

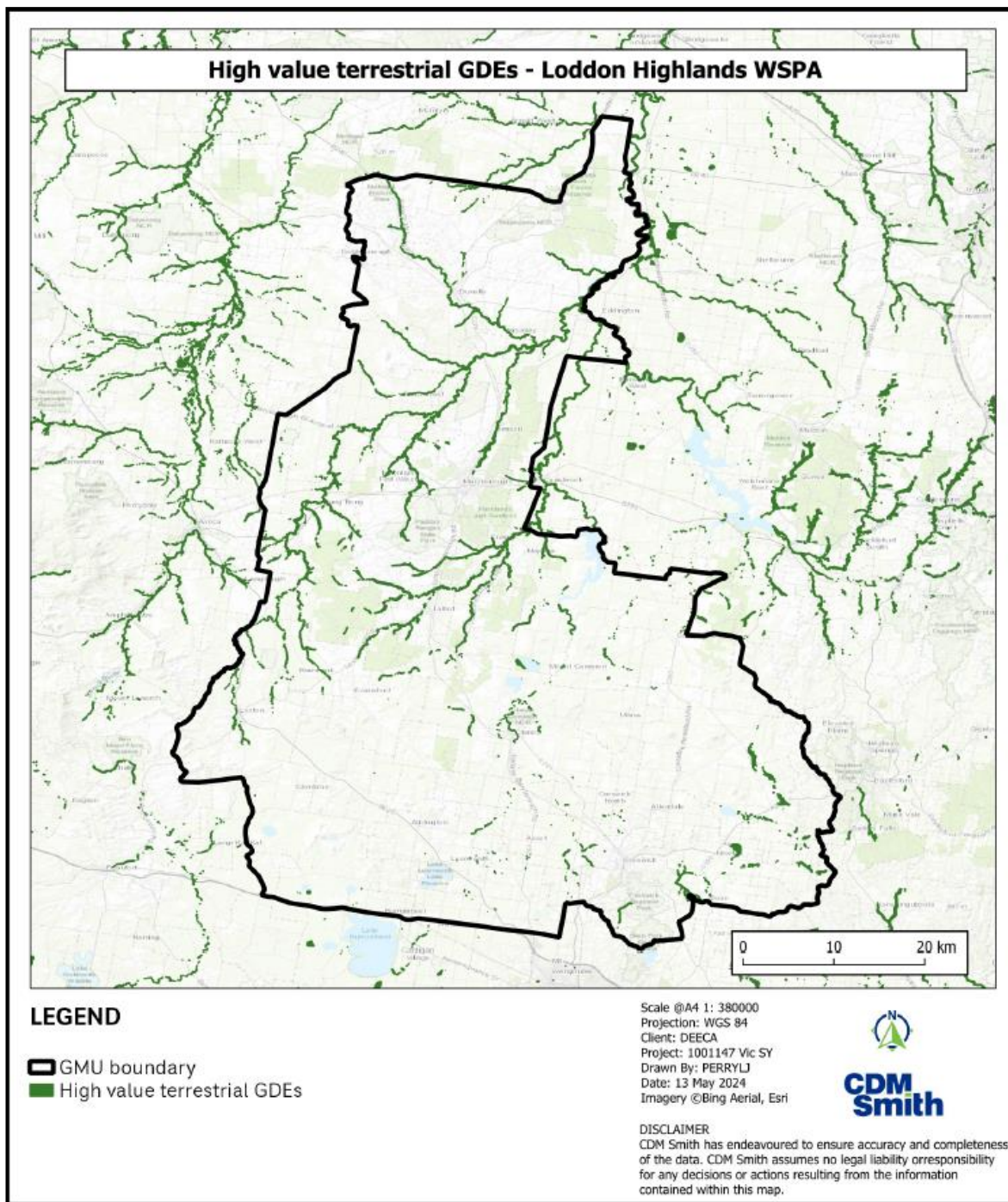


Figure HH-22 Terrestrial GDEs mapped within the Loddon Highlands WSPA

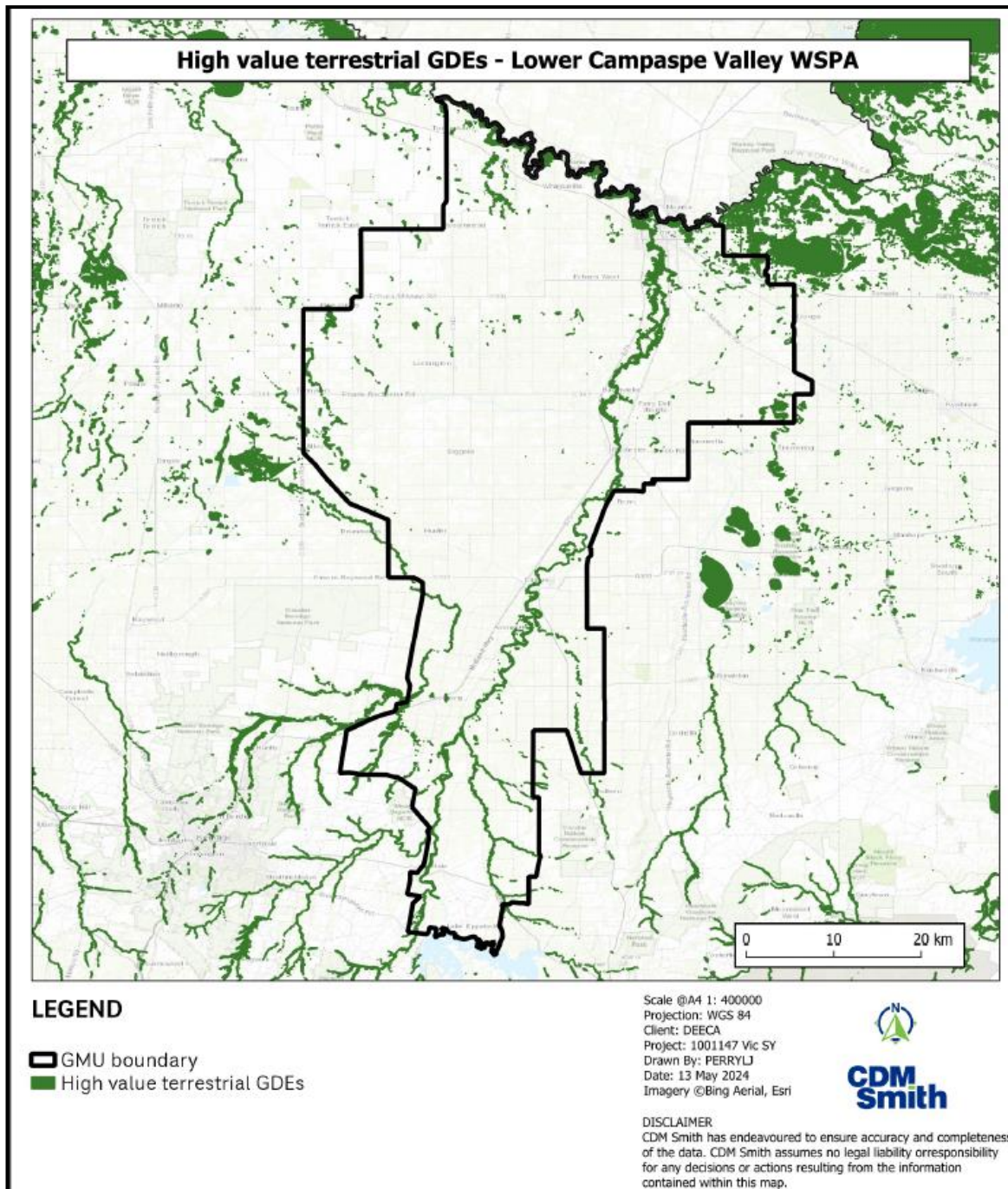


Figure HH-23 Terrestrial GDEs mapped within the Lower Campaspe Valley WSPA

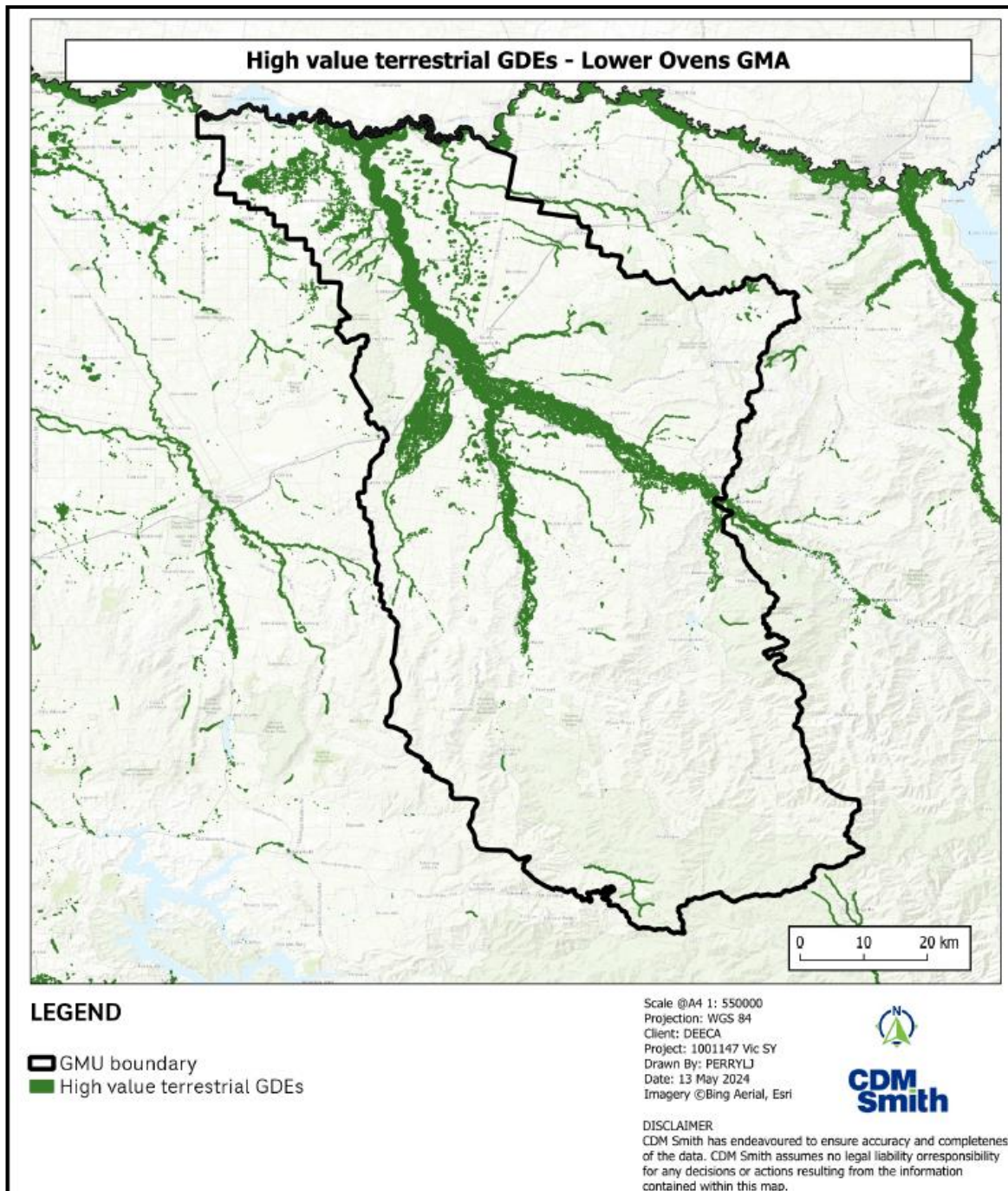


Figure HH-24 Terrestrial GDEs mapped within the Lower Ovens GMA

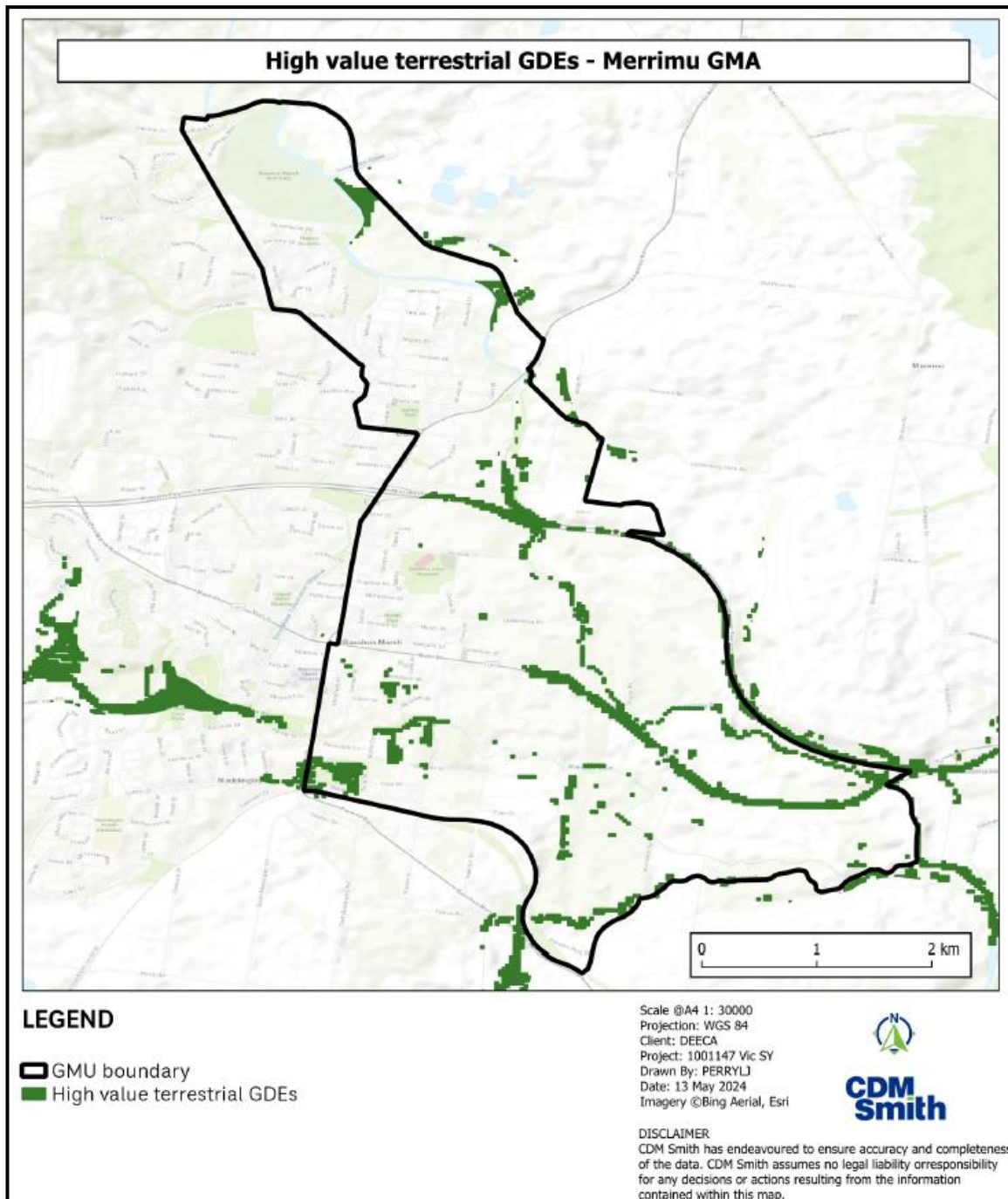


Figure HH-25 Terrestrial GDEs mapped within the Merrimu GMA

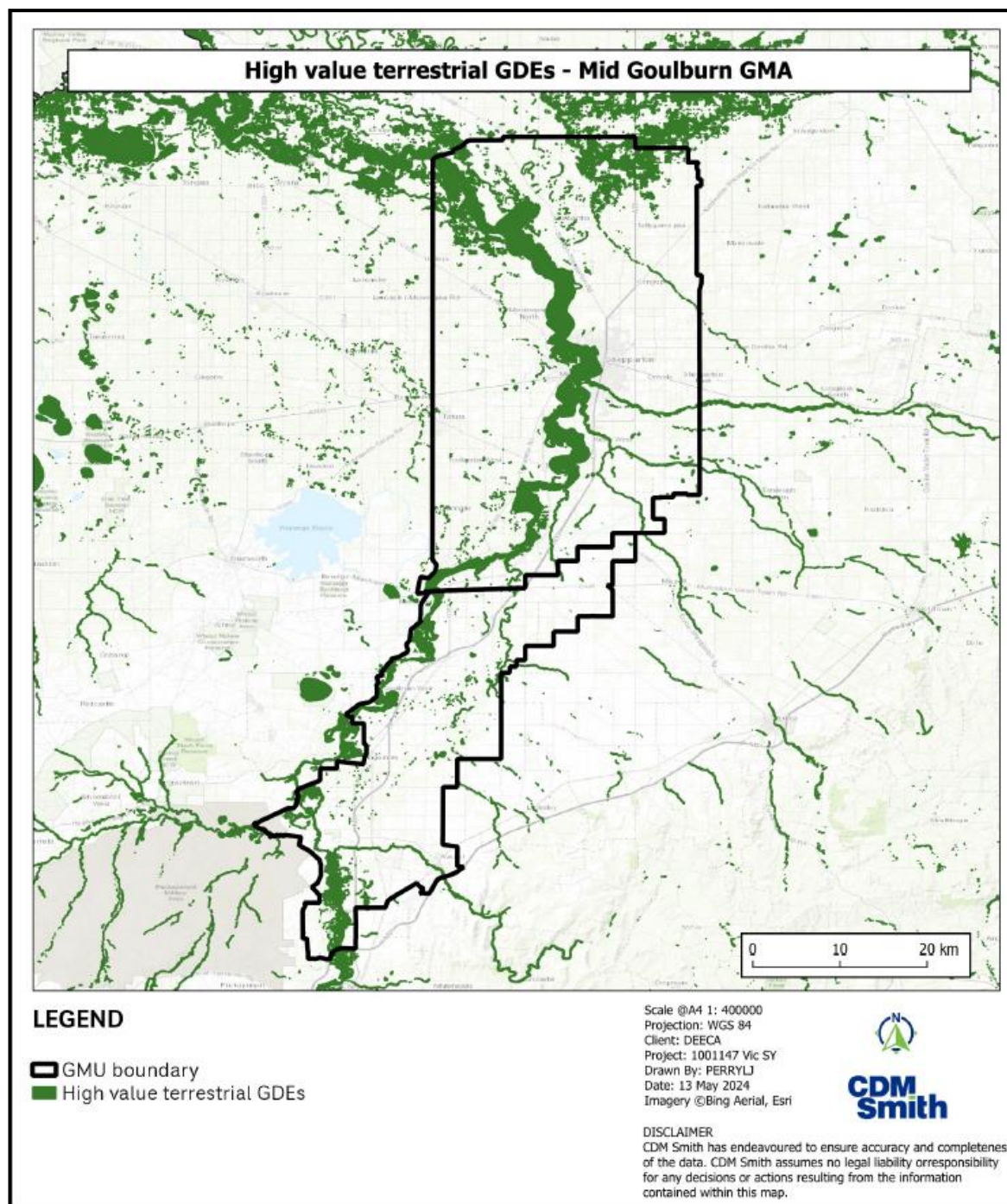


Figure HH-26 Terrestrial GDEs mapped within the Mid Goulburn GMA

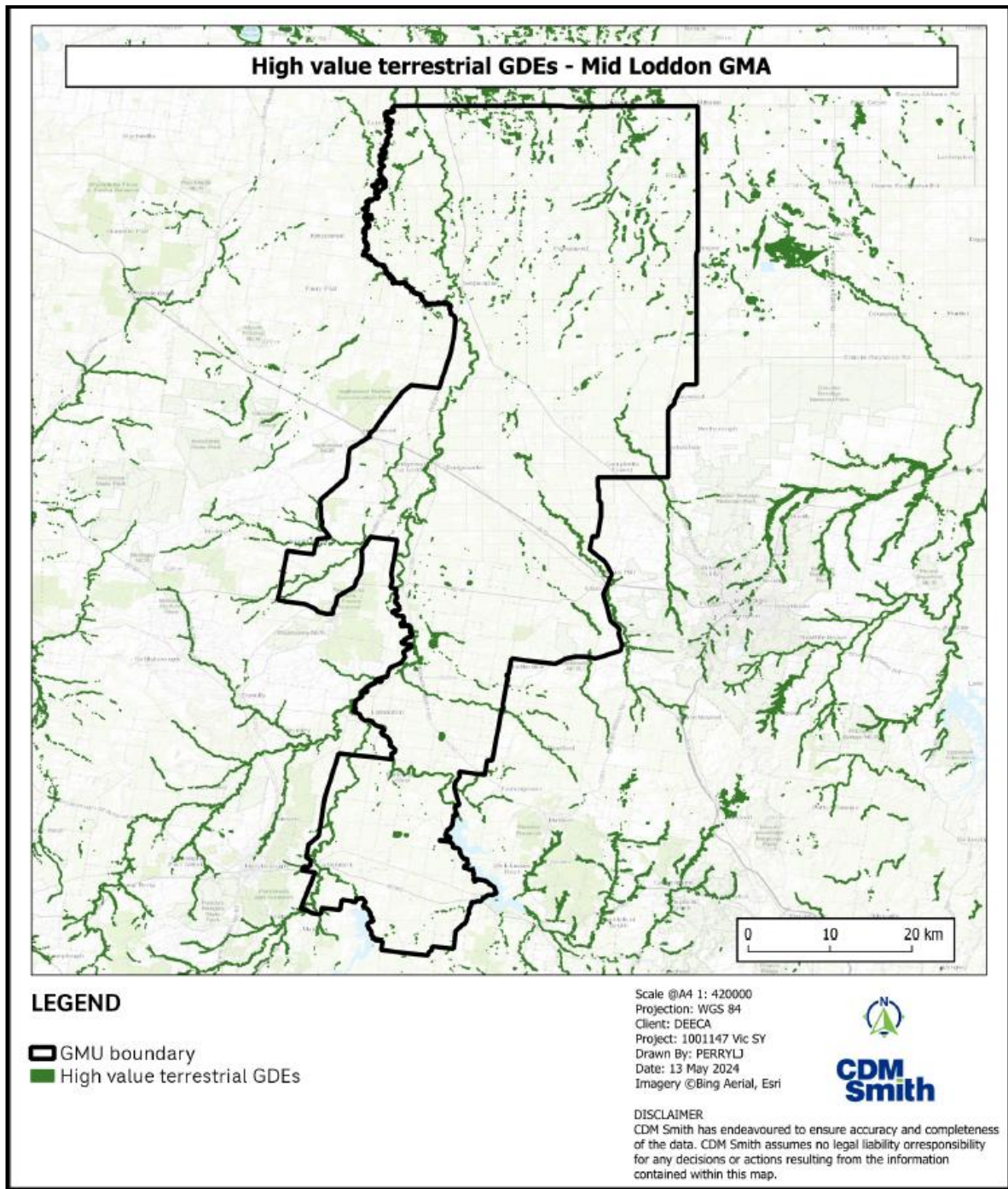


Figure HH-27 Terrestrial GDEs mapped within the Mid Loddon GMA

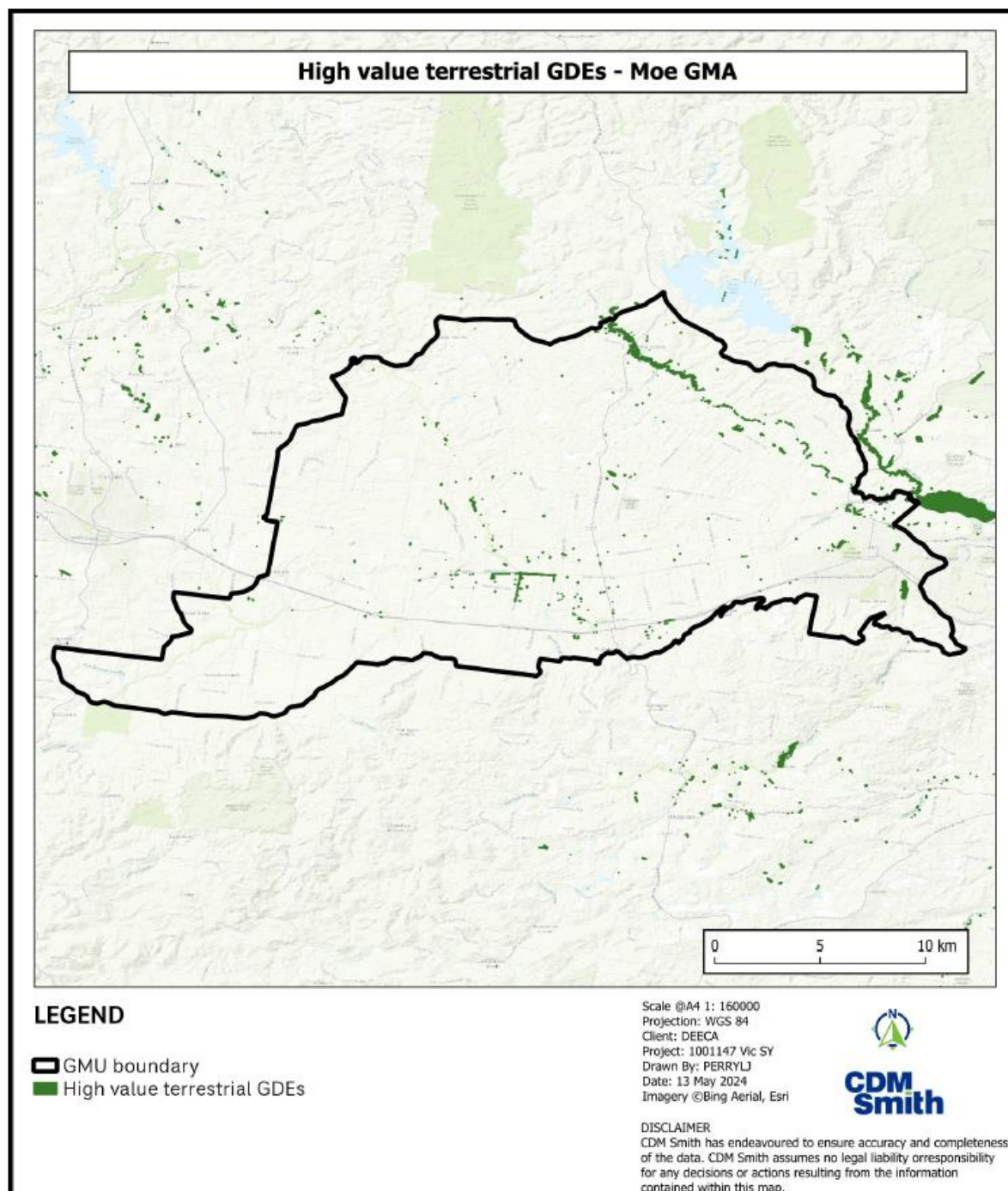


Figure HH-28 Terrestrial GDEs mapped within the Moe GMA



Figure HH-29 Terrestrial GDEs mapped within the Moorabbin GMA



Figure HH-30 Terrestrial GDEs mapped within the Nepean GMA



Figure HH-31 Terrestrial GDEs mapped within the Newlingbrook GMA



Figure HH-32 Terrestrial GDEs mapped within the Nullawarre WSPA

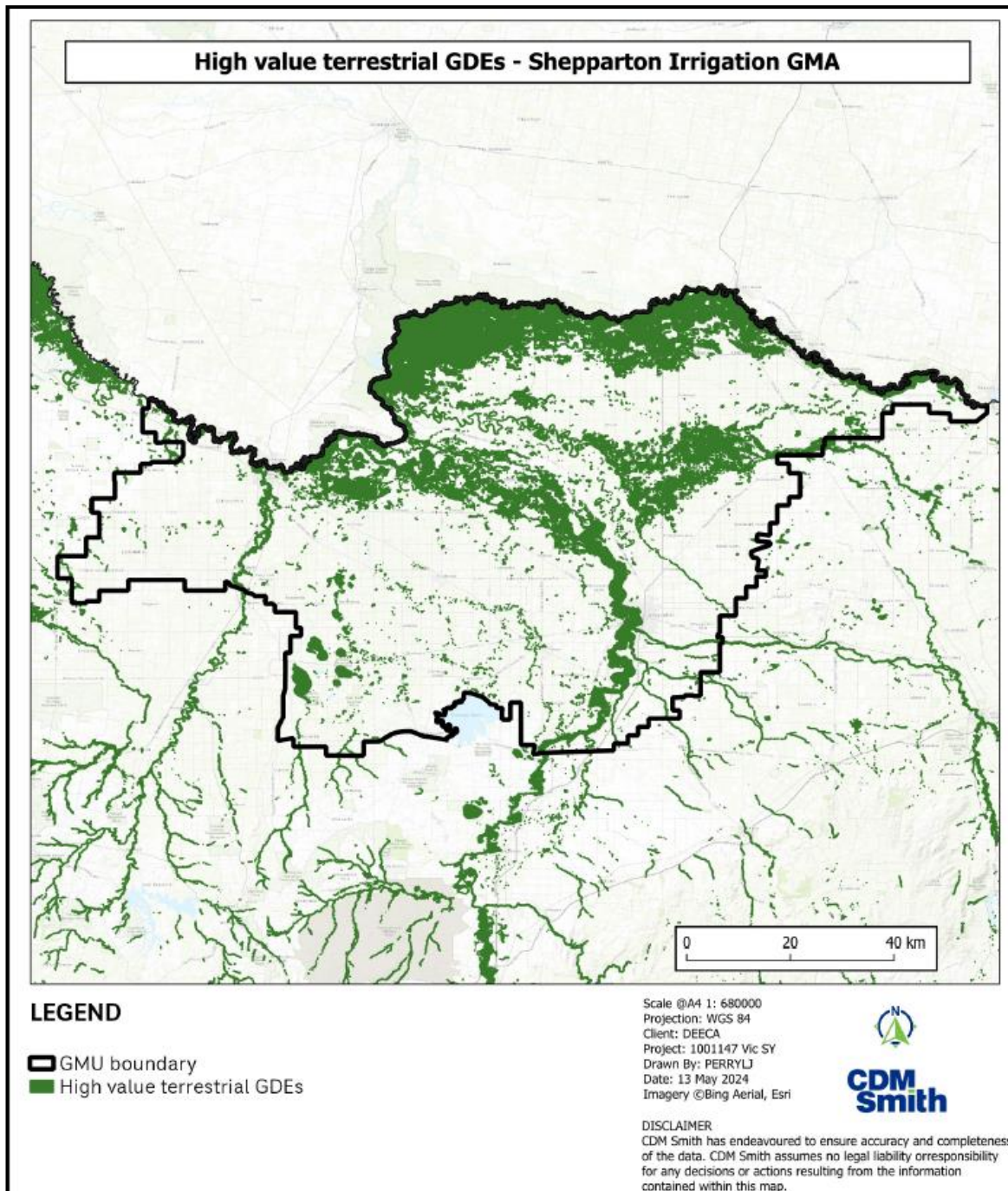


Figure HH-33 Terrestrial GDEs mapped within the Shepparton Irrigation GMA

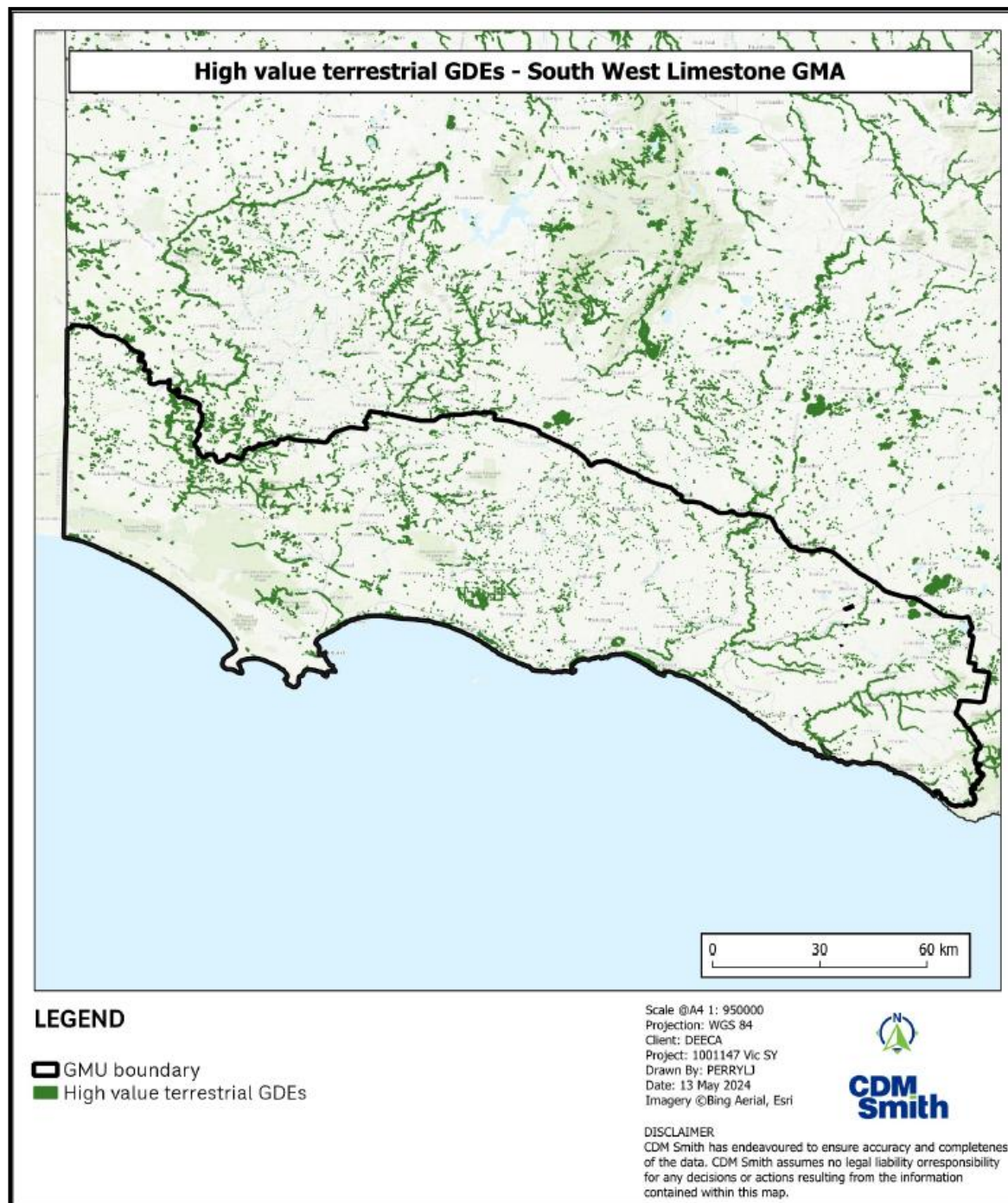


Figure HH-34 Terrestrial GDEs mapped within the South West Limestone GMA

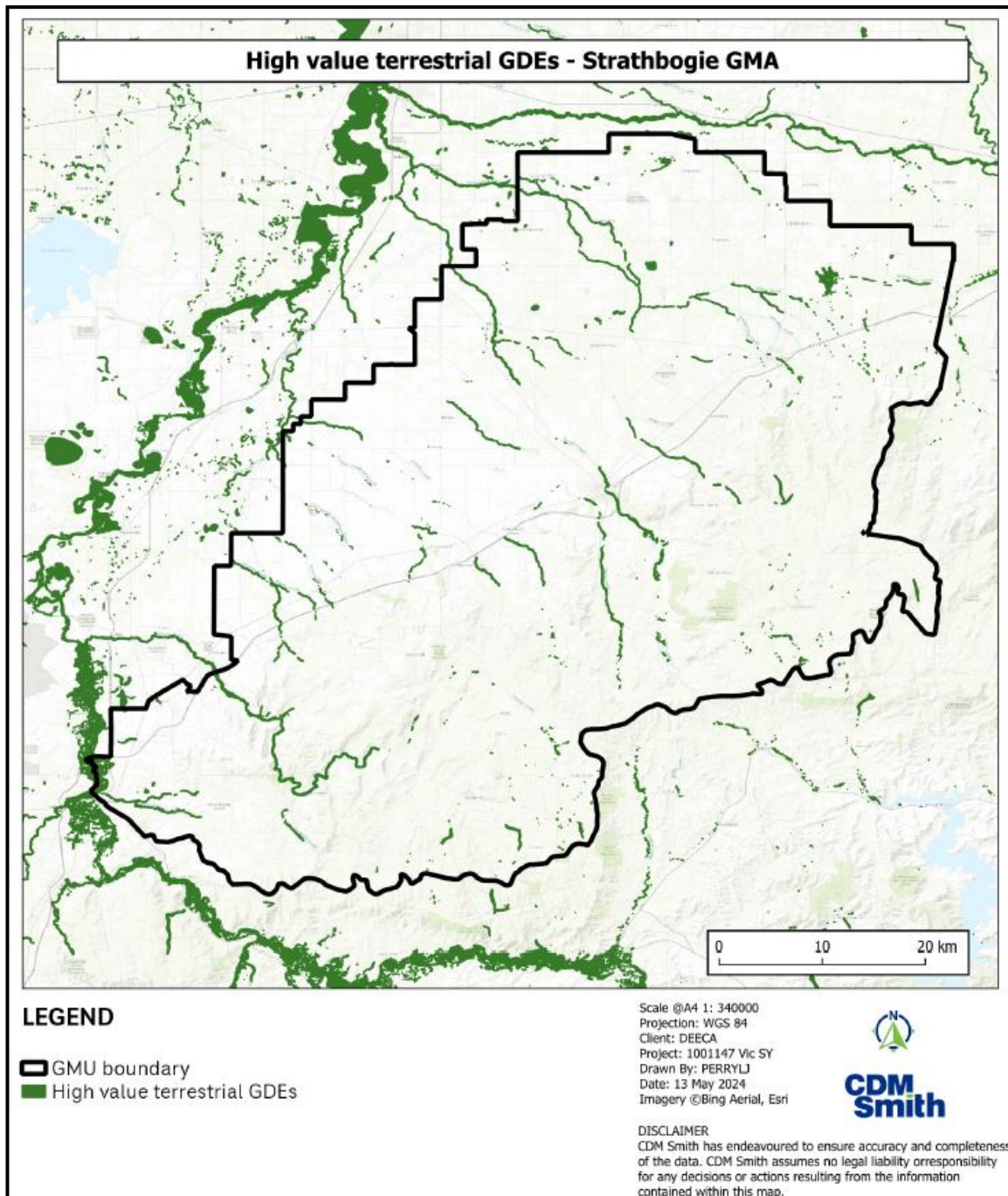


Figure HH-35 Terrestrial GDEs mapped within the Strathbogie GMA

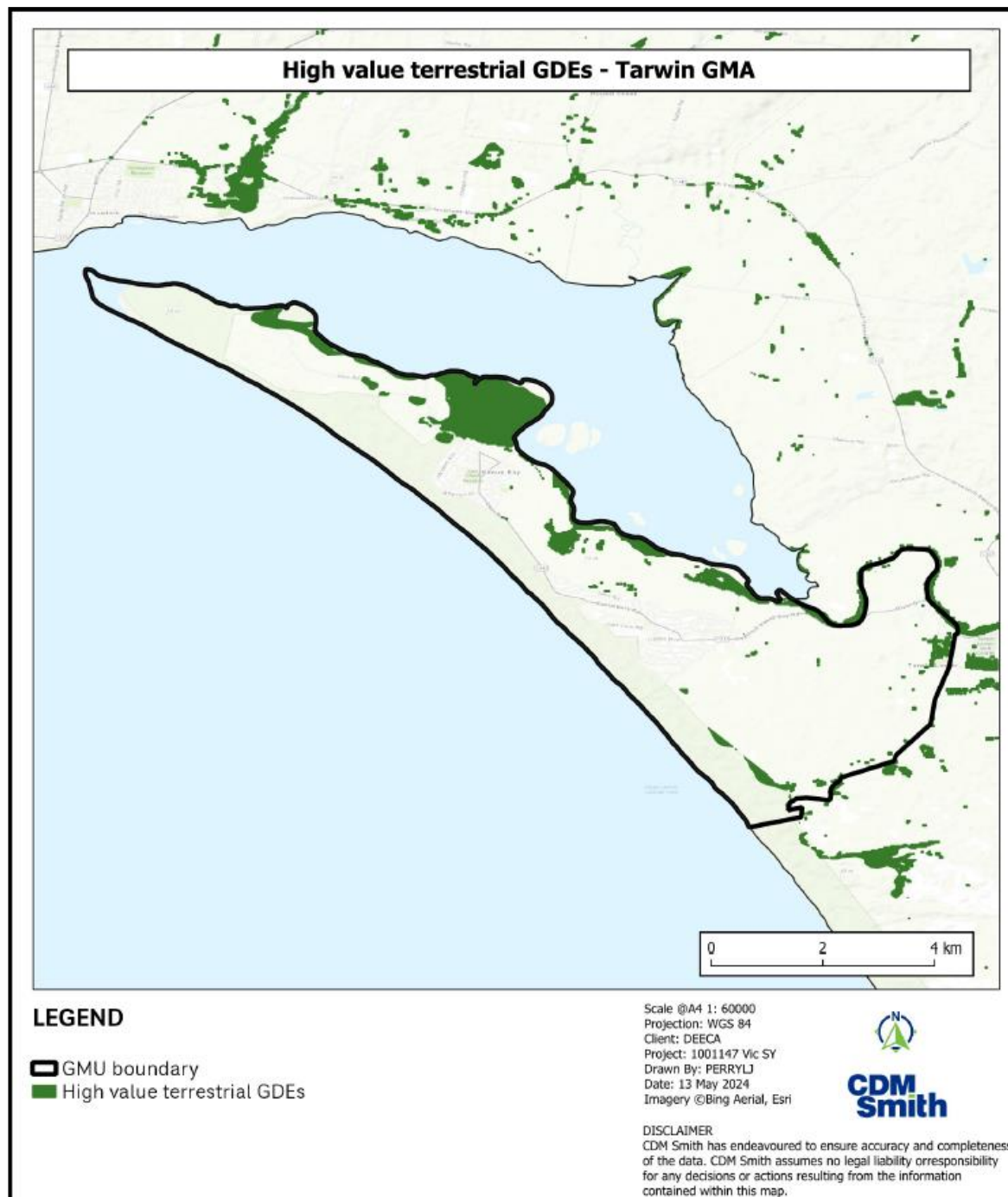


Figure HH-36 Terrestrial GDEs mapped within the Tarwin GMA

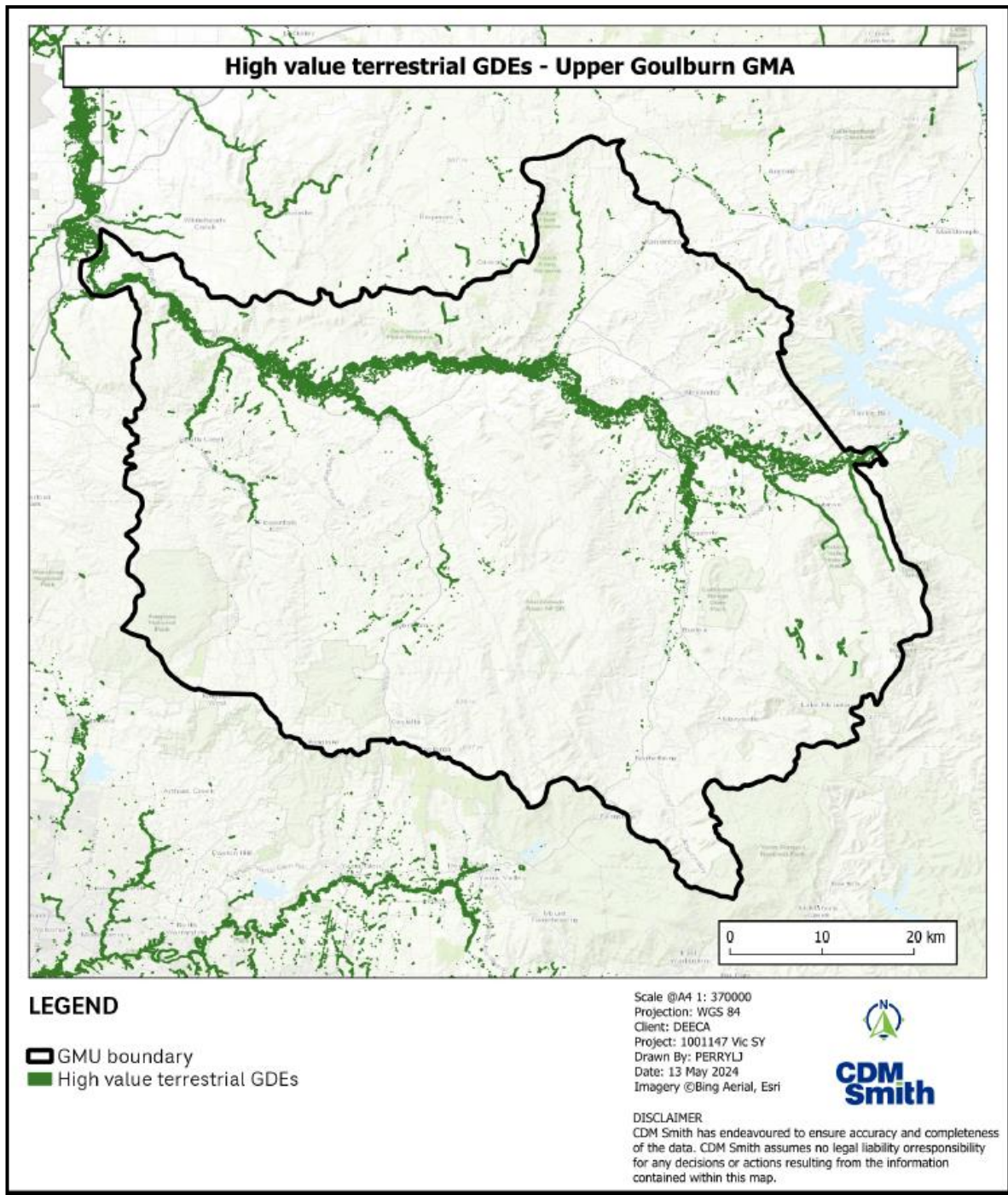


Figure HH-37 Terrestrial GDEs mapped within the Upper Goulburn GMA

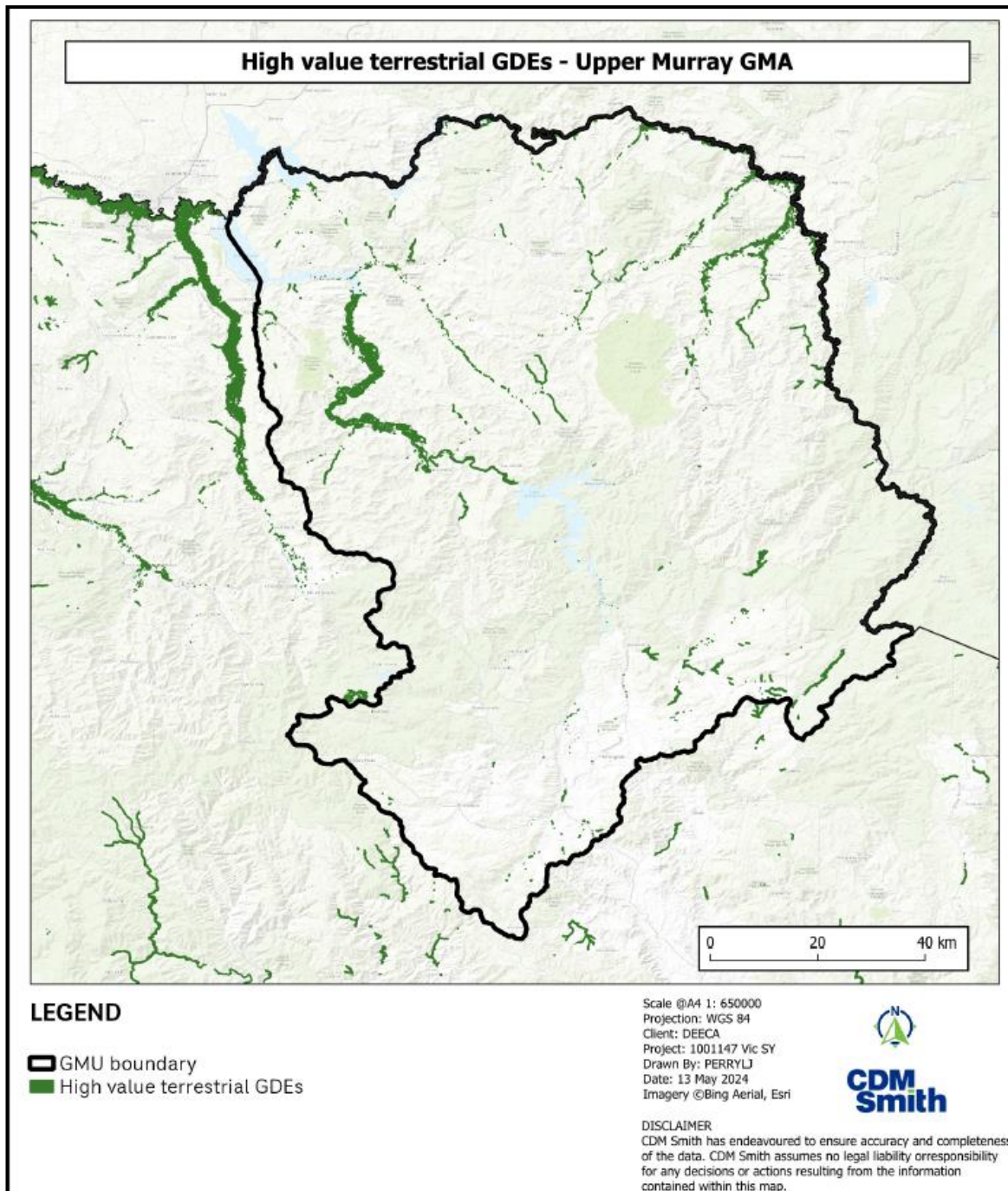


Figure HH-38 Terrestrial GDEs mapped within the Upper Murray GMA

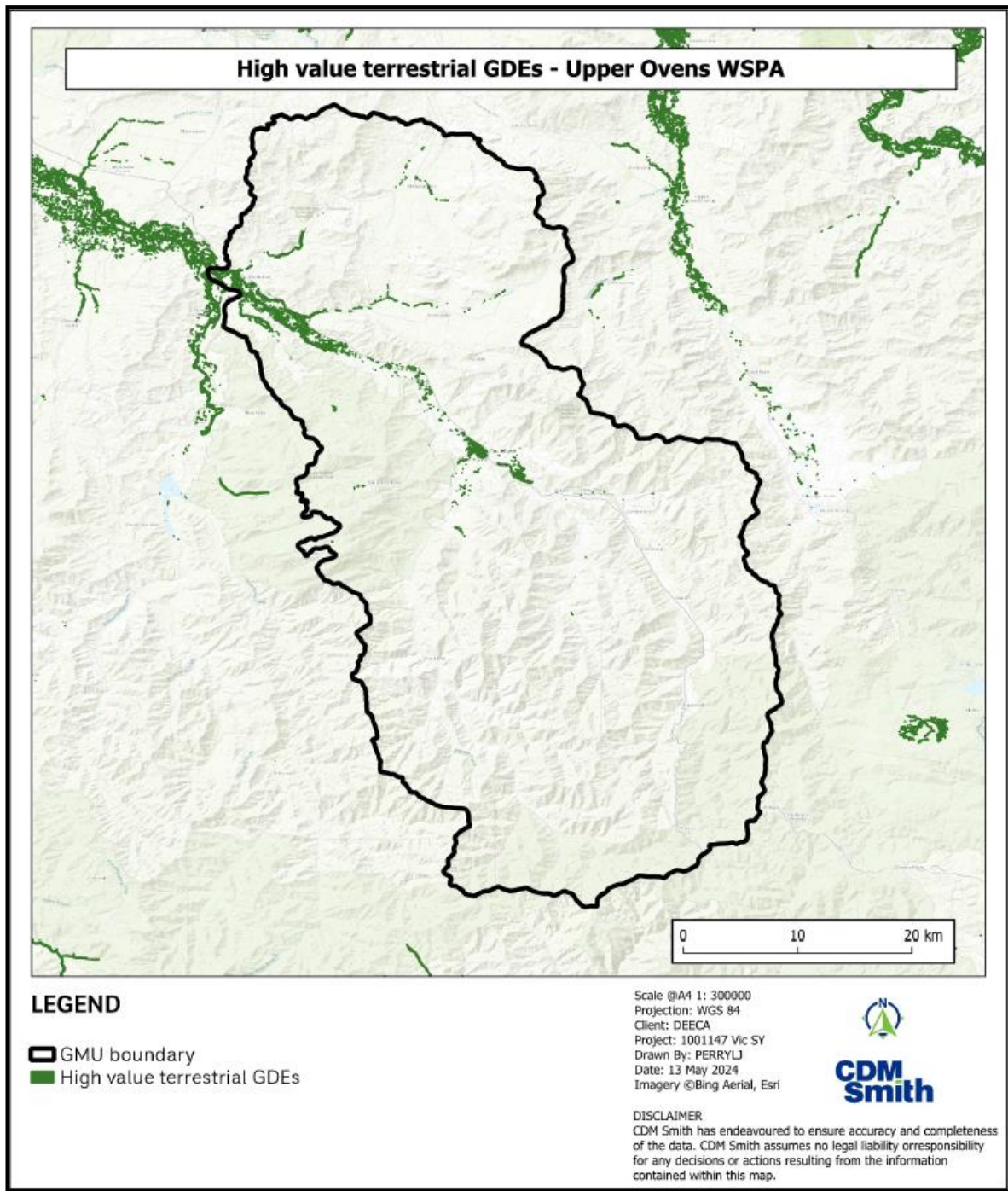


Figure HH-39 Terrestrial GDEs mapped within the Upper Ovens WSPA ;

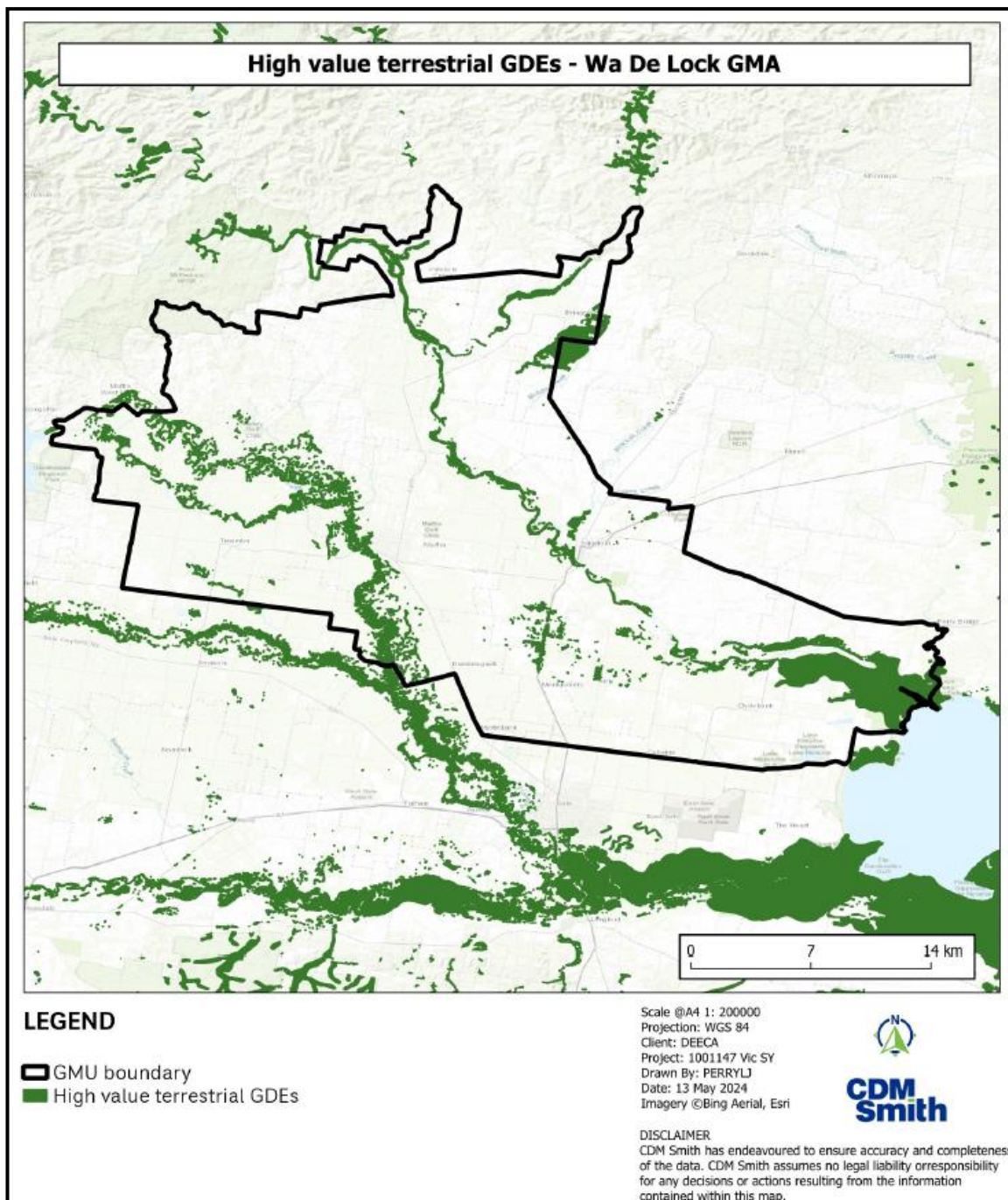


Figure HH-40 Terrestrial GDEs mapped within the Wa De Lock GMA

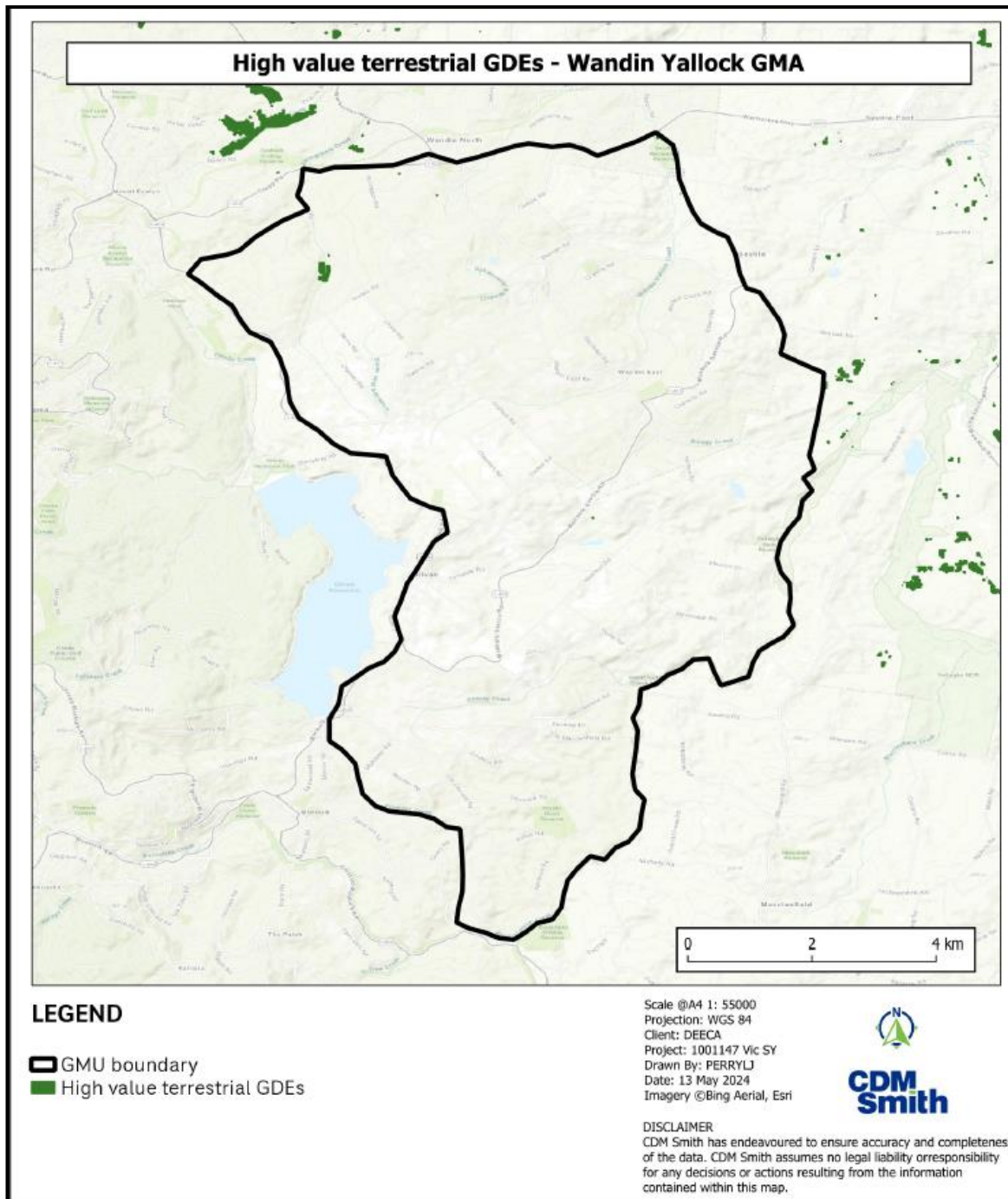


Figure HH-41 Terrestrial GDEs mapped within the Wandin Yallock GMA

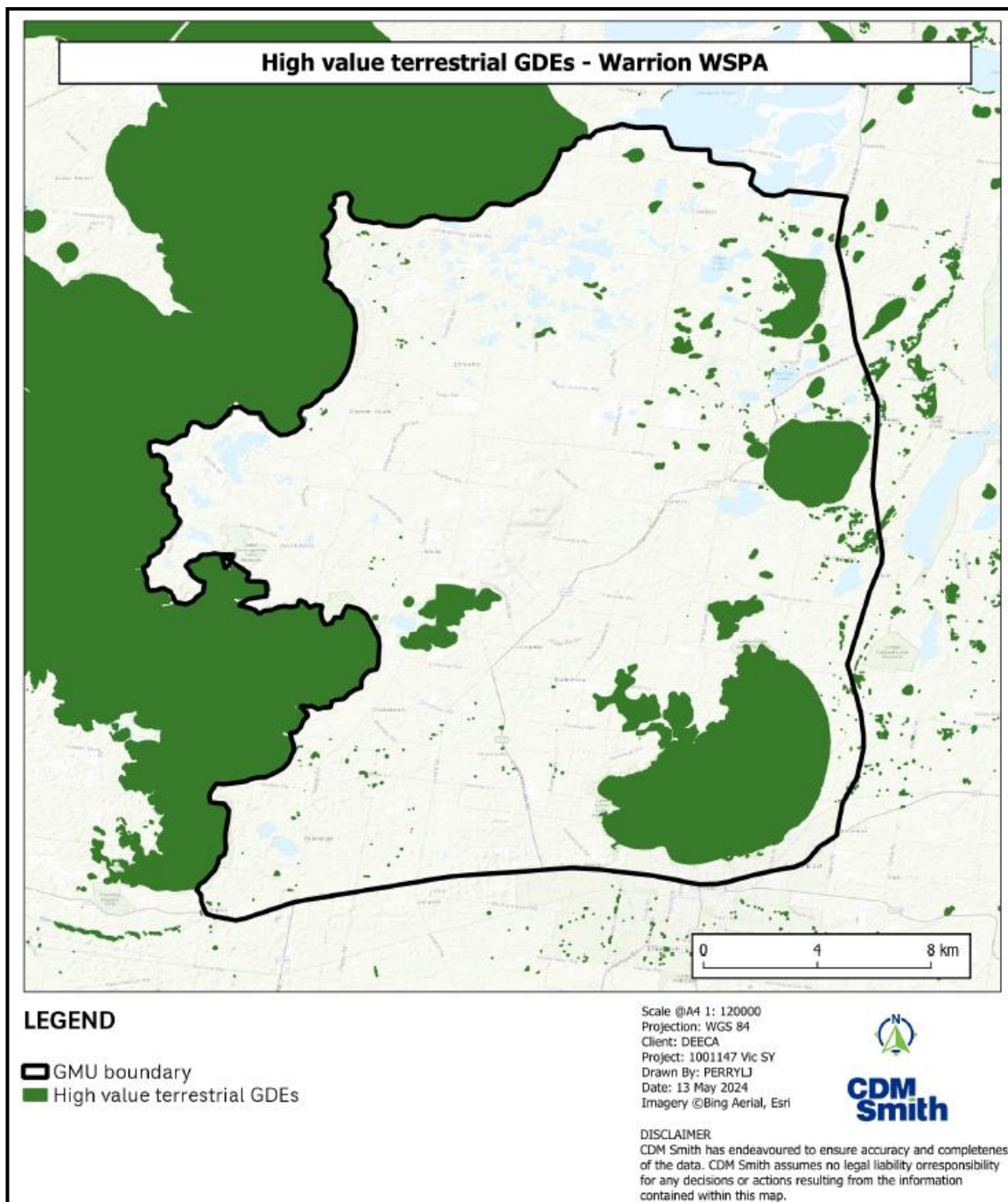


Figure HH-42 Terrestrial GDEs mapped within the Warrion WSPA

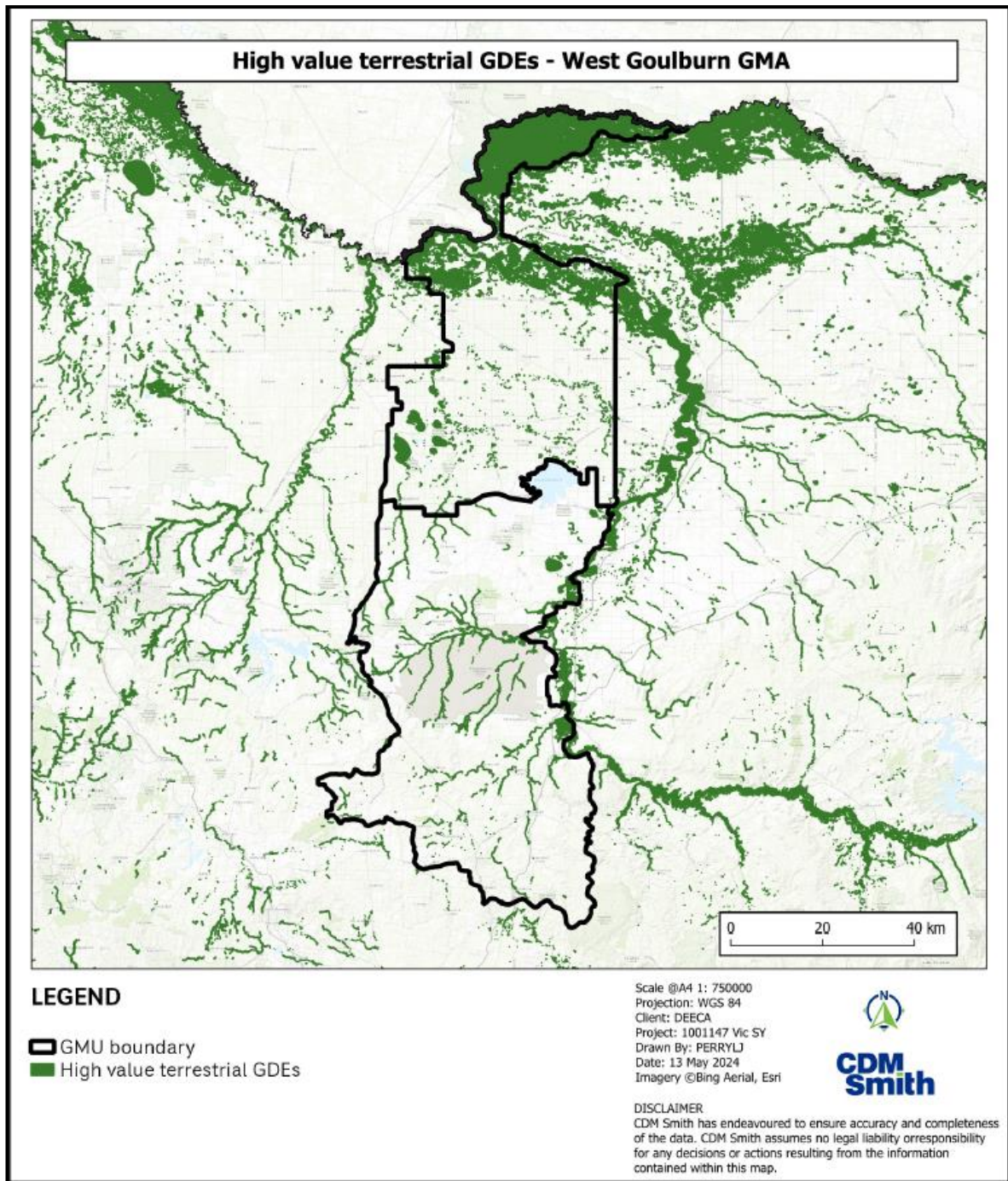


Figure HH-43 Terrestrial GDEs mapped within the West Goulburn GMA

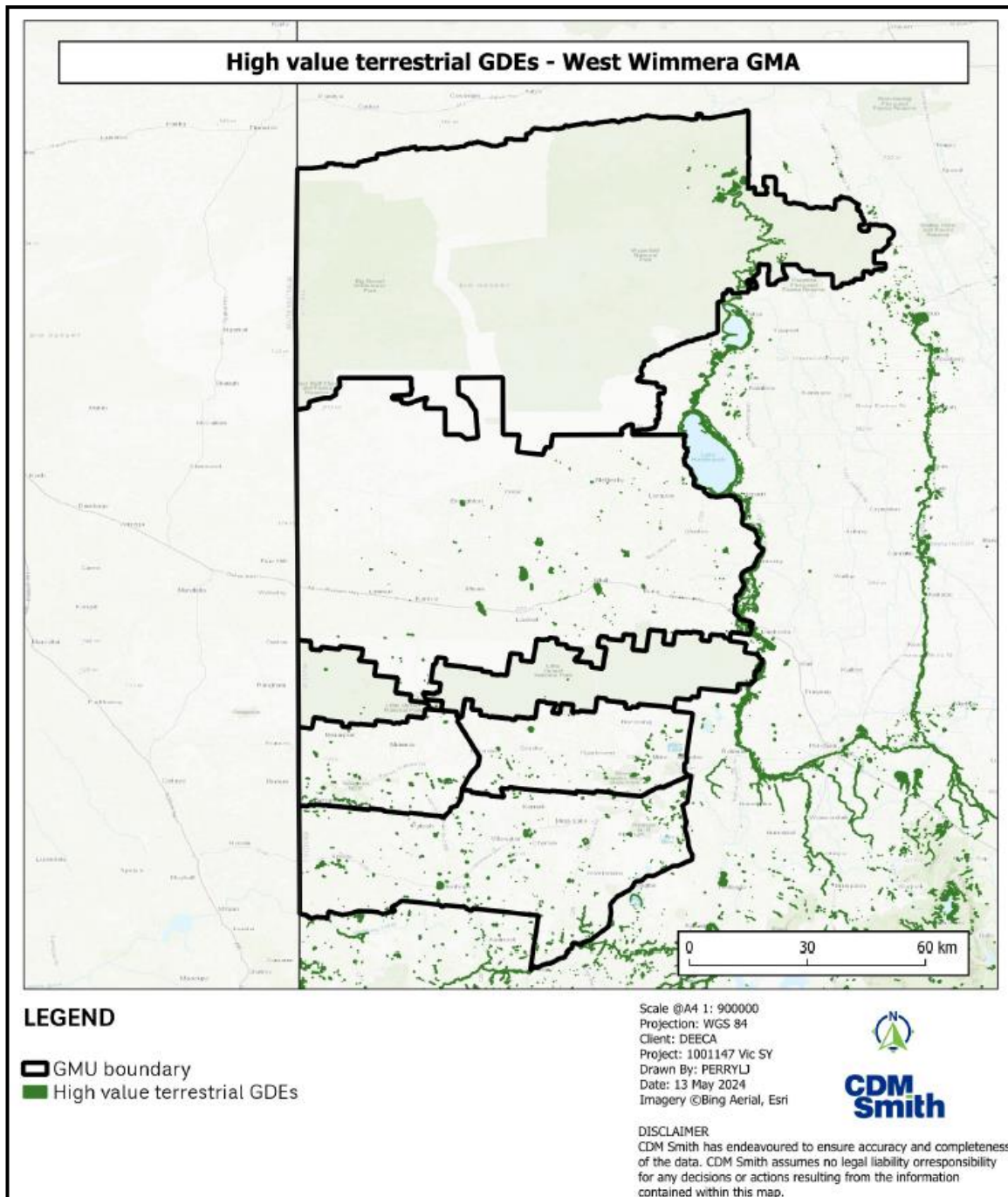


Figure HH-44 Terrestrial GDEs mapped within the West Wimmera GMA

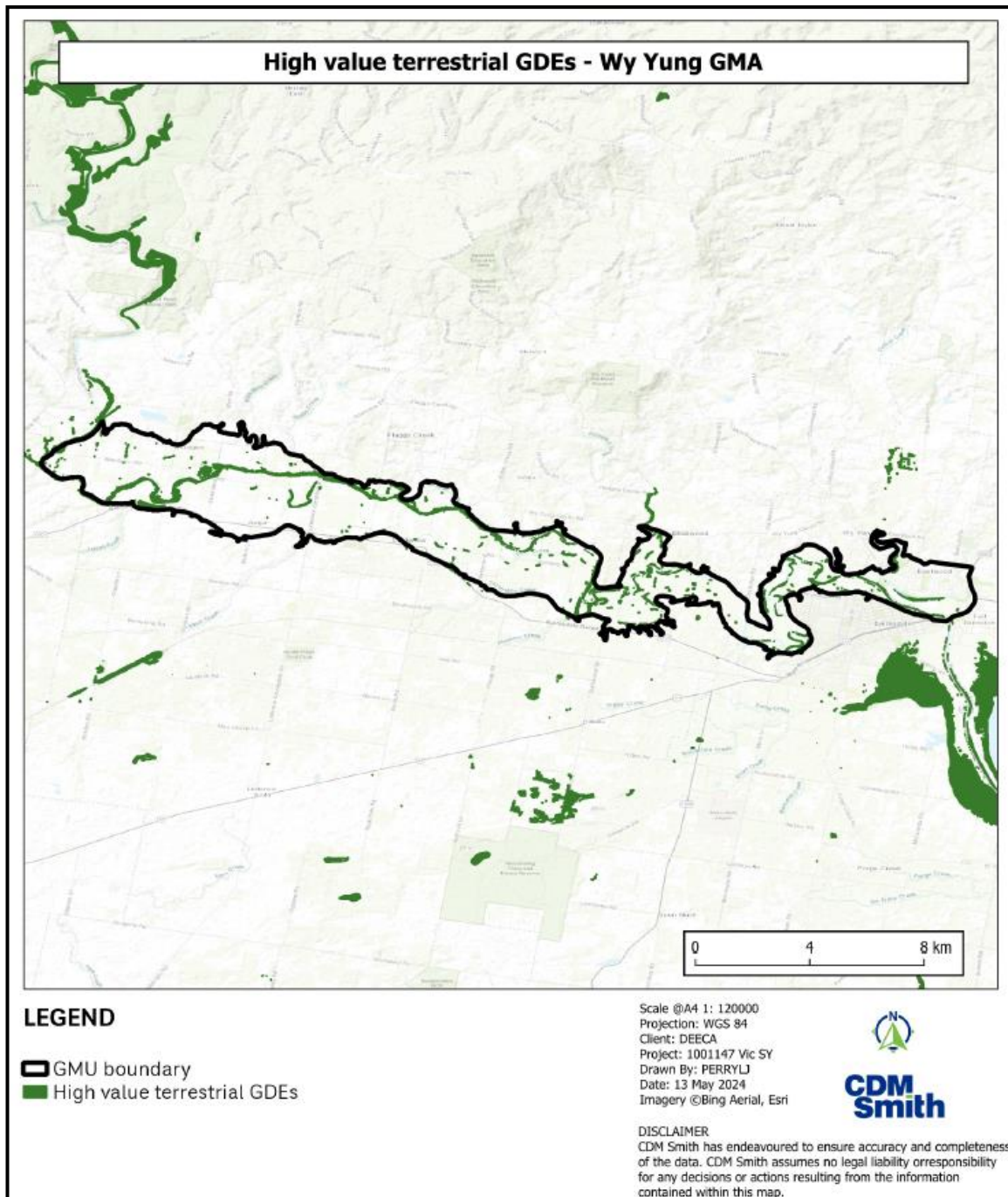


Figure HH-45 Terrestrial GDEs mapped within the Wy Yung GMA

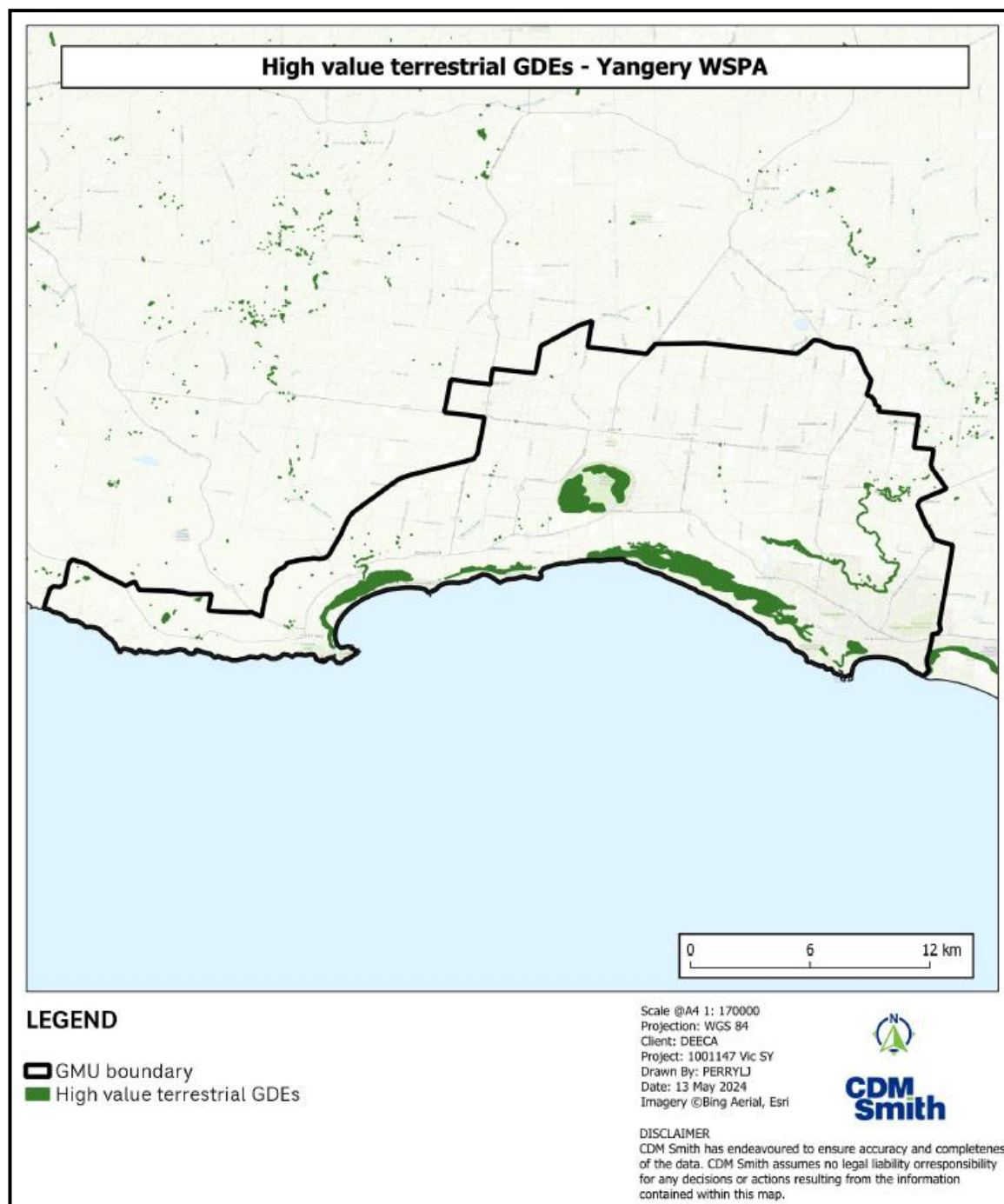


Figure HH-46 Terrestrial GDEs mapped within the Yangery WSPA

The image features a landscape photograph of a river with trees, overlaid with a blue semi-transparent rectangle containing text. The text is white and reads:

Appendix II
Synthesis information by GMU –
Terrestrial GDEs

Table II-1 Synthesis information - Terrestrial GDEs- Barnawartha GMA

Assessment area	GMU				BARNAWARTHA GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 7 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.2 (-1 to 2.8)
			2041-2065	Drawdown from baseline (m)	No CC	1.5
					MCC (LCC - HCC)	1.5 (-0.9 to 5.3)
		PCV use 375 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.4 (-0.2 to 2.8)
			2041-2065	Drawdown from baseline (m)	No CC	2.1
					MCC (LCC - HCC)	2.8 (-0.1 to 5.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	44
					MCC (LCC - HCC)	36 (626 to 20)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.1% (12% to 0.8%)	
			2041-2065	Volume (ML/yr)	No CC	30
					MCC (LCC - HCC)	18 (136 to 11)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.7% (3.0% to 0.7%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	441
					MCC (LCC - HCC)	360 (6,258 to 200)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	11% (118% to 8%)	
			2041-2065	Volume (ML/yr)	No CC	305
					MCC (LCC - HCC)	181 (1,359 to 106)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	7% (30% to 7%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	882		
			MCC (LCC - HCC)	719 (12,515 to 400)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	22% (236% to 15%)			
	2041-2065	Volume (ML/yr)	No CC	609		
			MCC (LCC - HCC)	362 (2,717 to 212)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	15% (60% to 14%)				

Table II-2 Synthesis information – Terrestrial GDEs- Broken GMA

Assessment area	GMU				BROKEN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 654 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5	
					MCC (LCC - HCC)	2 (0.4 to 3.1)	
			2041-2065	Drawdown from baseline (m)	No CC	1.9	
					MCC (LCC - HCC)	1.9 (0.5 to 5.6)	
		PCV use 3,389 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.6	
					MCC (LCC - HCC)	2.1 (1.2 to 3.1)	
			2041-2065	Drawdown from baseline (m)	No CC	2.1	
					MCC (LCC - HCC)	3.2 (0.9 to 5.4)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	301	
					MCC (LCC - HCC)	234 (381 to 164)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.04% (0.05% to 0.04%)	
				2041-2065	Volume (ML/yr)	No CC	219
						MCC (LCC - HCC)	158 (435 to 94)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.04% (0.07% to 0.04%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,011	
					MCC (LCC - HCC)	2,345 (3,805 to 1,642)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.41% (0.54% to 0.38%)	
				2041-2065	Volume (ML/yr)	No CC	2,191
						MCC (LCC - HCC)	1,579 (4,353 to 941)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.36% (0.73% to 0.35%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,023			
			MCC (LCC - HCC)	4,690 (7,610 to 3,284)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.8% (1.1% to 0.8%)			
		2041-2065	Volume (ML/yr)	No CC	4,382		
				MCC (LCC - HCC)	3,159 (8,705 to 1,883)		
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.7% (1.5% to 0.7%)			

Table II-3 Synthesis information – Terrestrial GDEs- Bungaree GMA

Assessment area	GMU				BUNGAREE GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 2,037 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.5 (-0.3 to 1.1)
			2041-2065	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.2 (0 to 2)
		PCV use 4,234 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.6
					MCC (LCC - HCC)	4.9 (2.3 to 7.3)
			2041-2065	Drawdown from baseline (m)	No CC	3.0
					MCC (LCC - HCC)	6.3 (0.2 to 12.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	184
					MCC (LCC - HCC)	138 (275 to 94)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.33% (0.52% to 0.27%)
			2041-2065	Volume (ML/yr)	No CC	143
					MCC (LCC - HCC)	109 (1,042 to 57)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.34% (2.34% to 0.27%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,842
					MCC (LCC - HCC)	1,384 (2,749 to 941)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	3.3% (5.2% to 2.7%)
			2041-2065	Volume (ML/yr)	No CC	1,427
					MCC (LCC - HCC)	1,094 (10,421 to 575)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	3.5% (23.4% to 2.7%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,684		
			MCC (LCC - HCC)	2,768 (5,499 to 1,882)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	7% (10% to 5%)		
	2041-2065	Volume (ML/yr)	No CC	2,855		
			MCC (LCC - HCC)	2,188 (20,843 to 1,149)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	7% (47% to 5%)			

Table II-4 Synthesis information – Terrestrial GDEs- Cardigan GMA

Assessment area	GMU					CARDIGAN GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 537 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	1.1 (0.2 to 1.5)
		2041-2065	Drawdown from baseline (m)	No CC	0.6	
				MCC (LCC - HCC)	0.6 (0.6 to 2.4)	
		PCV use 2,742 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.9
					MCC (LCC - HCC)	5.3 (2.6 to 7.6)
		2041-2065	Drawdown from baseline (m)	No CC	3.4	
				MCC (LCC - HCC)	6.8 (0.8 to 12.1)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	107
					MCC (LCC - HCC)	80 (150 to 57)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.20% (0.30% to 0.16%)	
			2041-2065	Volume (ML/yr)	No CC	99
					MCC (LCC - HCC)	64 (366 to 36)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.22% (0.88% to 0.14%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,066
					MCC (LCC - HCC)	796 (1,501 to 572)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		2.0% (3.0% to 1.6%)	
			2041-2065	Volume (ML/yr)	No CC	988
					MCC (LCC - HCC)	639 (3,660 to 362)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	2.2% (8.8% to 1.4%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,131		
			MCC (LCC - HCC)	1,592 (3,002 to 1,143)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		4.0% (6.0% to 3.3%)			
	2041-2065	Volume (ML/yr)	No CC	1,976		
			MCC (LCC - HCC)	1,278 (7,319 to 724)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	4.4% (17.5% to 2.8%)				

Table II-5 Synthesis information – Terrestrial GDEs- Central Victorian Mineral Spring GMA

Assessment area	CENTRAL VICTORIAN MINERAL SPRINGS GMA					
	GMU					
Assessment area	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 1,369 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
					MCC (LCC - HCC)	2.5 (-0.5 to 3.6)
		2041-2065	Drawdown from baseline (m)	No CC	1.7	
				MCC (LCC - HCC)	1.7 (-0.1 to 7.2)	
		PCV use 4,092 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.0
					MCC (LCC - HCC)	4.4 (2 to 5.8)
		2041-2065	Drawdown from baseline (m)	No CC	3.4	
				MCC (LCC - HCC)	6.6 (0.9 to 11)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	188
					MCC (LCC - HCC)	131 (278 to 103)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.03% (0.05% to 0.03%)	
			2041-2065	Volume (ML/yr)	No CC	133
					MCC (LCC - HCC)	89 (378 to 55)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.03% (0.09% to 0.03%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,879
					MCC (LCC - HCC)	1,308 (2,778 to 1,030)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.26% (0.51% to 0.32%)	
			2041-2065	Volume (ML/yr)	No CC	1,333
					MCC (LCC - HCC)	888 (3,783 to 549)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.26% (0.87% to 0.34%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,758		
			MCC (LCC - HCC)	2,616 (5,556 to 2,060)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		0.5% (1.0% to 0.6%)			
	2041-2065	Volume (ML/yr)	No CC	2,666		
			MCC (LCC - HCC)	1,776 (7,567 to 1,098)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.5% (1.7% to 0.7%)				

Table II-6 Synthesis information – Terrestrial GDEs- Colongulac GMA

Assessment area	GMU				COLONGULAC GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 484 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.9
					MCC (LCC - HCC)	-0.1 (-1.3 to 1.1)
			2041-2065	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	0.0 (-0.6 to 2.9)
		PCV use 1,718 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.8
					MCC (LCC - HCC)	0.3 (-1.8 to 2.4)
			2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	2.5 (-0.6 to 5.2)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	1,229 (- to 119)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	2.23% (- to 0.26%)
			2041-2065	Volume (ML/yr)	No CC	95
					MCC (LCC - HCC)	128 (- to 56)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.30% (- to 0.16%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	12,294 (- to 1,195)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	22% (- to 3%)
			2041-2065	Volume (ML/yr)	No CC	953
					MCC (LCC - HCC)	1,277 (- to 559)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	3% (- to 2%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-		
			MCC (LCC - HCC)	24,588 (- to 2,390)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	45% (- to 5%)		
	2041-2065	Volume (ML/yr)	No CC	1,907		
			MCC (LCC - HCC)	2,553 (- to 1,119)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	6% (- to 3%)			

Table II-7 Synthesis information – Denison GMA

Assessment area	GMU					DENISON GMA		
		Representative Suite/bore						
	Aquifer							
	Water system depth boundary (m below natural surface)							
Catchment	Permissible Consumptive Volume (ML/yr)							
	Licensed Entitlement (ML/yr)							
	Licensed avg use (ML/yr)							
Environmental metric	Terrestrial GDEs	Avg Use 5,580 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1		
					MCC (LCC - HCC)	1.3 (0.3 to 1.6)		
		2041-2065	Drawdown from baseline (m)	No CC	1.3			
				MCC (LCC - HCC)	1.3 (0.8 to 2.3)			
		PCV use 9,734 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5		
					MCC (LCC - HCC)	1.7 (1.2 to 2.2)		
		2041-2065	Drawdown from baseline (m)	No CC	1.9			
				MCC (LCC - HCC)	2.4 (1.4 to 3.2)			
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	791		
					MCC (LCC - HCC)	704 (1,025 to 586)		
				Proportion of recharge (%)	No CC	NA		
			2041-2065	Volume (ML/yr)	No CC	513		
					MCC (LCC - HCC)	518 (766 to 399)		
				Proportion of recharge (%)	No CC	NA		
		2041-2065	Proportion of recharge (%)	MCC (LCC - HCC)	2.2% (2.5% to 2.3%)			
				2021-2040	Volume (ML/yr)	No CC	7,905	
						MCC (LCC - HCC)	7,043 (10,246 to 5,856)	
		Proportion of recharge (%)	No CC		NA			
		Use at 1 metre drawdown	2041-2065	Volume (ML/yr)	No CC	5,132		
					MCC (LCC - HCC)	5,183 (7,659 to 3,992)		
				Proportion of recharge (%)	No CC	NA		
			2041-2065	Proportion of recharge (%)	MCC (LCC - HCC)	22% (25% to 23%)		
					2021-2040	Volume (ML/yr)	No CC	15,811
							MCC (LCC - HCC)	14,085 (20,491 to 11,712)
Proportion of recharge (%)	No CC	NA						
Use at 2 metre drawdown	2041-2065	Volume (ML/yr)	No CC	10,265				
			MCC (LCC - HCC)	10,366 (15,319 to 7,984)				
		Proportion of recharge (%)	No CC	NA				
	2041-2065	Proportion of recharge (%)	MCC (LCC - HCC)	44% (50% to 46%)				

Table II-8 Synthesis information – Terrestrial GDEs- Deutgam WSPA

Assessment area	GMU					DEUTGAM WSPA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 708 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.5 (-0.3 to 1)
			2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0 to 2)
		PCV use 4,274 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
					MCC (LCC - HCC)	2.1 (0.9 to 3.1)
			2041-2065	Drawdown from baseline (m)	No CC	2.6
					MCC (LCC - HCC)	3.8 (1.6 to 5.8)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	336
					MCC (LCC - HCC)	261 (466 to 189)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	1.7% (2.5% to 1.5%)
			2041-2065	Volume (ML/yr)	No CC	143
					MCC (LCC - HCC)	141 (252 to 100)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	1.1% (1.5% to 1.1%)
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,356
					MCC (LCC - HCC)	2,613 (4,664 to 1,893)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	17% (25% to 15%)
			2041-2065	Volume (ML/yr)	No CC	1,429
					MCC (LCC - HCC)	1,414 (2,523 to 1,005)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	11% (15% to 11%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,713		
			MCC (LCC - HCC)	5,227 (9,328 to 3,786)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	35% (49% to 30%)		
	2041-2065	Volume (ML/yr)	No CC	2,857		
			MCC (LCC - HCC)	2,828 (5,046 to 2,009)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	23% (29% to 22%)		

Table II-9 Synthesis information – Terrestrial GDEs- Eildon GMA

Assessment area	GMU					EILDON GMA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 164 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.6 (-0.7 to 2.6)
			2041-2065	Drawdown from baseline (m)	No CC	1.3
					MCC (LCC - HCC)	1.3 (0.2 to 4.3)
		PCV use 501 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.6
					MCC (LCC - HCC)	2.1 (1 to 3.1)
			2041-2065	Drawdown from baseline (m)	No CC	2.3
					MCC (LCC - HCC)	3.3 (1.1 to 5.2)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	40
					MCC (LCC - HCC)	32 (63 to 23)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.003% (0.005% to 0.003%)	
			2041-2065	Volume (ML/yr)	No CC	20
					MCC (LCC - HCC)	20 (45 to 13)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.002% (0.004% to 0.003%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	398
					MCC (LCC - HCC)	316 (632 to 228)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.028% (0.045% to 0.028%)	
			2041-2065	Volume (ML/yr)	No CC	203
					MCC (LCC - HCC)	204 (453 to 134)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.023% (0.038% to 0.030%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	797		
			MCC (LCC - HCC)	632 (1,263 to 456)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	0.056% (0.090% to 0.056%)			
	2041-2065	Volume (ML/yr)	No CC	407		
			MCC (LCC - HCC)	408 (906 to 267)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.046% (0.076% to 0.060%)				

Table II-10 Synthesis information – Terrestrial GDEs- Frankston GMA

Assessment area	GMU					FRANKSTON GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 56 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.5 (0.1 to 2.3)
		2041-2065	Drawdown from baseline (m)	No CC	1.4	
				MCC (LCC - HCC)	1.4 (0.6 to 3.9)	
		PCV use 665 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	2.4 (0.9 to 3.6)
		2041-2065	Drawdown from baseline (m)	No CC	2.1	
				MCC (LCC - HCC)	3.7 (1 to 6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	56
					MCC (LCC - HCC)	40 (89 to 28)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	54
					MCC (LCC - HCC)	27 (73 to 17)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	557
					MCC (LCC - HCC)	399 (892 to 280)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	543
					MCC (LCC - HCC)	266 (731 to 169)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,114
					MCC (LCC - HCC)	797 (1,785 to 559)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,087
MCC (LCC - HCC)	531 (1,462 to 338)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	2.1% (4.3% to 1.7%)		

Table II-11 Synthesis information – Terrestrial GDEs- Gerangamete GMA

Assessment area	GMU				GERANGAMETE GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 0 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.4
					MCC (LCC - HCC)	-0.8 (-0.9 to 0.7)
			2041-2065	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	0.4 (-0.4 to 2.6)
		PCV use 11 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.6
					MCC (LCC - HCC)	3.5 (2.5 to 5.8)
			2041-2065	Drawdown from baseline (m)	No CC	9.4
					MCC (LCC - HCC)	10.2 (8.1 to 13)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	0
					MCC (LCC - HCC)	0 (0 to 0)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0% (0% to 0%)	
			2041-2065	Volume (ML/yr)	No CC	0
					MCC (LCC - HCC)	0 (0 to 0)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0% (0% to 0%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3.0
					MCC (LCC - HCC)	3.0 (3.0 to 2.0)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.003% (0.003% to 0.003%)	
			2041-2065	Volume (ML/yr)	No CC	1.0
					MCC (LCC - HCC)	1.0 (1.0 to 1.0)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.002% (0.001% to 0.002%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6		
			MCC (LCC - HCC)	6 (7 to 4)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.007% (0.007% to 0.005%)			
	2041-2065	Volume (ML/yr)	No CC	2.0		
			MCC (LCC - HCC)	2.0 (3.0 to 2.0)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	0.003% (0.004% to 0.004%)				

Table II-12 Synthesis information – Terrestrial GDEs- Glenelg WSPA

Assessment area	GMU					GLENELG WSPA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 6,068 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	0.0 (-0.3 to 0.3)
		2041-2065	Drawdown from baseline (m)	No CC	0.0	
				MCC (LCC - HCC)	0.0 (-0.3 to 1)	
		PCV use 23,625 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.5 (-0.1 to 1)
		2041-2065	Drawdown from baseline (m)	No CC	0.8	
				MCC (LCC - HCC)	1.6 (0.3 to 2.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	9,477
					MCC (LCC - HCC)	4,771 (24,457 to 3,049)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	3% (11% to 2%)	
			2041-2065	Volume (ML/yr)	No CC	3,219
					MCC (LCC - HCC)	1,863 (5,152 to 1,259)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1% (2% to 1%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	94,769
					MCC (LCC - HCC)	47,712 (244,570 to 30,489)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	29% (107% to 22%)	
			2041-2065	Volume (ML/yr)	No CC	32,187
					MCC (LCC - HCC)	18,626 (51,519 to 12,585)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	13% (24% to 12%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	189,538		
			MCC (LCC - HCC)	95,425 (489,139 to 60,978)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	58% (215% to 44%)			
	2041-2065	Volume (ML/yr)	No CC	64,373		
			MCC (LCC - HCC)	37,253 (103,038 to 25,170)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	26% (47% to 23%)				

Table II-13 Synthesis information – Terrestrial GDEs- Glenormiston GMA

Assessment area	GMU					GLENORMISTON GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 1,253 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6	
					MCC (LCC - HCC)	2.2 (0.1 to 2.7)	
			2041-2065	Drawdown from baseline (m)	No CC	1.4	
					MCC (LCC - HCC)	1.4 (0.9 to 4.5)	
			PCV use 2,399 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
						MCC (LCC - HCC)	2.2 (-0.4 to 3.4)
		2041-2065		Drawdown from baseline (m)	No CC	1.1	
					MCC (LCC - HCC)	3.7 (0.2 to 5.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,176	
					MCC (LCC - HCC)	181 (- to 114)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.0% (- to 0.7%)	
			2041-2065	Volume (ML/yr)	No CC	726	
					MCC (LCC - HCC)	130 (- to 75)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.9% (- to 0.7%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,762	
					MCC (LCC - HCC)	1,807 (- to 1,145)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	10% (- to 7%)	
			2041-2065	Volume (ML/yr)	No CC	7,262	
					MCC (LCC - HCC)	1,299 (- to 750)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	9% (- to 7%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	23,524			
			MCC (LCC - HCC)	3,614 (- to 2,290)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	20% (- to 15%)			
	2041-2065	Volume (ML/yr)	No CC	14,525			
			MCC (LCC - HCC)	2,599 (- to 1,500)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	19% (- to 14%)			

Table II-14 Synthesis information – Terrestrial GDEs- Gympowen Zone (West Wimmera)

Assessment area	GMU		GYMBOWEN ZONE (WEST WIMMERA)			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 37 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.7 (0.3 to 0.8)
		2041-2065	Drawdown from baseline (m)	No CC	0.7	
				MCC (LCC - HCC)	0.7 (0.4 to 1.5)	
		PCV use 63 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.9 (0.3 to 1.4)
		2041-2065	Drawdown from baseline (m)	No CC	1.0	
				MCC (LCC - HCC)	1.7 (0.3 to 2.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	14
					MCC (LCC - HCC)	10 (23 to 7)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.012% (0.022% to 0.012%)	
		2041-2065	Volume (ML/yr)	No CC	6	
				MCC (LCC - HCC)	6 (19 to 4)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.011% (0.024% to 0.014%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	140
					MCC (LCC - HCC)	95 (234 to 69)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.11% (0.23% to 0.12%)	
		2041-2065	Volume (ML/yr)	No CC	60	
				MCC (LCC - HCC)	57 (194 to 36)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.11% (0.24% to 0.12%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	281		
			MCC (LCC - HCC)	190 (468 to 138)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.23% (0.45% to 0.24%)			
2041-2065	Volume (ML/yr)	No CC	119			
		MCC (LCC - HCC)	114 (388 to 73)			
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.21% (0.48% to 0.25%)			

Table II-15 Synthesis information – Terrestrial GDEs- Hawkesdale GMA

Assessment area	GMU					HAWKESDALE GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 4,790 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.0	
					MCC (LCC - HCC)	0.5 (-0.3 to 0.7)	
			2041-2065	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.3 (0 to 1.3)	
			PCV use 11,192 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
						MCC (LCC - HCC)	1.1 (0.1 to 1.7)
		2041-2065	Drawdown from baseline (m)	No CC	1.1		
				MCC (LCC - HCC)	2 (0.7 to 2.8)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,667	
					MCC (LCC - HCC)	1,420 (9,075 to 963)	
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	0.5% (2.5% to 0.4%)		
			2041-2065	Volume (ML/yr)	No CC	997	
					MCC (LCC - HCC)	814 (1,912 to 582)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.3% (0.6% to 0.3%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	26,672	
					MCC (LCC - HCC)	14,200 (90,755 to 9,626)	
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	5% (25% to 4%)		
			2041-2065	Volume (ML/yr)	No CC	9,965	
					MCC (LCC - HCC)	8,138 (19,120 to 5,816)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	3.0% (5.9% to 3.0%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	53,343			
			MCC (LCC - HCC)	28,399 (181,509 to 19,253)			
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	9% (51% to 7%)				
	2041-2065	Volume (ML/yr)	No CC	19,931			
			MCC (LCC - HCC)	16,277 (38,240 to 11,631)			
Proportion of recharge (%)	No CC	NA					
	MCC (LCC - HCC)	6% (12% to 6%)					

Table II-16 Synthesis information – Terrestrial GDEs- Heywood GMA

Assessment area	GMU					HEYWOOD GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 2,320 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.1	
					MCC (LCC - HCC)	-0.1 (-0.2 to 0.1)	
		2041-2065	Drawdown from baseline (m)	No CC	-0.1		
				MCC (LCC - HCC)	-0.1 (-0.2 to 0.4)		
		PCV use 7,137 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5	
					MCC (LCC - HCC)	0.6 (0.3 to 0.9)	
		2041-2065	Drawdown from baseline (m)	No CC	0.9		
				MCC (LCC - HCC)	1.1 (0.7 to 1.5)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,676	
					MCC (LCC - HCC)	1,432 (2,115 to 1,014)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	1,796	
					MCC (LCC - HCC)	727 (978 to 571)	
				Proportion of recharge (%)	No CC	NA	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	16,756	
					MCC (LCC - HCC)	14,316 (21,152 to 10,140)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	17,959	
					MCC (LCC - HCC)	7,269 (9,781 to 5,710)	
				Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	33,511	
					MCC (LCC - HCC)	28,631 (42,303 to 20,280)	
				Proportion of recharge (%)	No CC	NA	
			2041-2065	Volume (ML/yr)	No CC	35,917	
MCC (LCC - HCC)	14,537 (19,562 to 11,420)						
Proportion of recharge (%)	No CC			NA			
			MCC (LCC - HCC)	16% (17% to 20%)			

Table II-17 Synthesis information – Terrestrial GDEs- Jan Juc GMA

Assessment area	GMU					JAN JUC GMA	
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 370 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-1.1	
					MCC (LCC - HCC)	-1.3 (-1.7 to -0.1)	
			2041-2065	Drawdown from baseline (m)	No CC	-0.1	
					MCC (LCC - HCC)	-0.1 (-1 to 1.9)	
		PCV use 4,250 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.7	
					MCC (LCC - HCC)	4.7 (3.9 to 6.3)	
			2041-2065	Drawdown from baseline (m)	No CC	13.3	
					MCC (LCC - HCC)	13.8 (12.4 to 15.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	80	
					MCC (LCC - HCC)	79 (88 to 68)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.35% (0.35% to 0.37%)	
				2041-2065	Volume (ML/yr)	No CC	29
						MCC (LCC - HCC)	31 (33 to 29)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.18% (0.16% to 0.26%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	795	
					MCC (LCC - HCC)	790 (885 to 677)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	3.5% (3.5% to 3.6%)	
				2041-2065	Volume (ML/yr)	No CC	289
						MCC (LCC - HCC)	308 (331 to 289)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.8% (1.6% to 2.6%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,591			
			MCC (LCC - HCC)	1,580 (1,770 to 1,353)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	7% (7% to 7%)			
		2041-2065	Volume (ML/yr)	No CC	577		
				MCC (LCC - HCC)	616 (661 to 577)		
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	4% (3% to 5%)			

Table II-18 Synthesis information – Terrestrial GDEs- Kiewa GMA

Assessment area	GMU				KIEWA GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 666 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	2.4 (-0.7 to 3.6)
			2041-2065	Drawdown from baseline (m)	No CC	2.2
				MCC (LCC - HCC)	2.2 (0 to 5.8)	
		PCV use 2,864 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.0
					MCC (LCC - HCC)	2.6 (0.7 to 3.8)
			2041-2065	Drawdown from baseline (m)	No CC	2.7
				MCC (LCC - HCC)	3.7 (0.7 to 5.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	195
					MCC (LCC - HCC)	154 (488 to 111)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.017% (0.050% to 0.015%)	
			2041-2065	Volume (ML/yr)	No CC	198
					MCC (LCC - HCC)	109 (400 to 70)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.013% (0.045% to 0.013%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,950
					MCC (LCC - HCC)	1,543 (4,882 to 1,109)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.17% (0.50% to 0.15%)	
			2041-2065	Volume (ML/yr)	No CC	1,976
					MCC (LCC - HCC)	1,086 (3,998 to 698)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.13% (0.45% to 0.13%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,901		
			MCC (LCC - HCC)	3,085 (9,765 to 2,219)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	0.33% (1.00% to 0.30%)			
	2041-2065	Volume (ML/yr)	No CC	3,951		
			MCC (LCC - HCC)	2,173 (7,995 to 1,396)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.27% (0.90% to 0.26%)				

Table II-19 Synthesis information – Terrestrial GDEs- Koo Wee Rup WSPA

Assessment area	GMU				KOO WEE RUP WSPA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 3,483 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.0
				MCC (LCC - HCC)	1.7 (0.3 to 2.6)	
		2041-2065	Drawdown from baseline (m)	No CC	1.7	
			MCC (LCC - HCC)	1.7 (0.9 to 4.5)		
		PCV use 11,497 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.0
				MCC (LCC - HCC)	3 (1.2 to 4.4)	
		2041-2065	Drawdown from baseline (m)	No CC	3.0	
			MCC (LCC - HCC)	4.7 (1.7 to 7.3)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	715
				MCC (LCC - HCC)	514 (1,102 to 371)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.16% (0.30% to 0.14%)	
			2041-2065	Volume (ML/yr)	No CC	451
				MCC (LCC - HCC)	339 (736 to 228)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.13% (0.22% to 0.13%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	7,147
				MCC (LCC - HCC)	5,144 (11,024 to 3,713)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.6% (3.0% to 1.4%)	
			2041-2065	Volume (ML/yr)	No CC	4,507
				MCC (LCC - HCC)	3,390 (7,362 to 2,275)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.3% (2.2% to 1.3%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	14,294		
		MCC (LCC - HCC)	10,289 (22,048 to 7,426)			
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	3.3% (5.9% to 2.8%)			
	2041-2065	Volume (ML/yr)	No CC	9,014		
		MCC (LCC - HCC)	6,781 (14,725 to 4,551)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	2.5% (4.3% to 2.7%)				

Table II-20 Synthesis information – Terrestrial GDEs- Lancefield GMA

Assessment area	GMU					LANCEFIELD GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 206 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	2.7 (-0.2 to 3.1)
		2041-2065	Drawdown from baseline (m)	No CC	1.6	
				MCC (LCC - HCC)	1.6 (0.3 to 5.1)	
		PCV use 968 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.7
					MCC (LCC - HCC)	4.1 (1.7 to 5.3)
		2041-2065	Drawdown from baseline (m)	No CC	2.0	
				MCC (LCC - HCC)	4.8 (-0.3 to 8.3)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	57
					MCC (LCC - HCC)	38 (99 to 30)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.6% (0.8% to 0.6%)	
			2041-2065	Volume (ML/yr)	No CC	47
					MCC (LCC - HCC)	35 (- to 19)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.8% (- to 0.7%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	575
					MCC (LCC - HCC)	375 (992 to 298)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		6% (8% to 6%)	
			2041-2065	Volume (ML/yr)	No CC	472
					MCC (LCC - HCC)	346 (- to 193)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	8% (- to 7%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,150		
			MCC (LCC - HCC)	750 (1,984 to 595)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		12% (15% to 12%)			
	2041-2065	Volume (ML/yr)	No CC	945		
			MCC (LCC - HCC)	692 (- to 386)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	17% (- to 15%)				

Table II-21 Synthesis information – Terrestrial GDEs- Leongatha GMA

Assessment area	GMU				LEONGATHA GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 121 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.8 (-0.1 to 1.4)	
			2041-2065	Drawdown from baseline (m)	No CC	1.0	
					MCC (LCC - HCC)	1 (0.4 to 2.7)	
		PCV use 1,409 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.2	
					MCC (LCC - HCC)	1.9 (0.6 to 2.7)	
			2041-2065	Drawdown from baseline (m)	No CC	2.9	
					MCC (LCC - HCC)	3.9 (2.3 to 4.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	109	
					MCC (LCC - HCC)	80 (154 to 64)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.14% (0.22% to 0.13%)	
				2041-2065	Volume (ML/yr)	No CC	64
						MCC (LCC - HCC)	43 (62 to 37)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.09% (0.10% to 0.10%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,089	
					MCC (LCC - HCC)	803 (1,535 to 642)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.4% (2.2% to 1.3%)	
				2041-2065	Volume (ML/yr)	No CC	642
						MCC (LCC - HCC)	435 (620 to 368)
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.9% (1.0% to 1.0%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,178			
			MCC (LCC - HCC)	1,607 (3,070 to 1,284)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	2.8% (4.5% to 2.6%)			
		2041-2065	Volume (ML/yr)	No CC	1,284		
				MCC (LCC - HCC)	870 (1,240 to 737)		
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	1.8% (2.0% to 2.1%)			

Table II-22 Synthesis information – Terrestrial GDEs- Loddon Highlands WSPA

Assessment area	GMU			LODDON HIGHLANDS WSPA			
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 4,954 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.4	
					MCC (LCC - HCC)	2.2 (0 to 3.6)	
			2041-2065	Drawdown from baseline (m)	No CC	1.8	
					MCC (LCC - HCC)	1.8 (0.2 to 7.7)	
			PCV use 14,559 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.1
						MCC (LCC - HCC)	4.3 (2.3 to 6.1)
		2041-2065		Drawdown from baseline (m)	No CC	3.7	
					MCC (LCC - HCC)	6.8 (1.3 to 11.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	636	
					MCC (LCC - HCC)	470 (848 to 349)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.18% (0.23% to 0.16%)	
			2041-2065	Volume (ML/yr)	No CC	483	
					MCC (LCC - HCC)	309 (1,088 to 185)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.16% (0.38% to 0.15%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,356	
					MCC (LCC - HCC)	4,705 (8,477 to 3,488)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.8% (2.3% to 1.6%)	
			2041-2065	Volume (ML/yr)	No CC	4,826	
					MCC (LCC - HCC)	3,089 (10,876 to 1,851)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.6% (3.8% to 1.5%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,712			
			MCC (LCC - HCC)	9,409 (16,954 to 6,975)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	3.5% (4.7% to 3.2%)			
	2041-2065	Volume (ML/yr)	No CC	9,651			
			MCC (LCC - HCC)	6,179 (21,752 to 3,701)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	3.2% (7.6% to 2.9%)			

Table II-23 Synthesis information – Terrestrial GDEs- Lower Campaspe Valley WSPA

Assessment area	GMU		LOWER CAMPASPE VALLEY WSPA			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 34,733 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.9
					MCC (LCC - HCC)	4.6 (1.5 to 5.7)
		2041-2065	Drawdown from baseline (m)	No CC	4.1	
				MCC (LCC - HCC)	4.1 (2.3 to 8.9)	
		PCV use 63,411 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.3
					MCC (LCC - HCC)	5.1 (3.6 to 6.2)
		2041-2065	Drawdown from baseline (m)	No CC	4.9	
				MCC (LCC - HCC)	6.6 (3.1 to 9.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,816
					MCC (LCC - HCC)	1,578 (2,221 to 1,342)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		1.1% (1.2% to 1.3%)	
			2041-2065	Volume (ML/yr)	No CC	1,598
					MCC (LCC - HCC)	1,244 (2,200 to 867)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	1.2% (1.4% to 1.3%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	18,163
					MCC (LCC - HCC)	15,783 (22,211 to 13,423)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		11% (12% to 13%)	
			2041-2065	Volume (ML/yr)	No CC	15,976
					MCC (LCC - HCC)	12,443 (22,004 to 8,669)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	12% (14% to 13%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	36,326		
			MCC (LCC - HCC)	31,566 (44,423 to 26,847)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		22% (23% to 25%)			
	2041-2065	Volume (ML/yr)	No CC	31,952		
			MCC (LCC - HCC)	24,885 (44,007 to 17,338)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	24% (29% to 27%)				

Table II-24 Synthesis information – Terrestrial GDEs- Lower Owens GMA

Assessment area	GMU					LOWER OVENS GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 4,933 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.3	
					MCC (LCC - HCC)	1.6 (-0.1 to 2.8)	
			2041-2065	Drawdown from baseline (m)	No CC	1.6	
					MCC (LCC - HCC)	1.6 (0 to 5.1)	
			PCV use 16,120 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.4
						MCC (LCC - HCC)	1.7 (0.8 to 2.8)
		2041-2065		Drawdown from baseline (m)	No CC	2.0	
					MCC (LCC - HCC)	2.9 (0.5 to 5.1)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,533	
					MCC (LCC - HCC)	1,268 (2,739 to 821)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.09% (0.15% to 0.07%)	
			2041-2065	Volume (ML/yr)	No CC	1,332	
					MCC (LCC - HCC)	789 (2,858 to 458)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.07% (0.18% to 0.06%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	15,326	
					MCC (LCC - HCC)	12,681 (27,393 to 8,214)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.88% (1.45% to 0.72%)	
			2041-2065	Volume (ML/yr)	No CC	13,316	
					MCC (LCC - HCC)	7,890 (28,577 to 4,579)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.68% (1.77% to 0.63%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	30,652			
			MCC (LCC - HCC)	25,363 (54,787 to 16,429)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	1.8% (2.9% to 1.4%)			
	2041-2065	Volume (ML/yr)	No CC	26,633			
			MCC (LCC - HCC)	15,781 (57,155 to 9,158)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	1.4% (3.5% to 1.3%)			

Table II-25 Synthesis information – Terrestrial GDEs- Merrimu GMA

Assessment area	GMU				MERRIMU GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 74 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.6 (-0.2 to 1.1)	
			2041-2065	Drawdown from baseline (m)	No CC	0.6	
					MCC (LCC - HCC)	0.6 (0.1 to 2.1)	
		PCV use 203 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.5	
					MCC (LCC - HCC)	3.2 (1.8 to 4.5)	
			2041-2065	Drawdown from baseline (m)	No CC	3.4	
					MCC (LCC - HCC)	5.2 (1.9 to 8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11	
					MCC (LCC - HCC)	9 (15 to 7)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.8% (1.2% to 0.8%)	
				2041-2065	Volume (ML/yr)	No CC	8
						MCC (LCC - HCC)	5 (11 to 4)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	0.6% (1.0% to 0.8%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	111	
					MCC (LCC - HCC)	88 (147 to 66)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	8% (11% to 8%)	
				2041-2065	Volume (ML/yr)	No CC	82
						MCC (LCC - HCC)	53 (109 to 36)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	7% (10% to 7%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	222			
			MCC (LCC - HCC)	177 (294 to 132)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	17% (23% to 16%)			
		2041-2065	Volume (ML/yr)	No CC	164		
				MCC (LCC - HCC)	106 (217 to 72)		
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	14% (20% to 14%)				

Table II-26 Synthesis information – Terrestrial GDEs- Mid Goulburn GMA

Assessment area	GMU				MID GOULBURN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 3,633 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.7	
					MCC (LCC - HCC)	3.4 (1 to 4.4)	
			2041-2065	Drawdown from baseline (m)	No CC	3.0	
				MCC (LCC - HCC)	3 (1.3 to 7.2)		
		PCV use 26,966 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.0	
					MCC (LCC - HCC)	3.7 (2.5 to 4.5)	
			2041-2065	Drawdown from baseline (m)	No CC	3.7	
				MCC (LCC - HCC)	4.9 (2.3 to 7.1)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,206	
					MCC (LCC - HCC)	1,023 (1,442 to 853)	
				Proportion of recharge (%)	No CC	NA	
				2041-2065	Volume (ML/yr)	No CC	1,229
					MCC (LCC - HCC)	761 (1,371 to 546)	
			Proportion of recharge (%)		No CC	NA	
				MCC (LCC - HCC)	0.6% (0.8% to 0.6%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,060	
					MCC (LCC - HCC)	10,227 (14,422 to 8,534)	
				Proportion of recharge (%)	No CC	NA	
				2041-2065	Volume (ML/yr)	No CC	6% (7% to 6%)
					MCC (LCC - HCC)	12,293	
			Proportion of recharge (%)		No CC	7,608 (13,706 to 5,459)	
				MCC (LCC - HCC)	NA		
				MCC (LCC - HCC)	6% (8% to 6%)		
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	24,120	
	MCC (LCC - HCC)			20,454 (28,845 to 17,068)			
Proportion of recharge (%)	No CC			NA			
	2041-2065		Volume (ML/yr)	No CC	12% (14% to 12%)		
			MCC (LCC - HCC)	24,586			
Proportion of recharge (%)			No CC	15,216 (27,411 to 10,918)			
		MCC (LCC - HCC)	NA				
		MCC (LCC - HCC)	11% (15% to 12%)				

Table II-27 Synthesis information – Terrestrial GDEs- Mid Loddon GMA

Assessment area	GMU				MID LODDON GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 17,771 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.1
				MCC (LCC - HCC)	4.1 (0.8 to 5.7)	
		2041-2065	Drawdown from baseline (m)	No CC	3.4	
			MCC (LCC - HCC)	3.4 (1.2 to 11)		
		PCV use 28,238 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.5
				MCC (LCC - HCC)	4.6 (2.8 to 6.2)	
		2041-2065	Drawdown from baseline (m)	No CC	4.1	
			MCC (LCC - HCC)	7 (1.8 to 11.7)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,071
				MCC (LCC - HCC)	836 (1,399 to 639)	
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	877
				MCC (LCC - HCC)	584 (1,687 to 341)	
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	10,706
				MCC (LCC - HCC)	8,362 (13,989 to 6,393)	
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	8,772
				MCC (LCC - HCC)	5,845 (16,868 to 3,407)	
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	21,411
				MCC (LCC - HCC)	16,725 (27,978 to 12,786)	
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	17,544
MCC (LCC - HCC)	11,689 (33,736 to 6,814)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	8% (17% to 8%)		

Table II-28 Synthesis information – Terrestrial GDEs- Moe GMA

Assessment area	GMU					MOE GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 782 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	0.7 (-0.2 to 1.2)
		2041-2065	Drawdown from baseline (m)	No CC	0.8	
				MCC (LCC - HCC)	0.8 (0.3 to 2.3)	
		PCV use 2,973 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.2
					MCC (LCC - HCC)	2.8 (1.4 to 3.9)
		2041-2065	Drawdown from baseline (m)	No CC	4.0	
				MCC (LCC - HCC)	5.1 (3.1 to 6.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	147
					MCC (LCC - HCC)	123 (191 to 97)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.12% (0.15% to 0.12%)	
			2041-2065	Volume (ML/yr)	No CC	80
					MCC (LCC - HCC)	69 (97 to 55)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.08% (0.09% to 0.09%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,474
					MCC (LCC - HCC)	1,228 (1,910 to 972)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		1.2% (1.5% to 1.2%)	
			2041-2065	Volume (ML/yr)	No CC	805
					MCC (LCC - HCC)	690 (970 to 551)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.8% (0.9% to 0.9%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,949		
			MCC (LCC - HCC)	2,456 (3,819 to 1,944)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		2.4% (3.1% to 2.3%)			
	2041-2065	Volume (ML/yr)	No CC	1,609		
			MCC (LCC - HCC)	1,380 (1,941 to 1,102)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	1.7% (1.8% to 1.9%)				

Table II-29 Synthesis information – Terrestrial GDEs- Moorabbin GMA

Assessment area	GMU				MOORABBIN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 91 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.3 (0 to 2)
			2041-2065	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.1 (0.4 to 3.5)
		PCV use 257 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	2.5 (0.9 to 3.8)
			2041-2065	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	3.5 (0.4 to 6.2)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	23
					MCC (LCC - HCC)	16 (41 to 11)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.07% (0.13% to 0.06%)
			2041-2065	Volume (ML/yr)	No CC	17
					MCC (LCC - HCC)	12 (72 to 6)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.07% (0.26% to 0.06%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	227
					MCC (LCC - HCC)	157 (413 to 106)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.7% (1.3% to 0.6%)
			2041-2065	Volume (ML/yr)	No CC	171
					MCC (LCC - HCC)	117 (723 to 65)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.6% (2.6% to 0.6%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	454		
			MCC (LCC - HCC)	314 (825 to 212)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.3% (2.6% to 1.2%)		
	2041-2065	Volume (ML/yr)	No CC	342		
			MCC (LCC - HCC)	233 (1,446 to 130)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	1.3% (5.2% to 1.3%)			

Table II-30 Synthesis information – Terrestrial GDEs- Nepean GMA

Assessment area	GMU					NEPEAN GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 2,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
					MCC (LCC - HCC)	1.3 (-0.2 to 2.4)
		2041-2065	Drawdown from baseline (m)	No CC	1.6	
				MCC (LCC - HCC)	1.6 (0.6 to 4.5)	
		PCV use 4,306 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.5
					MCC (LCC - HCC)	3.1 (1.8 to 4)
		2041-2065	Drawdown from baseline (m)	No CC	5.8	
				MCC (LCC - HCC)	6.8 (5.1 to 8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	174
					MCC (LCC - HCC)	149 (215 to 123)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	80
					MCC (LCC - HCC)	72 (87 to 62)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,744
					MCC (LCC - HCC)	1,492 (2,150 to 1,229)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	800
					MCC (LCC - HCC)	718 (868 to 619)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,489
					MCC (LCC - HCC)	2,984 (4,300 to 2,457)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,600
MCC (LCC - HCC)	1,436 (1,735 to 1,239)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	8% (8% to 9%)		

Table II-31 Synthesis information – Terrestrial GDEs- Neuarpur Zone (West Wimmera)

Assessment area	GMU		NEUARPUR ZONE (WEST WIMMERA)			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 25 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.3 (0.2 to 0.4)
		2041-2065	Drawdown from baseline (m)	No CC	0.4	
				MCC (LCC - HCC)	0.4 (0.2 to 0.8)	
		PCV use 200 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.8 (0.1 to 1.4)
		2041-2065	Drawdown from baseline (m)	No CC	0.7	
				MCC (LCC - HCC)	1.6 (0 to 2.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	53
					MCC (LCC - HCC)	34 (130 to 21)
			2041-2065	Volume (ML/yr)	No CC	23
					MCC (LCC - HCC)	18 (184 to 11)
			2021-2040	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.051% (0.18% to 0.042%)
		2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.036% (0.29% to 0.029%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	532
					MCC (LCC - HCC)	338 (1,303 to 211)
			2041-2065	Volume (ML/yr)	No CC	234
					MCC (LCC - HCC)	184 (1,838 to 106)
			2021-2040	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.51% (1.79% to 0.42%)
		2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.36% (2.94% to 0.28%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,063		
			MCC (LCC - HCC)	676 (2,605 to 422)		
	2041-2065	Volume (ML/yr)	No CC	469		
			MCC (LCC - HCC)	367 (3,676 to 213)		
	2021-2040	Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.0% (3.6% to 0.8%)		
2041-2065	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.7% (5.9% to 0.6%)			

Table II-32 Synthesis information – Terrestrial GDEs- Newlingrook GMA

Assessment area	GMU					NEWLINGROOK GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 29 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-1.5
					MCC (LCC - HCC)	-2.6 (-2 to -0.7)
		2041-2065	Drawdown from baseline (m)	No CC	-0.9	
				MCC (LCC - HCC)	-0.9 (-1.9 to 1.6)	
		PCV use 1,922 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	-0.6 (-0.4 to 1.4)
		2041-2065	Drawdown from baseline (m)	No CC	4.4	
				MCC (LCC - HCC)	4.1 (3.3 to 6.7)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	165
					MCC (LCC - HCC)	294 (268 to 109)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	28
					MCC (LCC - HCC)	41 (46 to 31)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,647
					MCC (LCC - HCC)	2,943 (2,684 to 1,088)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	280
					MCC (LCC - HCC)	407 (464 to 312)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,294
					MCC (LCC - HCC)	5,886 (5,368 to 2,177)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	561
MCC (LCC - HCC)	813 (928 to 623)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	0.8% (0.7% to 0.9%)		

Table II-33 Synthesis information – Terrestrial GDEs- Northern Zone (West Wimmera)

Assessment area	GMU		NORTHERN ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 1,369 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
				MCC (LCC - HCC)	0.1 (0.2 to 0.5)	
		2041-2065	Drawdown from baseline (m)	No CC	0.4	
			MCC (LCC - HCC)	0.4 (0.3 to 0.6)		
		PCV use 4,068 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.4
				MCC (LCC - HCC)	0.4 (0.2 to 1.2)	
		2041-2065	Drawdown from baseline (m)	No CC	0.6	
			MCC (LCC - HCC)	0.8 (0.2 to 1.8)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,262
				MCC (LCC - HCC)	1,373 (2,204 to 528)	
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	599
				MCC (LCC - HCC)	720 (1,895 to 350)	
				Proportion of recharge (%)	No CC	NA
		MCC (LCC - HCC)	0.4% (0.7% to 0.3%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,617
				MCC (LCC - HCC)	13,735 (22,042 to 5,284)	
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	5,986
				MCC (LCC - HCC)	7,203 (18,947 to 3,499)	
				Proportion of recharge (%)	No CC	NA
		MCC (LCC - HCC)	4% (7% to 3%)			
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	25,234
				MCC (LCC - HCC)	27,469 (44,085 to 10,569)	
Proportion of recharge (%)	No CC			NA		
2041-2065	Volume (ML/yr)		No CC	11,973		
	MCC (LCC - HCC)		14,405 (37,894 to 6,998)			
	Proportion of recharge (%)		No CC	NA		
MCC (LCC - HCC)	8% (15% to 6%)					

Table II-34 Synthesis information – Terrestrial GDEs- Nullawarre WSPA

Assessment area	GMU					NULLAWARRE WSPA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 11,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3
					MCC (LCC - HCC)	-0.02 (-0.6 to 1)
		2041-2065	Drawdown from baseline (m)	No CC	0.2	
				MCC (LCC - HCC)	0.2 (-0.3 to 2.4)	
		PCV use 20,194 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	0.2 (-0.9 to 1.6)
		2041-2065	Drawdown from baseline (m)	No CC	1.0	
				MCC (LCC - HCC)	2 (0.3 to 3.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	9,505 (- to 1,805)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	8% (- to 2%)	
			2041-2065	Volume (ML/yr)	No CC	2,441
					MCC (LCC - HCC)	1,491 (5,717 to 768)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.5% (4.4% to 1.1%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	95,051 (- to 18,051)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	77% (- to 19%)	
			2041-2065	Volume (ML/yr)	No CC	24,405
					MCC (LCC - HCC)	14,905 (57,167 to 7,683)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	15% (44% to 11%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-		
			MCC (LCC - HCC)	190,102 (- to 36,103)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	154% (- to 37%)			
	2041-2065	Volume (ML/yr)	No CC	48,811		
			MCC (LCC - HCC)	29,811 (114,334 to 15,365)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	30% (88% to 22%)				

Table II-35 Synthesis information – Terrestrial GDEs- Shepparton Irrigation GMA

Assessment area	GMU		SHEPPARTON IRRIGATION GMA			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 55,314 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.9
					MCC (LCC - HCC)	2.2 (0.9 to 3.2)
			2041-2065	Drawdown from baseline (m)	No CC	2.1
					MCC (LCC - HCC)	2.1 (0.7 to 5.2)
		PCV use 266,555 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.1
					MCC (LCC - HCC)	2.4 (1.6 to 3.4)
			2041-2065	Drawdown from baseline (m)	No CC	2.5
					MCC (LCC - HCC)	3.2 (1.1 to 5.5)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	16,757
					MCC (LCC - HCC)	14,892 (21,646 to 11,136)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	2.8% (3.2% to 2.7%)	
			2041-2065	Volume (ML/yr)	No CC	15,248
					MCC (LCC - HCC)	11,173 (25,824 to 6,951)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	2.6% (4.3% to 2.5%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	167,569
					MCC (LCC - HCC)	148,915 (216,458 to 111,365)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	28% (32% to 27%)	
			2041-2065	Volume (ML/yr)	No CC	152,479
					MCC (LCC - HCC)	111,733 (258,240 to 69,513)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	26% (43% to 25%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	335,137		
			MCC (LCC - HCC)	297,831 (432,915 to 222,729)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	56% (64% to 53%)			
	2041-2065	Volume (ML/yr)	No CC	304,959		
			MCC (LCC - HCC)	223,467 (516,481 to 139,027)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	52% (86% to 50%)				

Table II-36 Synthesis information – Terrestrial GDEs- South West Limestone GMA

Assessment area	GMU		SOUTH WEST LIMESTONE GMA			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 30,801 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.6
					MCC (LCC - HCC)	-0.4 (-0.8 to 0.3)
		2041-2065	Drawdown from baseline (m)	No CC	-0.2	
				MCC (LCC - HCC)	-0.2 (-0.6 to 1.3)	
		PCV use 83,330 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.2 (-0.6 to 1.1)
		2041-2065	Drawdown from baseline (m)	No CC	0.9	
				MCC (LCC - HCC)	1.7 (0.4 to 2.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	113,572
					MCC (LCC - HCC)	29,499 (- to 10,168)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.8% (- to 0.7%)	
			2041-2065	Volume (ML/yr)	No CC	6,511
					MCC (LCC - HCC)	6,202 (14,336 to 3,927)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.5% (0.8% to 0.4%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,135,717
					MCC (LCC - HCC)	294,988 (- to 101,677)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	18% (- to 7%)	
			2041-2065	Volume (ML/yr)	No CC	65,111
					MCC (LCC - HCC)	62,019 (143,365 to 39,270)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	5% (8% to 4%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,271,434		
			MCC (LCC - HCC)	589,977 (- to 203,353)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	36% (- to 15%)			
	2041-2065	Volume (ML/yr)	No CC	130,223		
			MCC (LCC - HCC)	124,038 (286,729 to 78,539)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	9% (17% to 8%)				

Table II-37 Synthesis information – Terrestrial GDEs- Southern Zone (West Wimmera)

Assessment area	GMU		SOUTHERN ZONE (WEST WIMMERA)			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 561 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	0.6 (0 to 0.6)
			2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0.1 to 1.4)
		PCV use 2,687 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.9 (0.1 to 1.3)
			2041-2065	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.8 (0.1 to 2.9)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	691
					MCC (LCC - HCC)	403 (1,595 to 306)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.18% (0.62% to 0.20%)	
			2041-2065	Volume (ML/yr)	No CC	234
					MCC (LCC - HCC)	223 (1,617 to 140)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.15% (0.78% to 0.15%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,905
					MCC (LCC - HCC)	4,025 (15,946 to 3,057)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.8% (6.2% to 2.0%)	
			2041-2065	Volume (ML/yr)	No CC	2,337
					MCC (LCC - HCC)	2,230 (16,174 to 1,403)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.5% (7.8% to 1.5%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	13,811		
			MCC (LCC - HCC)	8,051 (31,891 to 6,114)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	4% (12% to 4%)			
	2041-2065	Volume (ML/yr)	No CC	4,674		
			MCC (LCC - HCC)	4,460 (32,348 to 2,806)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	3% (16% to 3%)				

Table II-38 Synthesis information – Terrestrial GDEs- Strathbogie GMA

Assessment area	GMU					STRATHBOGIE GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 412 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5	
					MCC (LCC - HCC)	2.2 (-0.2 to 3.2)	
			2041-2065	Drawdown from baseline (m)	No CC	1.9	
					MCC (LCC - HCC)	1.9 (0.3 to 5.7)	
			PCV use 1,109 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.7
						MCC (LCC - HCC)	2.4 (1.1 to 3.2)
		2041-2065		Drawdown from baseline (m)	No CC	2.4	
					MCC (LCC - HCC)	3.6 (1.2 to 5.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	85	
					MCC (LCC - HCC)	62 (127 to 48)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.012% (0.021% to 0.011%)	
			2041-2065	Volume (ML/yr)	No CC	47	
					MCC (LCC - HCC)	43 (106 to 28)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.011% (0.021% to 0.010%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	855	
					MCC (LCC - HCC)	624 (1,273 to 478)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.12% (0.21% to 0.11%)	
			2041-2065	Volume (ML/yr)	No CC	474	
					MCC (LCC - HCC)	429 (1,064 to 283)	
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.11% (0.21% to 0.10%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,709			
			MCC (LCC - HCC)	1,247 (2,547 to 956)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.25% (0.41% to 0.22%)			
	2041-2065	Volume (ML/yr)	No CC	948			
			MCC (LCC - HCC)	859 (2,129 to 566)			
Proportion of recharge (%)	No CC	NA					
	MCC (LCC - HCC)	0.22% (0.42% to 0.20%)					

Table II-39 Synthesis information – Terrestrial GDEs- Tarwin GMA

Assessment area	GMU					TARWIN GMA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 11 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	1 (-0.1 to 1.6)
		2041-2065	Drawdown from baseline (m)	No CC	1.2	
				MCC (LCC - HCC)	1.2 (0.5 to 3)	
		PCV use 49 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.6 (0.5 to 2)
		2041-2065	Drawdown from baseline (m)	No CC	2.4	
				MCC (LCC - HCC)	3.2 (2 to 3.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4
					MCC (LCC - HCC)	3 (6 to 3)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.03% (0.05% to 0.04%)	
			2041-2065	Volume (ML/yr)	No CC	3
					MCC (LCC - HCC)	2 (2 to 2)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.03% (0.02% to 0.03%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	44
					MCC (LCC - HCC)	32 (62 to 28)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.35% (0.57% to 0.36%)	
			2041-2065	Volume (ML/yr)	No CC	25
					MCC (LCC - HCC)	18 (24 to 16)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.23% (0.25% to 0.28%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	89		
			MCC (LCC - HCC)	65 (124 to 55)		
		Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)		0.7% (1.1% to 0.7%)			
	2041-2065	Volume (ML/yr)	No CC	50		
			MCC (LCC - HCC)	36 (48 to 32)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.46% (0.49% to 0.56%)				

Table II-40 Synthesis information – Terrestrial GDEs- Upper Goulburn GMA

Assessment area	GMU		UPPER GOULBURN GMA			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 715 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.7 (-0.8 to 2.6)
		2041-2065	Drawdown from baseline (m)	No CC	1.3	
				MCC (LCC - HCC)	1.3 (-0.1 to 4.3)	
		PCV use 4,938 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.9
					MCC (LCC - HCC)	2.5 (1.1 to 3.3)
		2041-2065	Drawdown from baseline (m)	No CC	2.6	
				MCC (LCC - HCC)	3.8 (1.3 to 5.6)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	348
					MCC (LCC - HCC)	269 (532 to 212)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.03% (0.04% to 0.03%)	
			2041-2065	Volume (ML/yr)	No CC	177
					MCC (LCC - HCC)	173 (385 to 124)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.02% (0.04% to 0.03%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,476
					MCC (LCC - HCC)	2,687 (5,316 to 2,117)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.25% (0.41% to 0.28%)	
			2041-2065	Volume (ML/yr)	No CC	1,767
					MCC (LCC - HCC)	1,732 (3,851 to 1,241)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.21% (0.35% to 0.30%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,951		
			MCC (LCC - HCC)	5,373 (10,633 to 4,235)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.50% (0.83% to 0.56%)			
	2041-2065	Volume (ML/yr)	No CC	3,535		
			MCC (LCC - HCC)	3,465 (7,702 to 2,482)		
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	0.42% (0.70% to 0.61%)				

Table II-41 Synthesis information – Terrestrial GDEs- Upper Murray GMA

Assessment area	GMU				UPPER MURRAY GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 510 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.9	
					MCC (LCC - HCC)	1.6 (-1.6 to 2.8)	
			2041-2065	Drawdown from baseline (m)	No CC	1.3	
				MCC (LCC - HCC)	1.3 (-0.6 to 4.8)		
		PCV use 3,185 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.4	
					MCC (LCC - HCC)	2.2 (0.2 to 3.3)	
			2041-2065	Drawdown from baseline (m)	No CC	2.2	
				MCC (LCC - HCC)	3.4 (0.3 to 5.6)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	272	
					MCC (LCC - HCC)	193 (900 to 135)	
				2041-2065	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.005% (0.023% to 0.005%)	
				2041-2065	Volume (ML/yr)	No CC	115
					MCC (LCC - HCC)	124 (499 to 81)	
			2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.004% (0.013% to 0.005%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,721	
					MCC (LCC - HCC)	1,928 (9,002 to 1,353)	
				2041-2065	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.054% (0.233% to 0.054%)	
				2041-2065	Volume (ML/yr)	No CC	1,147
					MCC (LCC - HCC)	1,242 (4,988 to 806)	
			2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	0.042% (0.134% to 0.045%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,442			
			MCC (LCC - HCC)	3,857 (18,005 to 2,705)			
		2041-2065	Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.11% (0.47% to 0.11%)			
		2041-2065	Volume (ML/yr)	No CC	2,293		
			MCC (LCC - HCC)	2,484 (9,976 to 1,612)			
	2041-2065	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	0.08% (0.27% to 0.09%)				

Table II-42 Synthesis information – Terrestrial GDEs- Upper Ovens WSPA

Assessment area	GMU				UPPER OVENS WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 978 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.3
					MCC (LCC - HCC)	1.9 (-0.9 to 2.8)
			2041-2065	Drawdown from baseline (m)	No CC	1.5
				MCC (LCC - HCC)	1.5 (0 to 4.6)	
		PCV use 3,498 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
					MCC (LCC - HCC)	2.1 (0.7 to 2.9)
			2041-2065	Drawdown from baseline (m)	No CC	2.0
				MCC (LCC - HCC)	3 (0.7 to 4.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	296
					MCC (LCC - HCC)	229 (584 to 171)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	0.024% (0.050% to 0.022%)	
			2041-2065	Volume (ML/yr)	No CC	196
					MCC (LCC - HCC)	157 (456 to 103)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.019% (0.043% to 0.018%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,962
					MCC (LCC - HCC)	2,290 (5,844 to 1,707)
				Proportion of recharge (%)	No CC	NA
				MCC (LCC - HCC)	% (1% to %)	
			2041-2065	Volume (ML/yr)	No CC	1,956
					MCC (LCC - HCC)	1,572 (4,561 to 1,028)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.19% (0.43% to 0.18%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,923		
			MCC (LCC - HCC)	4,581 (11,689 to 3,414)		
		Proportion of recharge (%)	No CC	NA		
		MCC (LCC - HCC)	0.48% (1.00% to 0.44%)			
	2041-2065	Volume (ML/yr)	No CC	3,912		
			MCC (LCC - HCC)	3,145 (9,122 to 2,056)		
Proportion of recharge (%)		No CC	NA			
	MCC (LCC - HCC)	0.38% (0.86% to 0.36%)				

Table II-43 Synthesis information – Terrestrial GDEs- Wa De Lock GMA

Assessment area	GMU				WA DE LOCK GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 6,818 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.8	
					MCC (LCC - HCC)	0.9 (0.1 to 1.3)	
			2041-2065	Drawdown from baseline (m)	No CC	0.9	
				MCC (LCC - HCC)	0.9 (0.5 to 2)		
		PCV use 22,401 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1	
					MCC (LCC - HCC)	1.2 (0.8 to 1.4)	
			2041-2065	Drawdown from baseline (m)	No CC	1.4	
				MCC (LCC - HCC)	1.7 (1 to 2.2)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,569	
					MCC (LCC - HCC)	2,390 (3,300 to 2,004)	
				2041-2065	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	2.2% (2.5% to 2.2%)	
				2041-2065	Volume (ML/yr)	No CC	2,618
					MCC (LCC - HCC)	1,632 (2,307 to 1,302)	
			2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.9% (2.1% to 2.0%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	25,694	
					MCC (LCC - HCC)	23,902 (32,999 to 20,039)	
				2041-2065	Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	22% (25% to 22%)	
				2041-2065	Volume (ML/yr)	No CC	26,177
					MCC (LCC - HCC)	16,319 (23,066 to 13,016)	
			2041-2065	Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	19% (21% to 20%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	51,389			
			MCC (LCC - HCC)	47,803 (65,997 to 40,079)			
		2041-2065	Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	43% (50% to 43%)			
		2041-2065	Volume (ML/yr)	No CC	52,354		
			MCC (LCC - HCC)	32,639 (46,131 to 26,031)			
	2041-2065	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	37% (41% to 40%)				

Table II-44 Synthesis information – Terrestrial GDEs- Wandin Yallock GMA

Assessment area	GMU					WANDIN YALLOCK GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 553 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3	
					MCC (LCC - HCC)	0.1 (-1.5 to 1)	
		2041-2065	Drawdown from baseline (m)	No CC	-0.1		
				MCC (LCC - HCC)	-0.1 (-1 to 2.5)		
		PCV use 2,606 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.8	
					MCC (LCC - HCC)	2.6 (0.7 to 4.4)	
		2041-2065	Drawdown from baseline (m)	No CC	2.3		
				MCC (LCC - HCC)	4.4 (0.3 to 8.3)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	199	
					MCC (LCC - HCC)	140 (418 to 89)	
				Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)		0.7% (1.7% to 0.5%)		
			2041-2065	Volume (ML/yr)	No CC	81	
					MCC (LCC - HCC)	81 (387 to 47)	
		Proportion of recharge (%)		No CC	NA		
			MCC (LCC - HCC)	0.5% (1.8% to 0.4%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,989	
					MCC (LCC - HCC)	1,398 (4,182 to 895)	
				Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)		7% (17% to 5%)		
			2041-2065	Volume (ML/yr)	No CC	806	
					MCC (LCC - HCC)	811 (3,869 to 468)	
		Proportion of recharge (%)		No CC	NA		
			MCC (LCC - HCC)	5% (18% to 4%)			
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,978			
			MCC (LCC - HCC)	2,796 (8,363 to 1,790)			
		Proportion of recharge (%)	No CC	NA			
	MCC (LCC - HCC)		14% (34% to 11%)				
	2041-2065	Volume (ML/yr)	No CC	1,612			
			MCC (LCC - HCC)	1,621 (7,738 to 935)			
Proportion of recharge (%)		No CC	NA				
	MCC (LCC - HCC)	10% (36% to 8%)					

Table II-45 Synthesis information – Terrestrial GDEs- Warrion WSPA

Assessment area	GMU				WARRION WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 2,847 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.7 (0.2 to 1.7)
		2041-2065	Drawdown from baseline (m)	No CC	1.1	
				MCC (LCC - HCC)	1.1 (0.7 to 3.1)	
		PCV use 10,742 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.9
					MCC (LCC - HCC)	3.4 (1.8 to 5.7)
		2041-2065	Drawdown from baseline (m)	No CC	6.2	
				MCC (LCC - HCC)	7.6 (4.9 to 10.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	436
					MCC (LCC - HCC)	388 (604 to 258)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	203
					MCC (LCC - HCC)	178 (245 to 137)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,357
					MCC (LCC - HCC)	3,883 (6,036 to 2,578)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	2,031
					MCC (LCC - HCC)	1,783 (2,452 to 1,368)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	8,713
					MCC (LCC - HCC)	7,765 (12,072 to 5,156)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	4,061
MCC (LCC - HCC)	3,566 (4,904 to 2,736)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	13% (13% to 14%)		

Table II-46 Synthesis information – Terrestrial GDEs- West Goulburn GMA

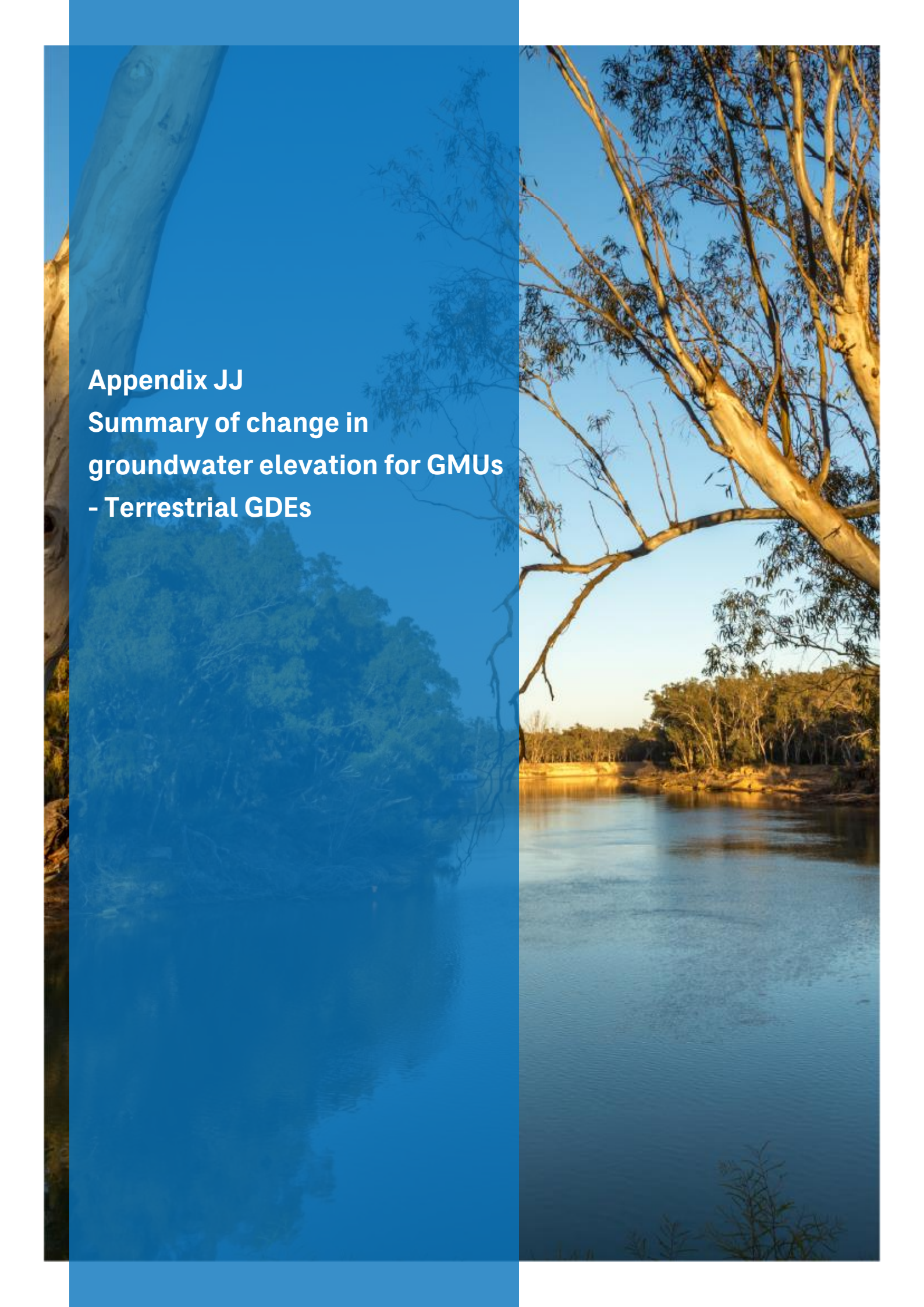
Assessment area	GMU				WEST GOULBURN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Terrestrial GDEs	Avg Use 3,509 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.2	
					MCC (LCC - HCC)	2.9 (0.6 to 3.8)	
			2041-2065	Drawdown from baseline (m)	No CC	2.5	
					MCC (LCC - HCC)	2.5 (0.9 to 6.1)	
		PCV use 95,132 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.6	
					MCC (LCC - HCC)	3.3 (2 to 4.1)	
			2041-2065	Drawdown from baseline (m)	No CC	3.2	
					MCC (LCC - HCC)	4.4 (1.6 to 6.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,872	
					MCC (LCC - HCC)	3,992 (6,182 to 3,370)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.7% (0.9% to 0.8%)	
				2041-2065	Volume (ML/yr)	No CC	4,204
						MCC (LCC - HCC)	2,934 (6,224 to 2,119)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	0.7% (1.1% to 0.7%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	48,723	
					MCC (LCC - HCC)	39,918 (61,825 to 33,705)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	7% (9% to 8%)	
				2041-2065	Volume (ML/yr)	No CC	42,037
						MCC (LCC - HCC)	29,335 (62,241 to 21,193)
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	7% (11% to 7%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	97,446			
			MCC (LCC - HCC)	79,836 (123,650 to 67,409)			
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	14% (17% to 15%)			
		2041-2065	Volume (ML/yr)	No CC	84,074		
				MCC (LCC - HCC)	58,671 (124,482 to 42,386)		
	Proportion of recharge (%)	No CC	NA				
		MCC (LCC - HCC)	14% (21% to 15%)				

Table II-47 Synthesis information – Terrestrial GDEs- Wy Yung GMA

Assessment area	GMU				WY YUNG GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Terrestrial GDEs	Avg Use 680 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.2 (-0.7 to 0.7)
			2041-2065	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.2 (-0.4 to 1.3)
		PCV use 5,748 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0.2 to 0.8)
			2041-2065	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.1 (0.5 to 1.5)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,193
					MCC (LCC - HCC)	1,073 (1,886 to 799)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	11% (14% to 11%)
			2041-2065	Volume (ML/yr)	No CC	1,044
					MCC (LCC - HCC)	567 (890 to 441)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	7% (8% to 10%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,928
					MCC (LCC - HCC)	10,730 (18,858 to 7,995)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	106% (143% to 109%)
			2041-2065	Volume (ML/yr)	No CC	10,439
					MCC (LCC - HCC)	5,668 (8,898 to 4,406)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	72% (78% to 105%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	23,856		
			MCC (LCC - HCC)	21,460 (37,716 to 15,989)		
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	211% (286% to 218%)		
	2041-2065	Volume (ML/yr)	No CC	20,879		
			MCC (LCC - HCC)	11,337 (17,796 to 8,812)		
	Proportion of recharge (%)	No CC	NA			
		MCC (LCC - HCC)	143% (156% to 210%)			

Table II-48 Synthesis information – Terrestrial GDEs- Yangery WSPA

Assessment area	GMU				YANGERY WSPA			
		Representative Suite/bore						
	Aquifer							
	Water system depth boundary (m below natural surface)							
Catchment	Permissible Consumptive Volume (ML/yr)							
	Licensed Entitlement (ML/yr)							
	Licensed avg use (ML/yr)							
Environmental metric	Terrestrial GDEs	Avg Use	3,425 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.2	
						MCC (LCC - HCC)	-0.04 (-0.4 to 0.5)	
				2041-2065	Drawdown from baseline (m)	No CC	0.0	
						MCC (LCC - HCC)	0.03 (-0.2 to 1.3)	
		PCV use	12,123 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1	
						MCC (LCC - HCC)	0.4 (-0.3 to 1.4)	
				2041-2065	Drawdown from baseline (m)	No CC	1.0	
						MCC (LCC - HCC)	1.7 (0.6 to 2.9)	
		Use at 0.1 metre drawdown		2021-2040	Volume (ML/yr)	No CC	6,258	
							MCC (LCC - HCC)	3,064 (- to 1,216)
						Proportion of recharge (%)	No CC	NA
							MCC (LCC - HCC)	7% (- to 3%)
				2041-2065	Volume (ML/yr)	No CC	1,567	
							MCC (LCC - HCC)	927 (1,845 to 580)
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	2.4% (3.8% to 2.0%)		
		Use at 1 metre drawdown		2021-2040	Volume (ML/yr)	No CC	62,575	
							MCC (LCC - HCC)	30,640 (- to 12,160)
						Proportion of recharge (%)	No CC	NA
							MCC (LCC - HCC)	67% (- to 33%)
				2041-2065	Volume (ML/yr)	No CC	15,667	
							MCC (LCC - HCC)	9,268 (18,448 to 5,804)
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	24% (38% to 20%)		
Use at 2 metre drawdown		2021-2040	Volume (ML/yr)	No CC	125,151			
					MCC (LCC - HCC)	61,280 (- to 24,320)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	134% (- to 65%)		
		2041-2065	Volume (ML/yr)	No CC	31,334			
					MCC (LCC - HCC)	18,536 (36,896 to 11,608)		
		Proportion of recharge (%)	No CC	NA				
			MCC (LCC - HCC)	48% (76% to 41%)				

The image features a landscape photograph of a river with trees, overlaid with a blue semi-transparent rectangle containing text. The text is white and reads:

Appendix JJ
Summary of change in
groundwater elevation for GMUs
- Terrestrial GDEs

Table JJ-1 Estimated average change in groundwater elevation from Baseline (1950-1974) for Terrestrial GDEs by GMU and scenario – Historic and 2021-2040 – noCC –current climate (no climate change), LCC – low climate change, MCC – medium climate change, HCC – high climate change.

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Barnawartha GMA	No use	-0.48	1.13	-0.44	-2.50	-1.26	1.26	-1.62	-4.71
Barnawartha GMA	Current use	-0.94	1.02	-1.23	-2.84	-1.54	0.85	-1.54	-5.27
Barnawartha GMA	PCV use	-1.12	0.18	-1.41	-2.82	-2.11	0.08	-2.83	-5.30
Barnawartha GMA	200% PCV use	-1.56	-0.25	-1.89	-3.25	-2.01	-0.74	-3.75	-6.14
Big Desert Zone (West Wimmera)	No use	-0.15	0.14	0.06	-0.54	-0.18	0.23	0.00	-0.61
Big Desert Zone (West Wimmera)	Current use	-0.07	0.12	0.17	-0.36	-0.05	0.21	-0.05	-0.26
Big Desert Zone (West Wimmera)	PCV use	-0.20	0.08	0.04	-0.58	-0.11	0.26	0.09	-0.57
Big Desert Zone (West Wimmera)	200% PCV use	-0.26	0.03	0.00	-0.64	-0.99	0.24	0.10	-0.59
Broken GMA	No use	-1.76	-1.44	-2.28	-3.93	-2.62	-0.93	-4.02	-7.69
Broken GMA	Current use	-1.49	-0.43	-2.02	-3.10	-1.90	-0.48	-1.90	-5.59
Broken GMA	PCV use	-1.59	-1.24	-2.09	-3.07	-2.11	-0.93	-3.16	-5.38
Broken GMA	200% PCV use	-1.89	-1.58	-2.40	-3.36	-2.66	-1.45	-3.64	-5.84
Bungaree GMA	No use	-0.86	-0.37	-1.73	-2.96	-2.27	-1.34	-3.56	-5.80
Bungaree GMA	Current use	-0.13	0.28	-0.54	-1.15	-0.17	-0.03	-0.17	-2.04
Bungaree GMA	PCV use	-3.60	-2.34	-4.87	-7.28	-3.03	-0.23	-6.26	-12.06
Bungaree GMA	200% PCV use	-4.18	-2.93	-5.44	-7.86	-6.20	-0.94	-6.95	-12.76
Cardigan GMA	No use	-0.67	-0.23	-1.76	-2.67	-1.86	-0.99	-3.49	-5.28
Cardigan GMA	Current use	-0.46	-0.23	-1.07	-1.53	-0.64	-0.55	-0.64	-2.45
Cardigan GMA	PCV use	-3.89	-2.64	-5.32	-7.56	-3.45	-0.79	-6.77	-12.14
Cardigan GMA	200% PCV use	-4.49	-3.26	-5.91	-8.15	-5.21	-1.44	-7.36	-12.76
Central Victorian Mineral Springs GMA	No use	-0.57	0.07	-1.64	-2.35	-1.30	-0.13	-3.27	-5.09
Central Victorian Mineral Springs GMA	Current use	-1.49	0.50	-2.52	-3.57	-1.70	0.12	-1.70	-7.20

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Central Victorian Mineral Springs GMA	PCV use	-2.99	-1.97	-4.42	-5.81	-3.42	-0.89	-6.62	-10.96
Central Victorian Mineral Springs GMA	200% PCV use	-3.82	-2.86	-5.37	-6.66	-5.85	-2.34	-8.18	-12.36
Colongulac GMA	No use	-0.46	-0.11	-1.50	-1.40	-1.17	-0.60	-2.68	-2.99
Colongulac GMA	Current use	0.92	1.32	0.11	-1.08	0.01	0.62	0.01	-2.91
Colongulac GMA	PCV use	0.77	1.84	-0.32	-2.42	-0.54	0.58	-2.52	-5.18
Colongulac GMA	200% PCV use	0.88	1.96	-0.21	-2.29	-4.31	0.95	-2.16	-4.80
Denison GMA	No use	-0.44	0.05	-0.82	-1.26	-0.84	0.01	-1.56	-2.59
Denison GMA	Current use	-1.10	-0.31	-1.28	-1.62	-1.30	-0.82	-1.30	-2.32
Denison GMA	PCV use	-1.51	-1.15	-1.74	-2.18	-1.95	-1.40	-2.39	-3.19
Denison GMA	200% PCV use	-2.21	-1.87	-2.45	-2.88	-3.71	-2.45	-3.44	-4.24
Deutgam WSPA	No use	-0.07	0.72	-0.66	-0.73	-0.37	0.57	-1.24	-1.37
Deutgam WSPA	Current use	-0.09	0.34	-0.46	-0.98	-0.52	-0.04	-0.52	-1.98
Deutgam WSPA	PCV use	-1.53	-0.95	-2.12	-3.14	-2.62	-1.61	-3.83	-5.81
Deutgam WSPA	200% PCV use	-2.43	-1.86	-3.01	-4.03	-6.17	-3.45	-5.64	-7.63
Eildon GMA	No use	-1.08	-0.68	-1.38	-2.18	-1.95	-1.36	-2.45	-3.90
Eildon GMA	Current use	-1.11	0.72	-1.57	-2.56	-1.32	-0.17	-1.32	-4.25
Eildon GMA	PCV use	-1.63	-1.03	-2.12	-3.08	-2.26	-1.14	-3.29	-5.21
Eildon GMA	200% PCV use	-2.22	-1.63	-2.74	-3.66	-4.95	-2.23	-4.41	-6.27
Frankston GMA	No use	-0.19	0.56	-0.36	-0.82	-0.45	0.49	-0.93	-1.81
Frankston GMA	Current use	-0.88	-0.12	-1.47	-2.32	-1.37	-0.57	-1.37	-3.95
Frankston GMA	PCV use	-1.65	-0.92	-2.43	-3.59	-2.15	-1.00	-3.66	-5.97
Frankston GMA	200% PCV use	-2.13	-1.40	-2.90	-4.06	-1.93	-1.75	-4.38	-6.69
Gellibrand GMA	No use	-1.15	-0.42	0.13	-2.00	-1.81	-0.76	-1.22	-4.19
Gellibrand GMA	Current use	0.92	1.53	1.62	-0.14	0.15	1.14	0.15	-2.38
Gellibrand GMA	PCV use	-2.41	-1.37	-1.98	-4.26	-8.09	-6.87	-8.43	-11.17

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Gellibrand GMA	200% PCV use	-6.04	-4.97	-5.71	-7.81	-19.68	-14.71	-16.56	-18.93
Gerangamete GMA	No use	-1.19	-0.44	-0.34	-2.20	-2.02	-0.90	-1.79	-4.57
Gerangamete GMA	Current use	0.36	0.94	0.78	-0.66	-0.35	0.43	-0.35	-2.57
Gerangamete GMA	PCV use	-3.59	-2.49	-3.49	-5.76	-9.44	-8.15	-10.15	-12.97
Gerangamete GMA	200% PCV use	-7.52	-6.40	-7.49	-9.62	-20.25	-16.55	-18.78	-21.31
Glenelg WSPA	No use	0.53	-0.67	-1.46	-1.30	0.24	-0.32	-2.81	-3.91
Glenelg WSPA	Current use	0.20	0.27	0.00	-0.26	0.05	0.34	0.05	-1.04
Glenelg WSPA	PCV use	-0.15	0.10	-0.54	-1.01	-0.75	-0.28	-1.61	-2.58
Glenelg WSPA	200% PCV use	-0.58	-0.33	-0.99	-1.43	-1.49	-1.06	-2.41	-3.33
Glenormiston GMA	No use	-0.10	0.08	-1.94	-0.86	-0.58	-0.19	-2.81	-2.18
Glenormiston GMA	Current use	-0.61	-0.12	-2.16	-2.70	-1.44	-0.86	-1.44	-4.48
Glenormiston GMA	PCV use	-0.49	0.44	-2.21	-3.45	-1.15	-0.19	-3.69	-5.49
Glenormiston GMA	200% PCV use	-0.13	0.79	-1.83	-3.10	0.08	0.78	-2.65	-4.52
Gymbowen Zone (West Wimmera)	No use	-0.95	-0.60	-1.16	-1.51	-1.40	-0.64	-2.00	-2.83
Gymbowen Zone (West Wimmera)	Current use	-0.50	-0.25	-0.68	-0.82	-0.74	-0.36	-0.74	-1.49
Gymbowen Zone (West Wimmera)	PCV use	-0.59	-0.31	-0.93	-1.36	-0.99	-0.34	-1.66	-2.65
Gymbowen Zone (West Wimmera)	200% PCV use	-0.77	-0.49	-1.12	-1.54	-2.12	-0.60	-1.92	-2.90
Hawkesdale GMA	No use	0.48	0.36	-1.18	-0.70	0.06	0.08	-1.94	-1.91
Hawkesdale GMA	Current use	-0.05	0.32	-0.50	-0.73	-0.28	-0.01	-0.28	-1.33
Hawkesdale GMA	PCV use	-0.51	-0.05	-1.08	-1.70	-1.12	-0.67	-1.99	-2.79
Hawkesdale GMA	200% PCV use	-0.82	-0.36	-1.39	-2.01	-2.29	-1.18	-2.51	-3.31
Heywood GMA	No use	1.25	0.17	-0.17	-0.41	1.09	0.26	-0.78	-1.75
Heywood GMA	Current use	0.13	0.20	0.09	-0.09	0.14	0.21	0.14	-0.36
Heywood GMA	PCV use	-0.45	-0.31	-0.56	-0.91	-0.85	-0.71	-1.12	-1.55
Heywood GMA	200% PCV use	-0.88	-0.74	-1.01	-1.33	-0.61	-1.54	-1.97	-2.36

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Jan Juc GMA	No use	-1.02	-0.09	-0.42	-1.87	-1.63	-0.52	-1.62	-3.59
Jan Juc GMA	Current use	1.13	1.75	1.33	0.07	0.12	0.96	0.12	-1.92
Jan Juc GMA	PCV use	-4.73	-3.85	-4.75	-6.31	-13.30	-12.40	-13.79	-15.48
Jan Juc GMA	200% PCV use	-11.06	-10.18	-11.16	-12.57	-30.21	-26.03	-27.65	-29.03
Kiewa GMA	No use	-0.32	1.75	-0.76	-2.08	-1.10	1.54	-1.75	-3.95
Kiewa GMA	Current use	-1.77	0.65	-2.38	-3.64	-2.19	-0.05	-2.19	-5.80
Kiewa GMA	PCV use	-2.02	-0.72	-2.61	-3.75	-2.69	-0.68	-3.73	-5.95
Kiewa GMA	200% PCV use	-2.50	-1.20	-3.11	-4.23	-2.07	-1.47	-4.54	-6.72
Koo Wee Rup WSPA	No use	-0.33	0.37	-0.74	-1.28	-0.79	0.18	-1.60	-2.71
Koo Wee Rup WSPA	Current use	-1.02	-0.26	-1.73	-2.64	-1.70	-0.88	-1.70	-4.48
Koo Wee Rup WSPA	PCV use	-2.05	-1.15	-3.04	-4.42	-2.98	-1.71	-4.74	-7.29
Koo Wee Rup WSPA	200% PCV use	-2.92	-2.04	-3.91	-5.28	-4.75	-2.99	-6.00	-8.54
Lancefield GMA	No use	-0.44	0.38	-1.75	-1.95	-1.53	-0.09	-3.31	-4.38
Lancefield GMA	Current use	-1.65	0.16	-2.68	-3.12	-1.63	-0.27	-1.63	-5.08
Lancefield GMA	PCV use	-2.73	-1.67	-4.15	-5.26	-2.04	0.31	-4.82	-8.33
Lancefield GMA	200% PCV use	-2.70	-1.64	-4.15	-5.24	-3.98	0.69	-4.48	-7.96
Leongatha GMA	No use	-0.32	0.02	-0.61	-1.09	-0.61	-0.08	-1.25	-2.27
Leongatha GMA	Current use	-0.32	0.13	-0.82	-1.42	-0.98	-0.44	-0.98	-2.75
Leongatha GMA	PCV use	-1.20	-0.59	-1.94	-2.69	-2.87	-2.29	-3.86	-4.84
Leongatha GMA	200% PCV use	-2.62	-2.01	-3.39	-4.09	-4.02	-4.53	-6.14	-7.04
Little Desert Zone (West Wimmera)	No use	-0.61	-0.44	-0.33	-1.17	-0.92	-0.39	-1.05	-2.28
Little Desert Zone (West Wimmera)	Current use	-0.28	-0.26	-0.28	-0.58	-0.48	-0.36	-0.48	-0.89
Little Desert Zone (West Wimmera)	PCV use	-0.35	-0.14	-0.55	-1.19	-0.71	-0.27	-1.21	-2.21
Little Desert Zone (West Wimmera)	200% PCV use	-0.53	-0.31	-0.72	-1.36	-1.45	-0.48	-1.43	-2.43
Loddon Highlands WSPA	No use	-0.48	-0.09	-1.13	-2.34	-1.04	-0.19	-2.67	-5.06

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Loddon Highlands WSPA	Current use	-1.42	-0.02	-2.23	-3.63	-1.84	-0.22	-1.84	-7.68
Loddon Highlands WSPA	PCV use	-3.15	-2.28	-4.34	-6.09	-3.66	-1.26	-6.77	-11.59
Loddon Highlands WSPA	200% PCV use	-4.04	-3.25	-5.36	-7.01	-5.57	-2.76	-8.35	-13.02
Lower Campaspe Valley WSPA	No use	-1.92	-1.14	-2.89	-4.36	-2.71	-0.44	-5.12	-9.27
Lower Campaspe Valley WSPA	Current use	-3.86	-1.50	-4.60	-5.74	-4.08	-2.28	-4.08	-8.92
Lower Campaspe Valley WSPA	PCV use	-4.34	-3.63	-5.11	-6.21	-4.90	-3.08	-6.65	-9.76
Lower Campaspe Valley WSPA	200% PCV use	-6.02	-5.34	-6.83	-7.84	-6.95	-5.47	-9.06	-12.06
Lower Ovens GMA	No use	-0.74	-0.07	-0.81	-2.37	-1.32	0.30	-1.95	-4.81
Lower Ovens GMA	Current use	-1.29	0.15	-1.64	-2.82	-1.64	0.00	-1.64	-5.08
Lower Ovens GMA	PCV use	-1.42	-0.77	-1.75	-2.81	-2.01	-0.54	-2.87	-5.05
Lower Ovens GMA	200% PCV use	-1.77	-1.13	-2.11	-3.16	-1.83	-1.17	-3.52	-5.66
Merrimu GMA	No use	-0.08	0.60	-0.76	-1.00	-0.41	0.30	-1.45	-1.60
Merrimu GMA	Current use	-0.28	0.17	-0.57	-1.07	-0.56	-0.08	-0.56	-2.06
Merrimu GMA	PCV use	-2.49	-1.77	-3.25	-4.52	-3.36	-1.87	-5.15	-8.05
Merrimu GMA	200% PCV use	-3.40	-2.70	-4.18	-5.43	-4.58	-3.86	-7.15	-10.00
Mid Goulburn GMA	No use	-1.96	-1.25	-2.74	-4.16	-2.81	-0.61	-4.66	-8.37
Mid Goulburn GMA	Current use	-2.71	-0.97	-3.36	-4.43	-3.04	-1.26	-3.04	-7.16
Mid Goulburn GMA	PCV use	-3.04	-2.47	-3.65	-4.52	-3.71	-2.31	-4.87	-7.08
Mid Goulburn GMA	200% PCV use	-3.91	-3.39	-4.56	-5.37	-3.44	-3.70	-6.25	-8.37
Mid Loddon GMA	No use	-0.87	-0.44	-1.67	-2.84	-1.26	-0.07	-3.42	-6.48
Mid Loddon GMA	Current use	-3.07	-0.82	-4.05	-5.67	-3.44	-1.17	-3.44	-10.95
Mid Loddon GMA	PCV use	-3.52	-2.81	-4.57	-6.15	-4.11	-1.82	-7.01	-11.72
Mid Loddon GMA	200% PCV use	-4.39	-3.78	-5.55	-7.06	-5.55	-3.24	-8.45	-13.06
Moe GMA	No use	-0.44	0.06	-0.70	-1.20	-0.78	-0.11	-1.33	-2.38
Moe GMA	Current use	-0.44	0.24	-0.69	-1.22	-0.82	-0.30	-0.82	-2.27

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Moe GMA	PCV use	-2.16	-1.44	-2.82	-3.87	-3.98	-3.07	-5.12	-6.87
Moe GMA	200% PCV use	-3.97	-3.26	-4.64	-5.66	-7.27	-6.19	-8.25	-9.95
Moorabbin GMA	No use	-0.19	0.69	-0.64	-0.97	-0.64	0.45	-1.39	-1.98
Moorabbin GMA	Current use	-0.77	0.04	-1.30	-2.03	-1.12	-0.35	-1.12	-3.46
Moorabbin GMA	PCV use	-1.71	-0.92	-2.51	-3.77	-1.78	-0.39	-3.47	-6.19
Moorabbin GMA	200% PCV use	-1.91	-1.14	-2.71	-3.97	-2.76	-0.66	-3.71	-6.44
Nepean GMA	No use	-0.43	0.33	-0.20	-1.08	-0.71	0.36	-0.92	-2.45
Nepean GMA	Current use	-0.66	0.16	-1.29	-2.38	-1.60	-0.65	-1.60	-4.46
Nepean GMA	PCV use	-2.47	-1.78	-3.08	-4.01	-5.83	-5.12	-6.75	-8.01
Nepean GMA	200% PCV use	-5.07	-4.39	-5.70	-6.59	-10.79	-10.28	-11.94	-13.11
Neurapur Zone (West Wimmera)	No use	-0.70	-0.57	-0.72	-1.35	-0.98	-0.29	-1.80	-3.30
Neurapur Zone (West Wimmera)	Current use	-0.32	-0.19	-0.32	-0.40	-0.38	-0.17	-0.38	-0.77
Neurapur Zone (West Wimmera)	PCV use	-0.45	-0.08	-0.81	-1.41	-0.71	0.02	-1.61	-2.93
Neurapur Zone (West Wimmera)	200% PCV use	-0.70	-0.33	-1.06	-1.65	-1.76	-0.27	-1.90	-3.20
Newlingrook GMA	No use	-0.77	-0.39	1.30	-1.22	-1.02	-0.37	0.44	-2.86
Newlingrook GMA	Current use	1.52	1.96	2.61	0.68	0.89	1.95	0.89	-1.58
Newlingrook GMA	PCV use	-0.32	0.41	0.61	-1.36	-4.37	-3.33	-4.09	-6.73
Newlingrook GMA	200% PCV use	-2.77	-2.01	-1.96	-3.74	-14.96	-8.71	-9.78	-12.04
Northern Zone (West Wimmera)	No use	-0.69	-0.40	-0.10	-1.15	-0.94	-0.43	-0.53	-1.74
Northern Zone (West Wimmera)	Current use	-0.27	-0.24	-0.09	-0.53	-0.38	-0.29	-0.38	-0.57
Northern Zone (West Wimmera)	PCV use	-0.42	-0.20	-0.41	-1.16	-0.62	-0.23	-0.82	-1.81
Northern Zone (West Wimmera)	200% PCV use	-0.57	-0.33	-0.54	-1.30	-1.36	-0.38	-0.97	-1.97
Nullawarre WSPA	No use	0.12	0.01	-0.05	-0.34	0.00	-0.07	-0.44	-1.08
Nullawarre WSPA	Current use	0.34	0.60	0.02	-1.02	-0.22	0.28	-0.22	-2.42
Nullawarre WSPA	PCV use	0.24	0.86	-0.21	-1.64	-0.98	-0.34	-1.99	-3.88

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Nullawarre WSPA	200% PCV use	0.02	0.64	-0.46	-1.86	-1.64	-0.84	-2.53	-4.36
Shepparton Irrigation GMA	No use	-2.69	-1.91	-3.20	-5.97	-3.97	-0.80	-5.81	-12.03
Shepparton Irrigation GMA	Current use	-1.88	-0.91	-2.18	-3.19	-2.12	-0.69	-2.12	-5.23
Shepparton Irrigation GMA	PCV use	-2.11	-1.57	-2.41	-3.39	-2.47	-1.08	-3.23	-5.49
Shepparton Irrigation GMA	200% PCV use	-2.76	-2.22	-3.08	-4.01	-2.95	-1.99	-4.18	-6.38
South West Limestone GMA	No use	0.45	-0.10	-0.67	-0.77	0.19	-0.10	-1.49	-2.28
South West Limestone GMA	Current use	0.55	0.77	0.36	-0.26	0.22	0.61	0.22	-1.30
South West Limestone GMA	PCV use	0.13	0.55	-0.19	-1.06	-0.92	-0.43	-1.65	-2.84
South West Limestone GMA	200% PCV use	-0.35	0.07	-0.69	-1.53	-2.87	-1.39	-2.67	-3.79
Southern Zone (West Wimmera)	No use	-0.83	-0.65	-1.54	-1.53	-1.26	-0.53	-2.69	-3.58
Southern Zone (West Wimmera)	Current use	-0.35	-0.02	-0.56	-0.56	-0.52	-0.08	-0.52	-1.36
Southern Zone (West Wimmera)	PCV use	-0.47	-0.11	-0.91	-1.28	-0.84	-0.05	-1.76	-2.91
Southern Zone (West Wimmera)	200% PCV use	-0.71	-0.37	-1.17	-1.52	-2.43	-0.38	-2.10	-3.23
Strathbogie GMA	No use	-1.48	-0.91	-2.38	-3.17	-2.29	-0.87	-3.92	-5.99
Strathbogie GMA	Current use	-1.46	0.23	-2.19	-3.21	-1.85	-0.25	-1.85	-5.65
Strathbogie GMA	PCV use	-1.70	-1.15	-2.40	-3.24	-2.37	-1.15	-3.59	-5.46
Strathbogie GMA	200% PCV use	-2.22	-1.71	-2.96	-3.75	-4.48	-2.05	-4.50	-6.29
Tarwin GMA	No use	-0.12	0.11	-0.27	-0.63	-0.21	0.23	-0.72	-1.58
Tarwin GMA	Current use	-0.47	0.06	-1.04	-1.61	-1.15	-0.53	-1.15	-3.04
Tarwin GMA	PCV use	-0.94	-0.46	-1.58	-2.00	-2.43	-2.03	-3.18	-3.62
Tarwin GMA	200% PCV use	-2.27	-1.78	-2.93	-3.30	-3.59	-4.06	-5.25	-5.62
Upper Goulburn GMA	No use	-0.58	0.12	-1.20	-1.46	-1.20	-0.31	-2.13	-2.65
Upper Goulburn GMA	Current use	-1.14	0.81	-1.71	-2.55	-1.32	0.07	-1.32	-4.32
Upper Goulburn GMA	PCV use	-1.86	-1.13	-2.50	-3.32	-2.57	-1.27	-3.79	-5.58
Upper Goulburn GMA	200% PCV use	-2.55	-1.83	-3.24	-4.01	-5.63	-2.59	-5.17	-6.89

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Upper Murray GMA	No use	-0.77	1.75	-1.96	-2.85	-1.85	1.05	-3.15	-4.82
Upper Murray GMA	Current use	-0.89	1.64	-1.64	-2.81	-1.32	0.59	-1.32	-4.84
Upper Murray GMA	PCV use	-1.40	-0.16	-2.16	-3.29	-2.16	-0.31	-3.43	-5.58
Upper Murray GMA	200% PCV use	-2.17	-0.94	-2.94	-4.05	-5.79	-1.50	-4.62	-6.75
Upper Ovens WSPA	No use	-0.15	1.25	-0.61	-1.14	-0.59	1.07	-1.30	-2.49
Upper Ovens WSPA	Current use	-1.32	0.91	-1.88	-2.81	-1.51	0.01	-1.51	-4.65
Upper Ovens WSPA	PCV use	-1.53	-0.73	-2.05	-2.86	-2.03	-0.69	-3.03	-4.75
Upper Ovens WSPA	200% PCV use	-2.05	-1.28	-2.59	-3.38	-3.31	-1.60	-3.92	-5.61
Wa De Lock GMA	No use	-0.35	0.09	-0.45	-1.01	-0.62	0.10	-1.01	-2.05
Wa De Lock GMA	Current use	-0.80	-0.08	-0.92	-1.31	-0.95	-0.45	-0.95	-1.96
Wa De Lock GMA	PCV use	-1.06	-0.81	-1.16	-1.43	-1.43	-1.04	-1.66	-2.17
Wa De Lock GMA	200% PCV use	-1.57	-1.31	-1.67	-1.93	-1.32	-1.88	-2.52	-3.00
Wandin Yallock GMA	No use	-0.52	0.51	-0.97	-1.54	-1.35	-0.30	-2.04	-2.76
Wandin Yallock GMA	Current use	0.29	1.52	-0.07	-0.98	0.08	1.05	0.08	-2.52
Wandin Yallock GMA	PCV use	-1.75	-0.68	-2.64	-4.36	-2.26	-0.26	-4.44	-8.26
Wandin Yallock GMA	200% PCV use	-2.46	-1.39	-3.37	-5.06	-7.04	-1.68	-5.90	-9.66
Warrion WSPA	No use	-0.78	-0.24	-0.77	-1.74	-1.47	-0.54	-2.04	-3.75
Warrion WSPA	Current use	-0.55	-0.21	-0.68	-1.68	-1.13	-0.68	-1.13	-3.11
Warrion WSPA	PCV use	-2.90	-1.78	-3.39	-5.71	-6.15	-4.86	-7.56	-10.54
Warrion WSPA	200% PCV use	-4.73	-3.59	-5.23	-7.49	-10.19	-8.59	-11.34	-14.23
West Goulburn GMA	No use	-1.90	-1.04	-2.75	-4.31	-2.86	-0.38	-4.85	-8.81
West Goulburn GMA	Current use	-2.25	-0.59	-2.89	-3.76	-2.49	-0.86	-2.49	-6.06
West Goulburn GMA	PCV use	-2.63	-1.96	-3.31	-4.09	-3.16	-1.64	-4.44	-6.55
West Goulburn GMA	200% PCV use	-3.52	-2.86	-4.25	-4.95	-4.03	-2.99	-5.84	-7.84
Wy Yung GMA	No use	-0.25	0.39	-0.24	-0.88	-0.48	0.32	-0.74	-1.71

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Wy Yung GMA	Current use	-0.06	0.72	-0.18	-0.66	-0.16	0.41	-0.16	-1.30
Wy Yung GMA	PCV use	-0.47	-0.20	-0.54	-0.84	-0.88	-0.51	-1.09	-1.55
Wy Yung GMA	200% PCV use	-0.97	-0.71	-1.06	-1.34	-0.93	-1.39	-1.99	-2.42
Yangery WSPA	No use	0.57	0.28	0.10	0.00	0.56	0.27	-0.11	-0.49
Yangery WSPA	Current use	0.23	0.44	0.04	-0.54	-0.03	0.24	-0.03	-1.27
Yangery WSPA	PCV use	-0.10	0.33	-0.42	-1.39	-1.03	-0.63	-1.69	-2.92
Yangery WSPA	200% PCV use	-0.47	-0.04	-0.80	-1.76	-1.45	-1.39	-2.47	-3.67

The image features a landscape photograph of a river with trees, overlaid with a blue semi-transparent rectangle. The text is centered within this rectangle. The background shows a river with a sandy bank and a line of trees in the distance, with a large tree trunk in the foreground on the right. The sky is clear and blue.

Appendix KK
Use-drawdown relationships
for Terrestrial GDEs

Table KK-1 Relationship between change in elevation of the watertable (as average annual maximum groundwater elevation) at terrestrial GDEs and groundwater use by GMU, as the coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0.

GMU	Relationship between change in elevation of the watertable at terrestrial GDEs and groundwater use by GMU <i>Coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0</i>							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Barnawartha GMA	-0.002268	-0.000160	-0.002780	-0.005004	-0.003282	-0.000736	-0.005526	-0.009426
Big Desert Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Broken GMA	-0.000332	-0.000263	-0.000426	-0.000609	-0.000456	-0.000230	-0.000633	-0.001062
Bungaree GMA	-0.000543	-0.000364	-0.000723	-0.001063	-0.000701	-0.000096	-0.000914	-0.001741
Cardigan GMA	-0.000938	-0.000666	-0.001256	-0.001749	-0.001012	-0.000273	-0.001565	-0.002761
Central Victorian Mineral Springs GMA	-0.000532	-0.000360	-0.000765	-0.000971	-0.000750	-0.000264	-0.001126	-0.001821
Colongulac GMA	0.000320	0.000704	-0.000081	-0.000837	-0.001049	0.000305	-0.000783	-0.001788
Denison GMA	-0.000126	-0.000098	-0.000142	-0.000171	-0.000195	-0.000131	-0.000193	-0.000250
Deutgam WSPA	-0.000298	-0.000214	-0.000383	-0.000528	-0.000700	-0.000396	-0.000707	-0.000995
Eildon GMA	-0.002510	-0.001583	-0.003163	-0.004389	-0.004918	-0.002208	-0.004898	-0.007479
Frankston GMA	-0.001795	-0.001121	-0.002509	-0.003576	-0.001840	-0.001368	-0.003766	-0.005915
Gellibrand GMA	-1.148602	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	-0.354726	-0.290702	-0.351758	-0.476647	-0.951349	-0.785269	-0.908760	-1.059598
Glenelg WSPA	-0.000011	-0.000004	-0.000021	-0.000033	-0.000031	-0.000019	-0.000054	-0.000079
Glenormiston GMA	-0.000085	0.000155	-0.000553	-0.000874	-0.000138	0.000072	-0.000770	-0.001334
Gymbowen Zone (West Wimmera)	-0.007121	-0.004271	-0.010521	-0.014499	-0.016751	-0.005160	-0.017548	-0.027566
Hawkesdale GMA	-0.000037	-0.000011	-0.000070	-0.000104	-0.000100	-0.000052	-0.000123	-0.000172
Heywood GMA	-0.000060	-0.000047	-0.000070	-0.000099	-0.000056	-0.000102	-0.000138	-0.000175
Jan Juc GMA	-0.001257	-0.001130	-0.001266	-0.001478	-0.003464	-0.003024	-0.003246	-0.003464
Kiewa GMA	-0.000513	-0.000205	-0.000648	-0.000901	-0.000506	-0.000250	-0.000921	-0.001432
Koo Wee Rup WSPA	-0.000140	-0.000091	-0.000194	-0.000269	-0.000222	-0.000136	-0.000295	-0.000439
Lancefield GMA	-0.001739	-0.001008	-0.002666	-0.003359	-0.002117	0.000337	-0.002891	-0.005187
Leongatha GMA	-0.000918	-0.000651	-0.001245	-0.001557	-0.001557	-0.001613	-0.002300	-0.002715
Little Desert Zone (West Wimmera)	-0.609566	NA	NA	NA	NA	NA	NA	NA
Loddon Highlands WSPA	-0.000157	-0.000118	-0.000213	-0.000287	-0.000207	-0.000092	-0.000324	-0.000540
Lower Campaspe Valley WSPA	-0.000055	-0.000045	-0.000063	-0.000074	-0.000063	-0.000045	-0.000080	-0.000115
Lower Ovens GMA	-0.000065	-0.000037	-0.000079	-0.000122	-0.000075	-0.000035	-0.000127	-0.000218

GMU	Relationship between change in elevation of the watertable at terrestrial GDEs and groundwater use by GMU <i>Coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0</i>							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Merrimu GMA	-0.008993	-0.006808	-0.011324	-0.015122	-0.012202	-0.009215	-0.018841	-0.027601
Mid Goulburn GMA	-0.000083	-0.000069	-0.000098	-0.000117	-0.000081	-0.000073	-0.000131	-0.000183
Mid Loddon GMA	-0.000093	-0.000071	-0.000120	-0.000156	-0.000114	-0.000059	-0.000171	-0.000294
Moe GMA	-0.000678	-0.000524	-0.000814	-0.001029	-0.001243	-0.001031	-0.001449	-0.001815
Moorabbin GMA	-0.004404	-0.002424	-0.006361	-0.009441	-0.005849	-0.001383	-0.008566	-0.015410
Nepean GMA	-0.000573	-0.000465	-0.000670	-0.000814	-0.001250	-0.001153	-0.001393	-0.001615
Neurapur Zone (West Wimmera)	-0.001881	-0.000768	-0.002959	-0.004741	-0.004268	-0.000544	-0.005449	-0.009398
Newlingrook GMA	-0.000607	-0.000373	-0.000340	-0.000919	-0.003566	-0.002155	-0.002460	-0.003209
Northern Zone (West Wimmera)	-0.000079	-0.000045	-0.000073	-0.000189	-0.000167	-0.000053	-0.000139	-0.000286
Nullawarre WSPA	0.000004	0.000023	-0.000011	-0.000055	-0.000041	-0.000017	-0.000067	-0.000130
Shepparton Irrigation GMA	-0.000006	-0.000005	-0.000007	-0.000009	-0.000007	-0.000004	-0.000009	-0.000014
South West Limestone GMA	-0.000001	0.000002	-0.000003	-0.000010	-0.000015	-0.000007	-0.000016	-0.000025
Southern Zone (West Wimmera)	-0.000145	-0.000063	-0.000248	-0.000327	-0.000428	-0.000062	-0.000448	-0.000713
Strathbogje GMA	-0.001170	-0.000785	-0.001603	-0.002092	-0.002110	-0.000940	-0.002328	-0.003534
Tarwin GMA	-0.022540	-0.016172	-0.030982	-0.036177	-0.039893	-0.041487	-0.056323	-0.062814
Upper Goulburn GMA	-0.000288	-0.000188	-0.000372	-0.000472	-0.000566	-0.000260	-0.000577	-0.000806
Upper Murray GMA	-0.000368	-0.000111	-0.000519	-0.000739	-0.000872	-0.000200	-0.000805	-0.001241
Upper Ovens WSPA	-0.000338	-0.000171	-0.000437	-0.000586	-0.000511	-0.000219	-0.000636	-0.000973
Wa De Lock GMA	-0.000039	-0.000030	-0.000042	-0.000050	-0.000038	-0.000043	-0.000061	-0.000077
Wandin Yallock GMA	-0.000503	-0.000239	-0.000715	-0.001117	-0.001241	-0.000258	-0.001233	-0.002138
Warrion WSPA	-0.000230	-0.000166	-0.000258	-0.000388	-0.000492	-0.000408	-0.000561	-0.000731
West Goulburn GMA	-0.000021	-0.000016	-0.000025	-0.000030	-0.000024	-0.000016	-0.000034	-0.000047
Wy Yung GMA	-0.000084	-0.000053	-0.000093	-0.000125	-0.000096	-0.000112	-0.000176	-0.000227
Yangery WSPA	-0.000016	0.000006	-0.000033	-0.000082	-0.000064	-0.000054	-0.000108	-0.000172



Appendix LL
Waterway GDEs and stream
gauges by GMU

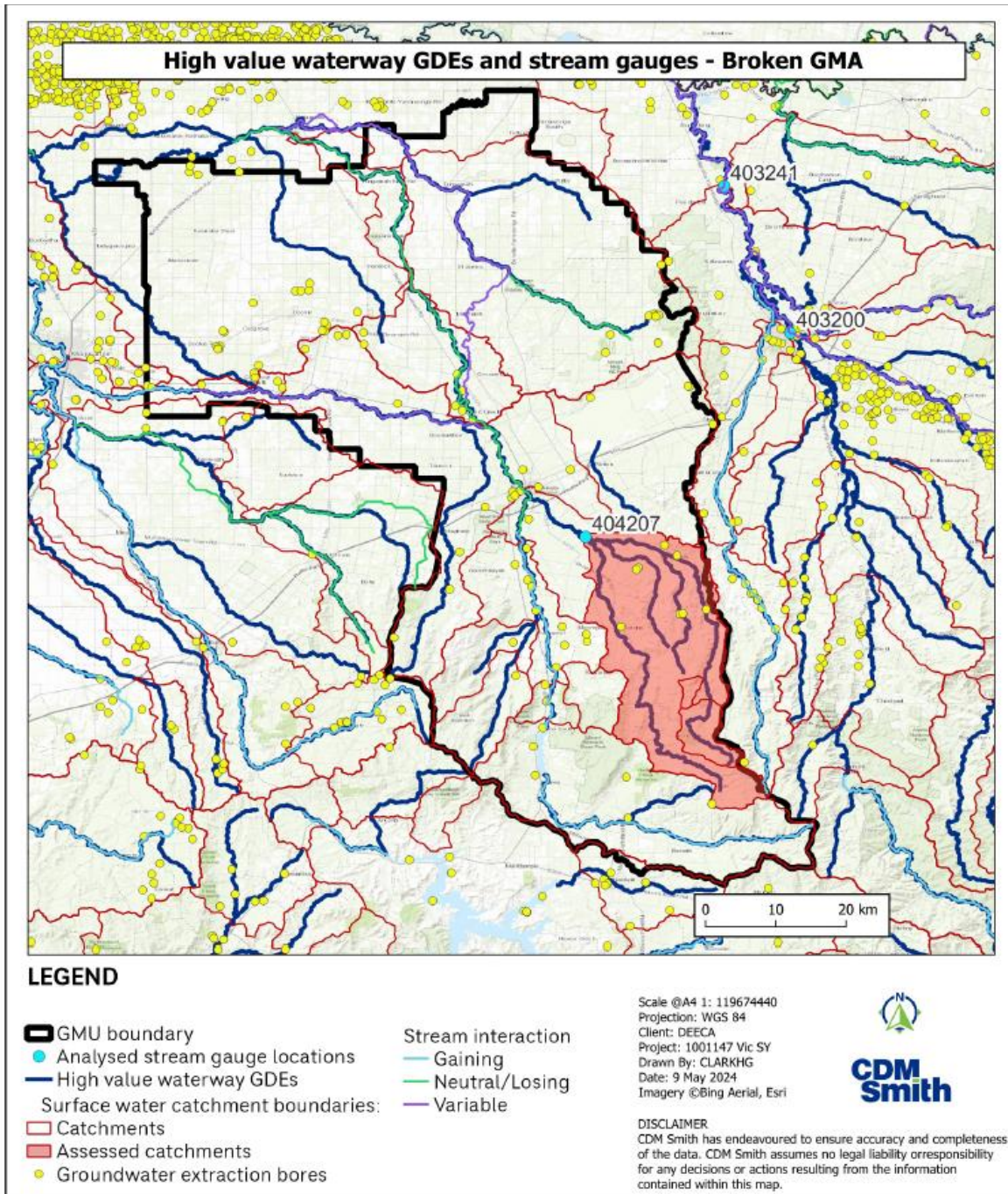


Figure LL-1 Waterway GDEs, stream gauges and catchment boundaries for the Broken GMA.

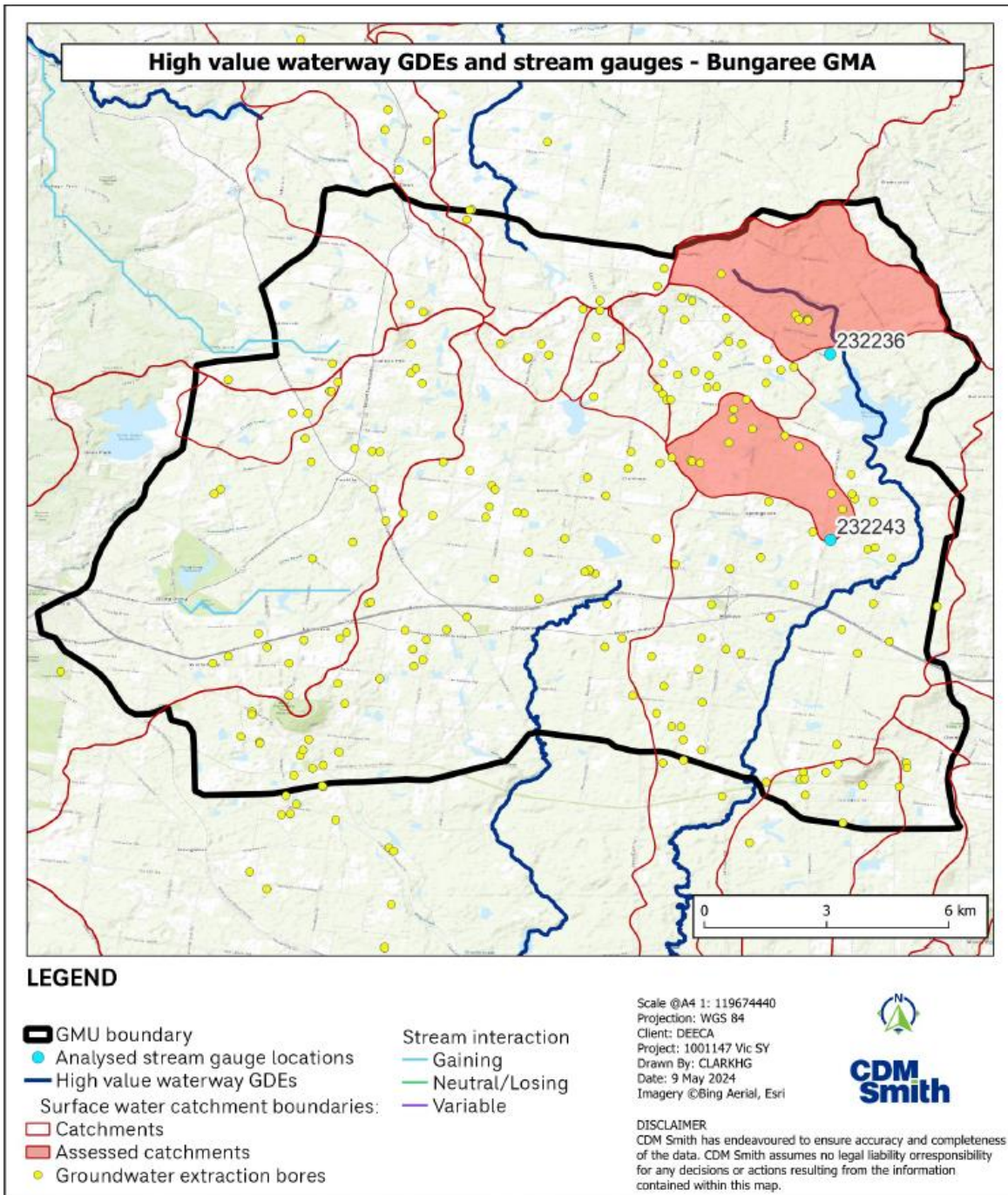


Figure LL-2 Waterway GDEs, stream gauges and catchment boundaries for the Bungaree GMA.

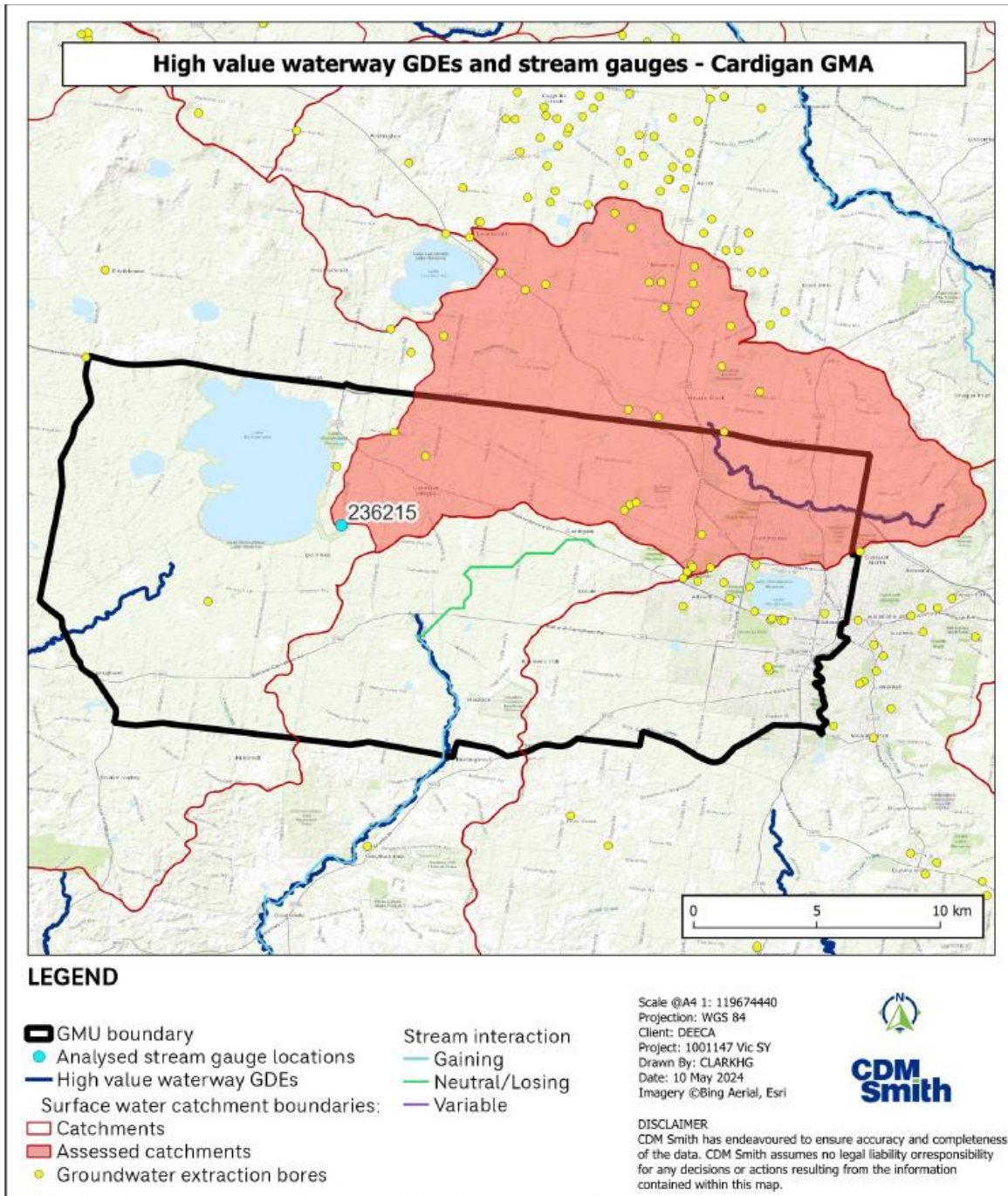


Figure LL-3 Waterway GDEs, stream gauges and catchment boundaries for the Cardigan GMA.

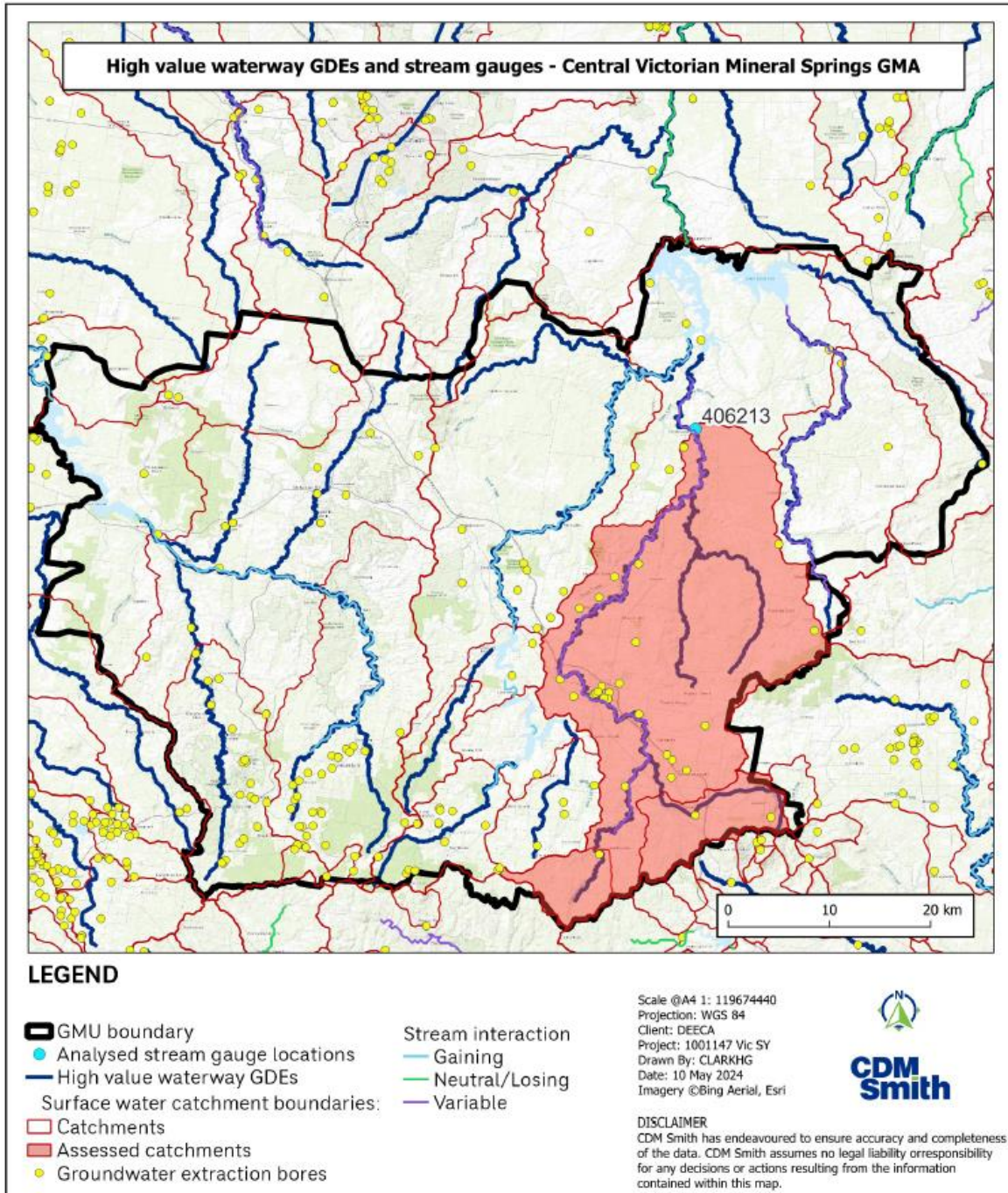


Figure LL-4 Waterway GDEs, stream gauges and catchment boundaries for the Central Victorian Mineral Springs GMA.

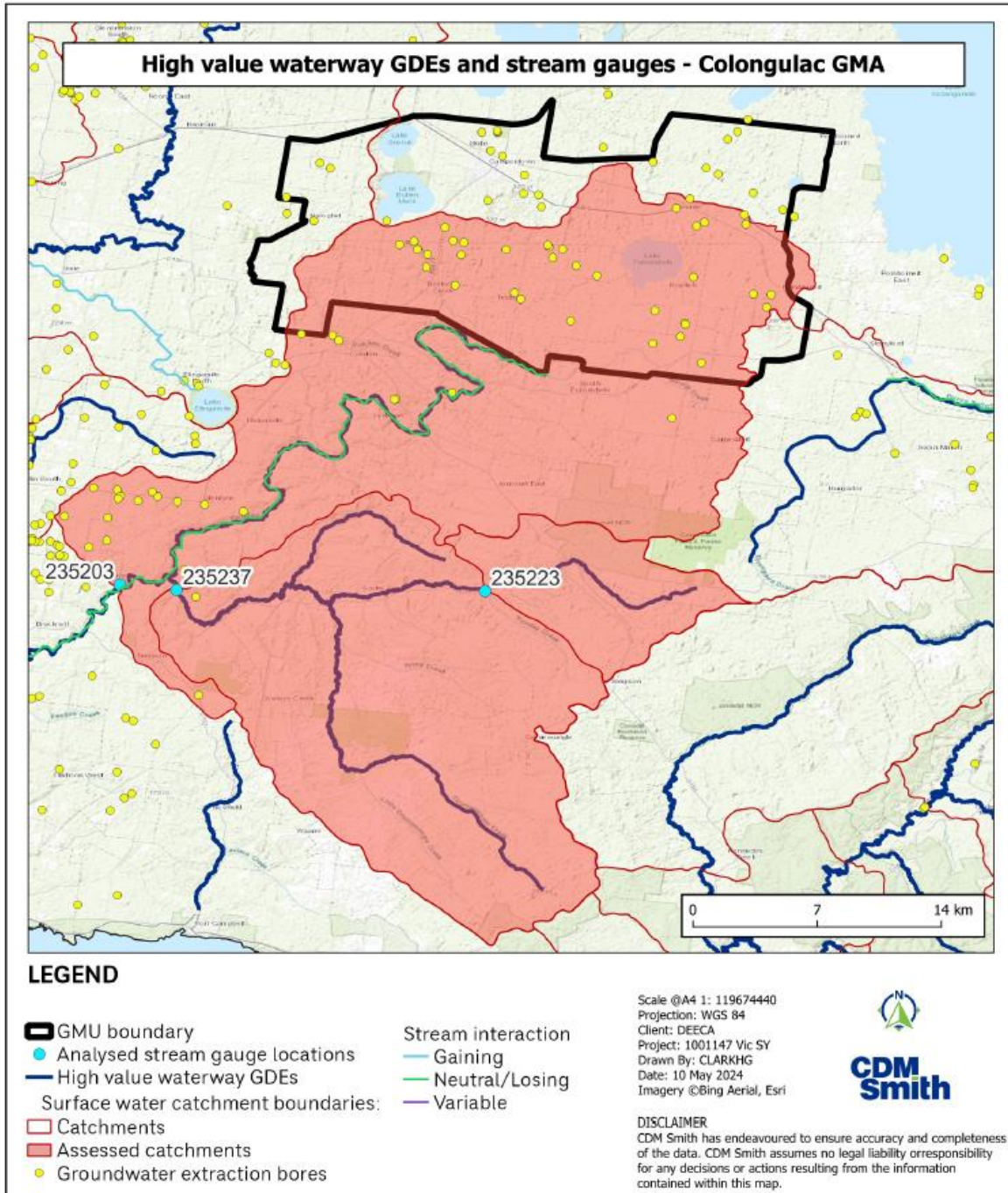


Figure LL-5 Waterway GDEs, stream gauges and catchment boundaries for the Colongulac GMA.

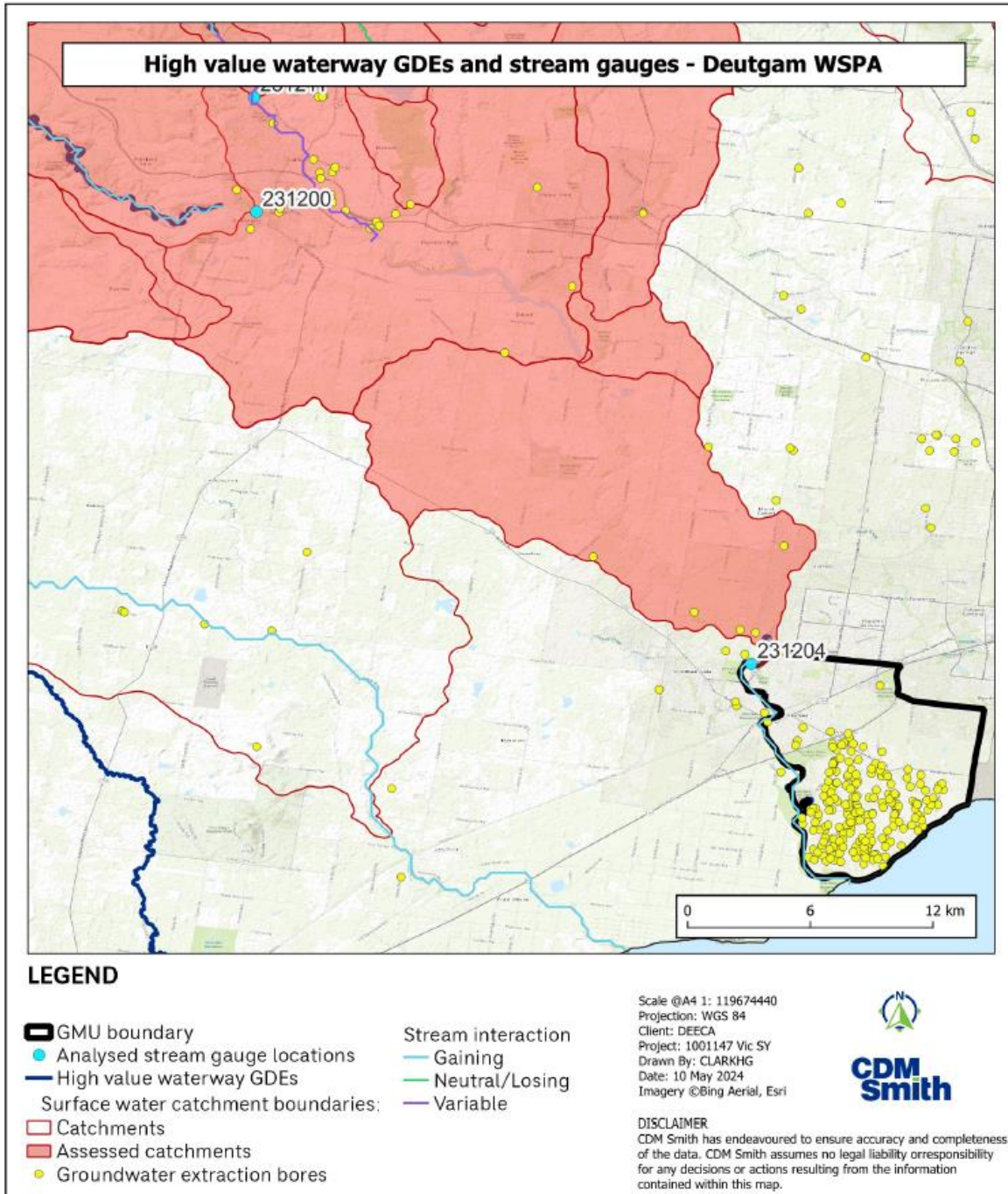


Figure LL-6 Waterway GDEs, stream gauges and catchment boundaries for the Deutgam WSPA.

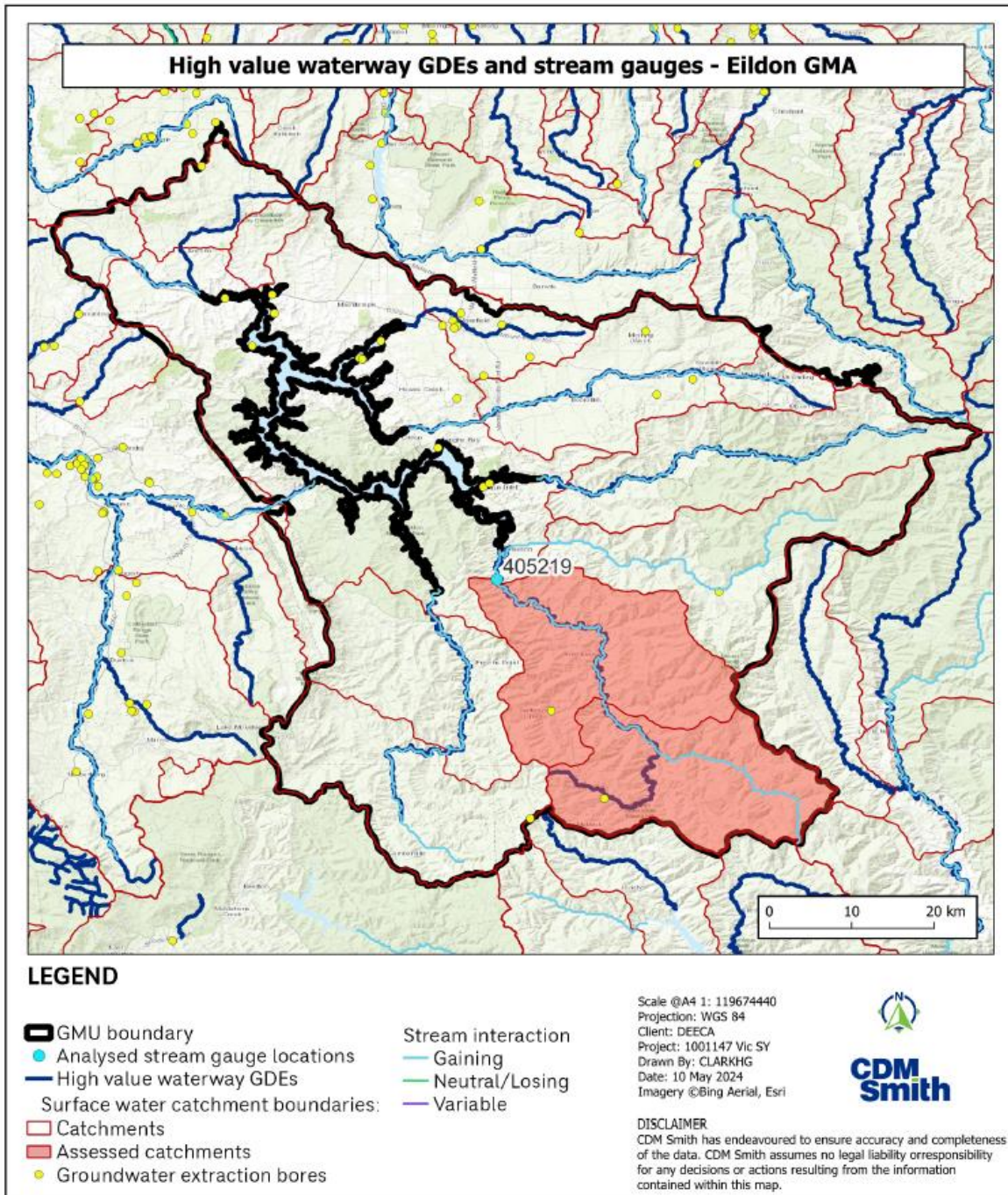


Figure LL-7 Waterway GDEs, stream gauges and catchment boundaries for the Eildon GMA.

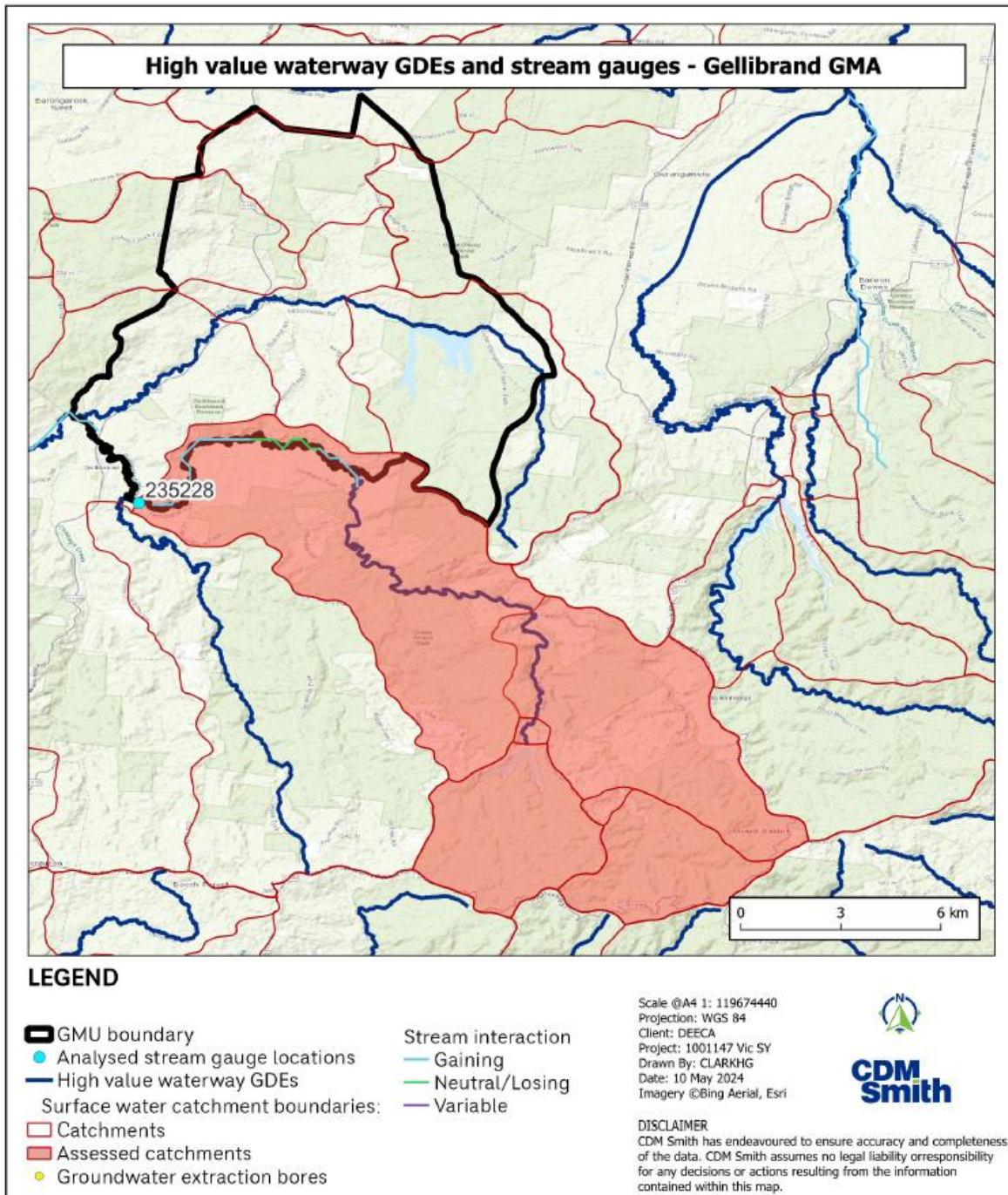


Figure LL-8 Waterway GDEs, stream gauges and catchment boundaries for the Gellibrand GMA.

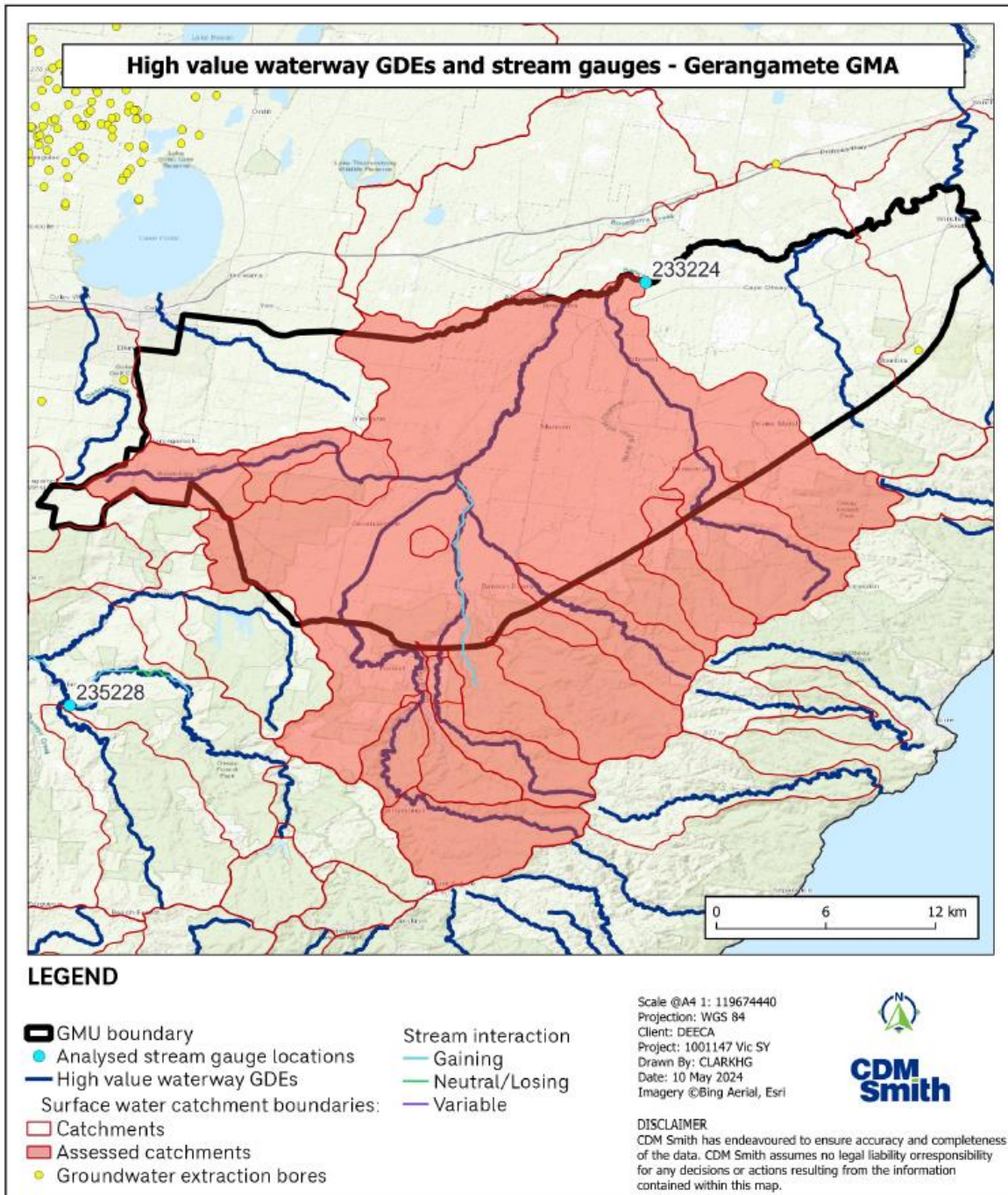


Figure LL-9 Waterway GDEs, stream gauges and catchment boundaries for the Gerangamete GMA.



Figure LL-10 Waterway GDEs, stream gauges and catchment boundaries for the Glenelg WSPA.

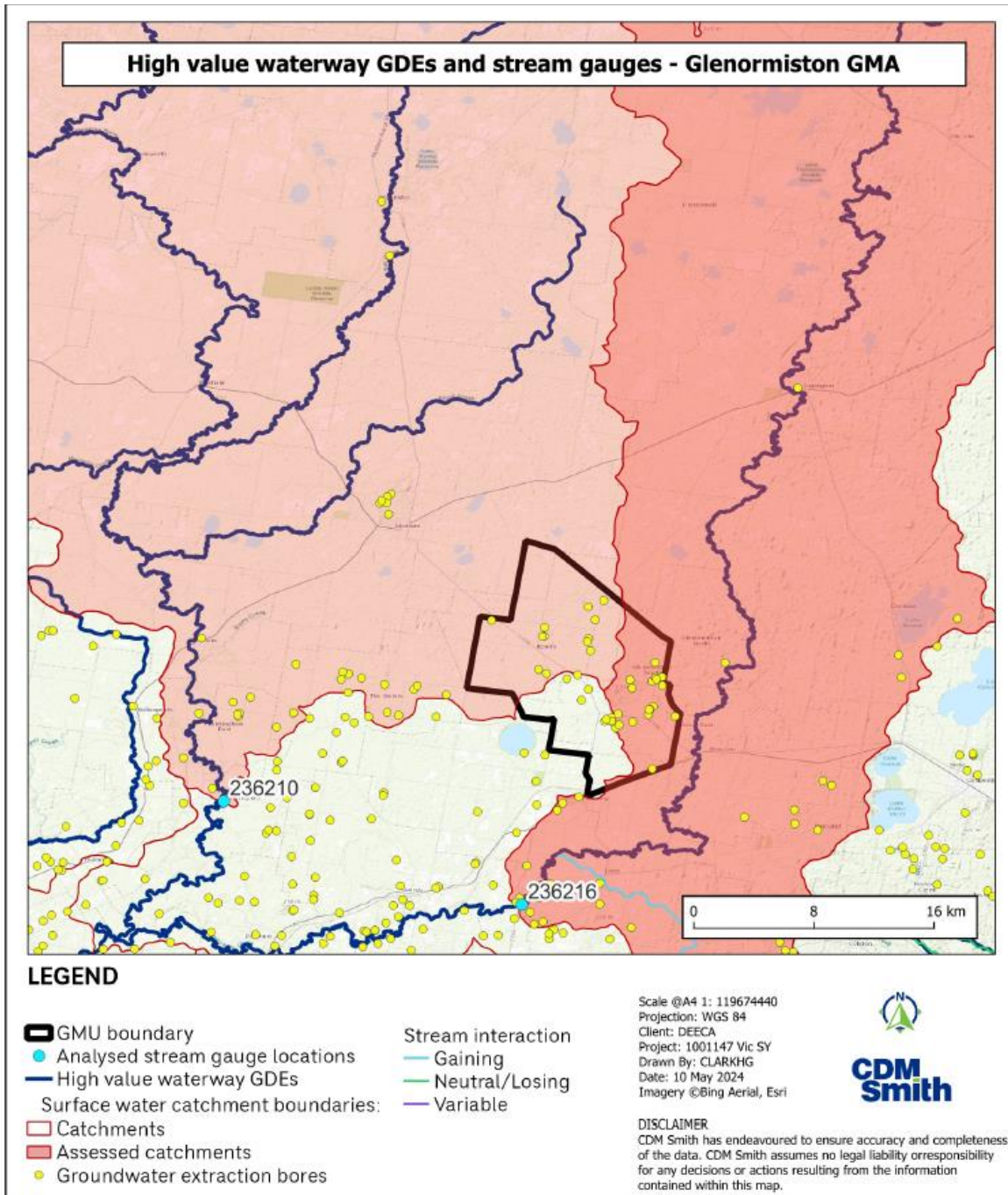


Figure LL-11 Waterway GDEs, stream gauges and catchment boundaries for the Glenormiston GMA.

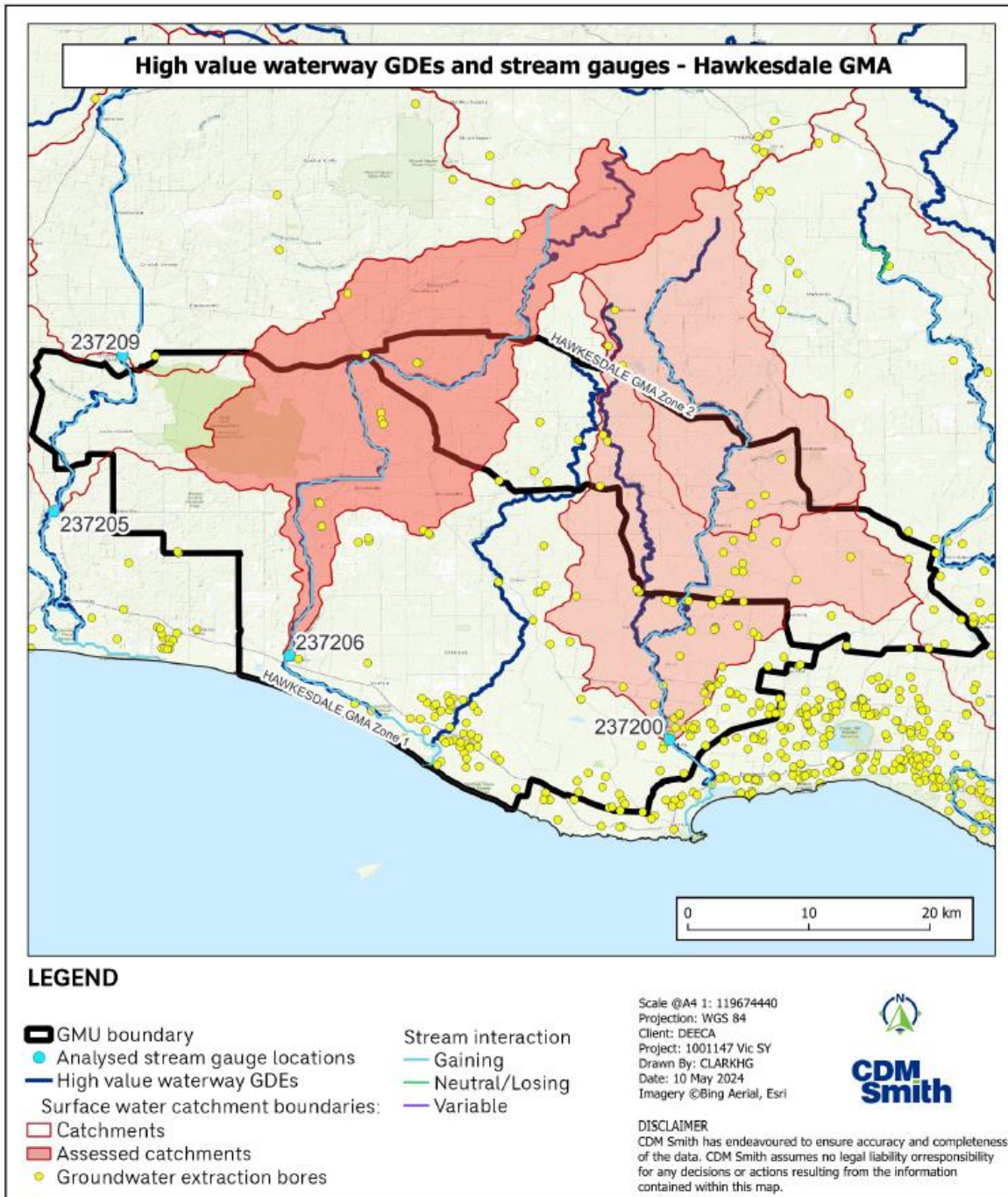


Figure LL-12 Waterway GDEs, stream gauges and catchment boundaries for the Hawkesdale GMA.

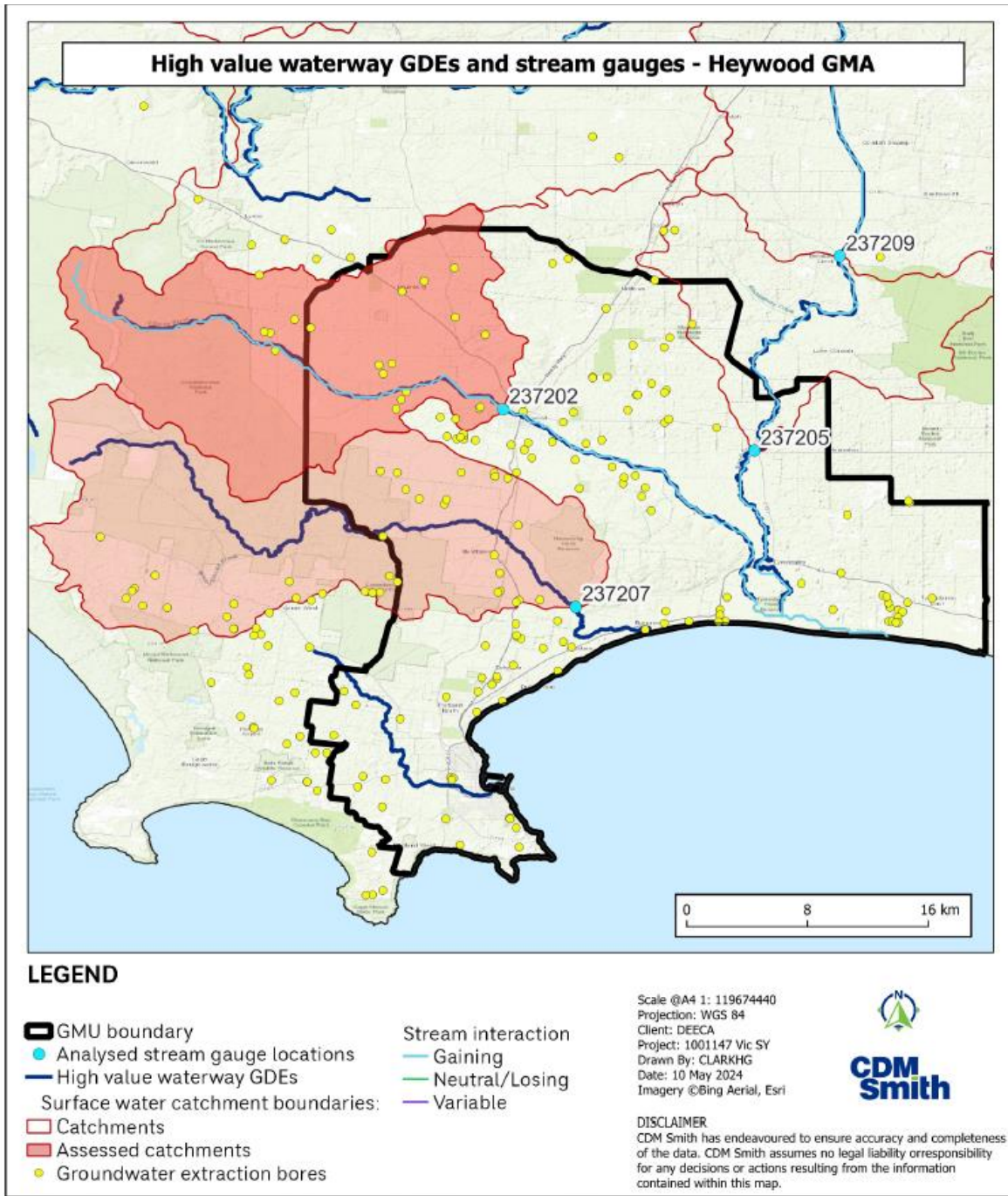


Figure LL-13 Waterway GDEs, stream gauges and catchment boundaries for the Heywood GMA.

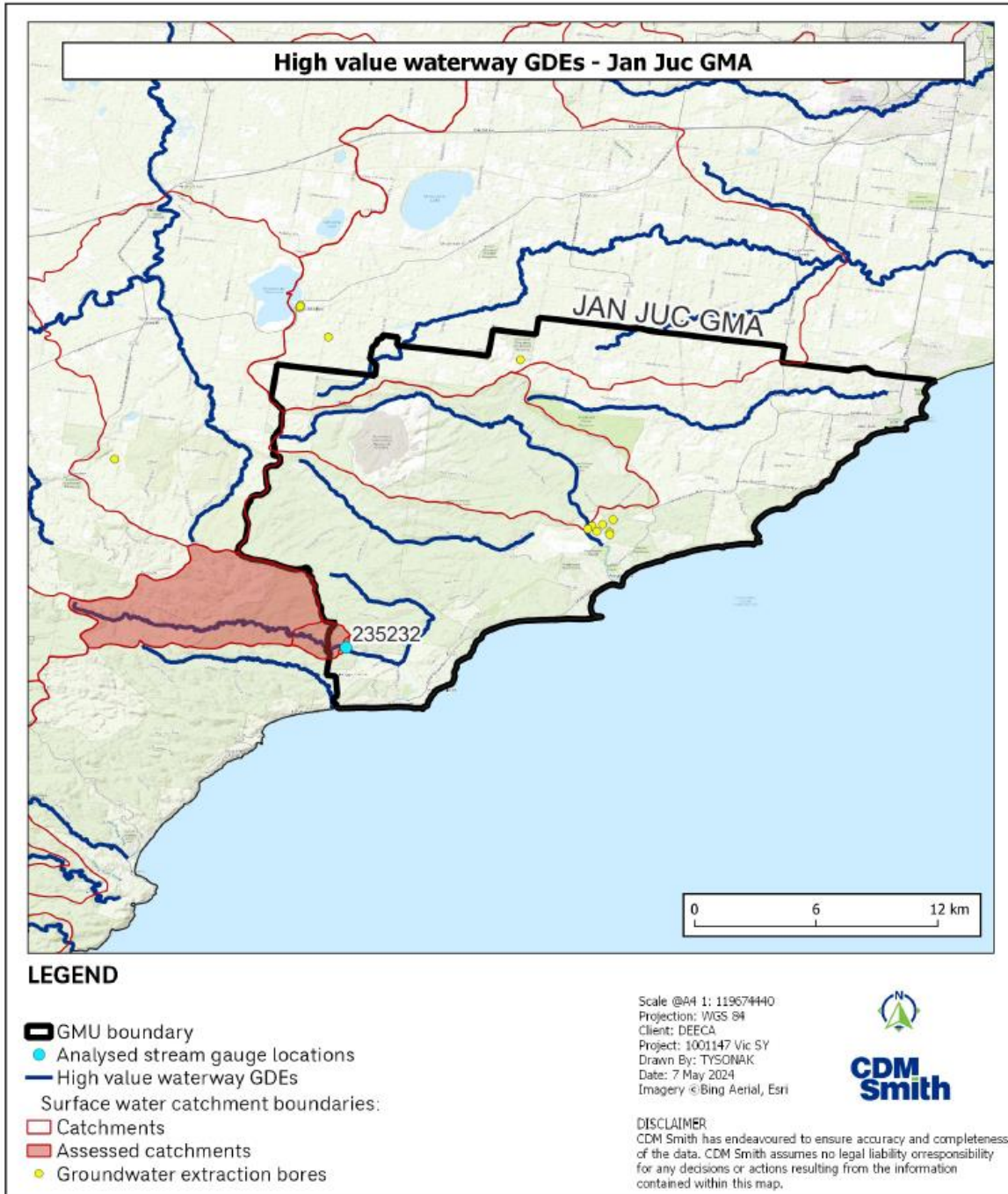


Figure LL-14 Waterway GDEs, stream gauges and catchment boundaries for the Jan Juc GMA.

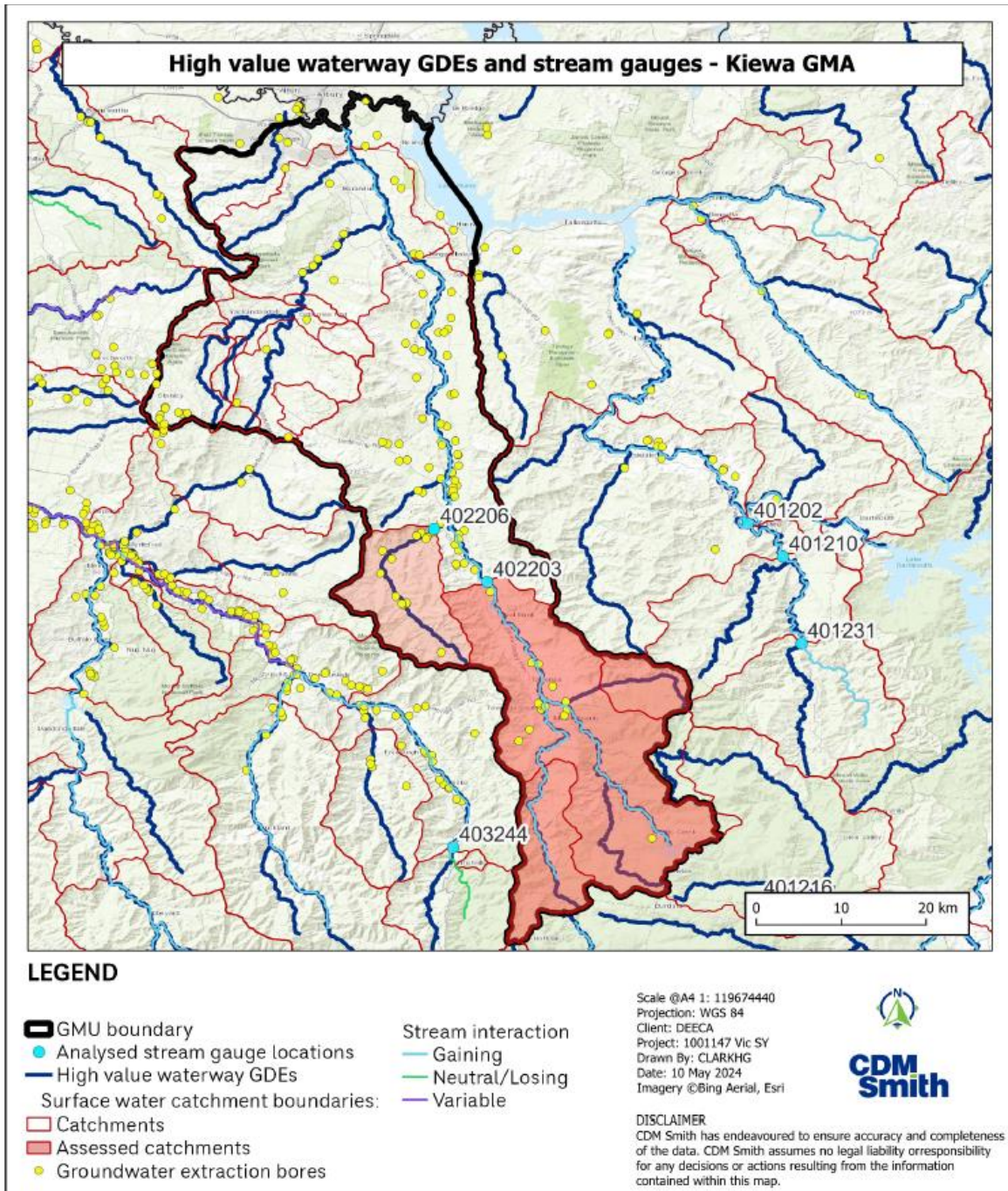


Figure LL-15 Waterway GDEs, stream gauges and catchment boundaries for the Kiewa GMA.

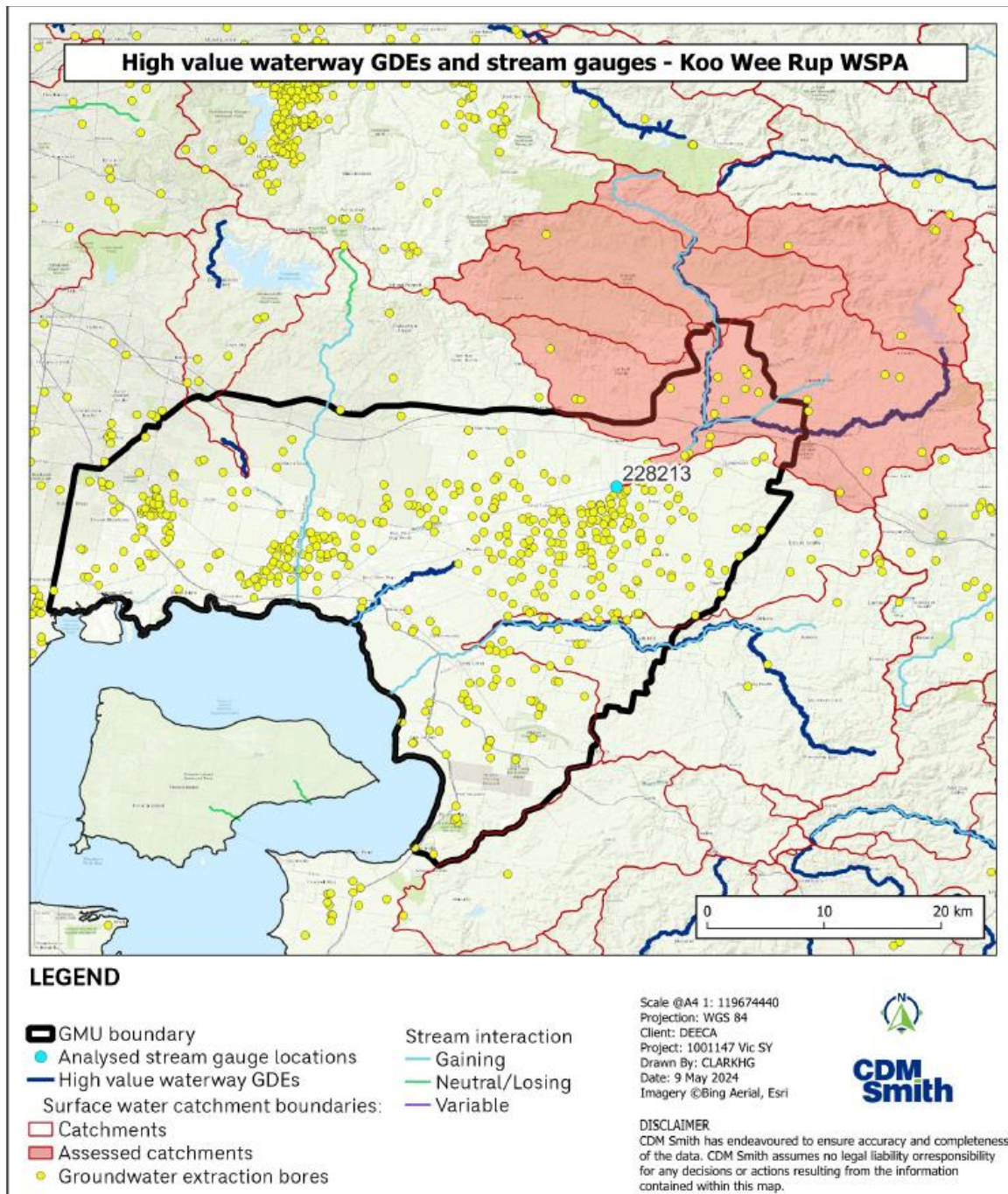


Figure LL-16 Waterway GDEs, stream gauges and catchment boundaries for the Koo Wee Rup WSPA.

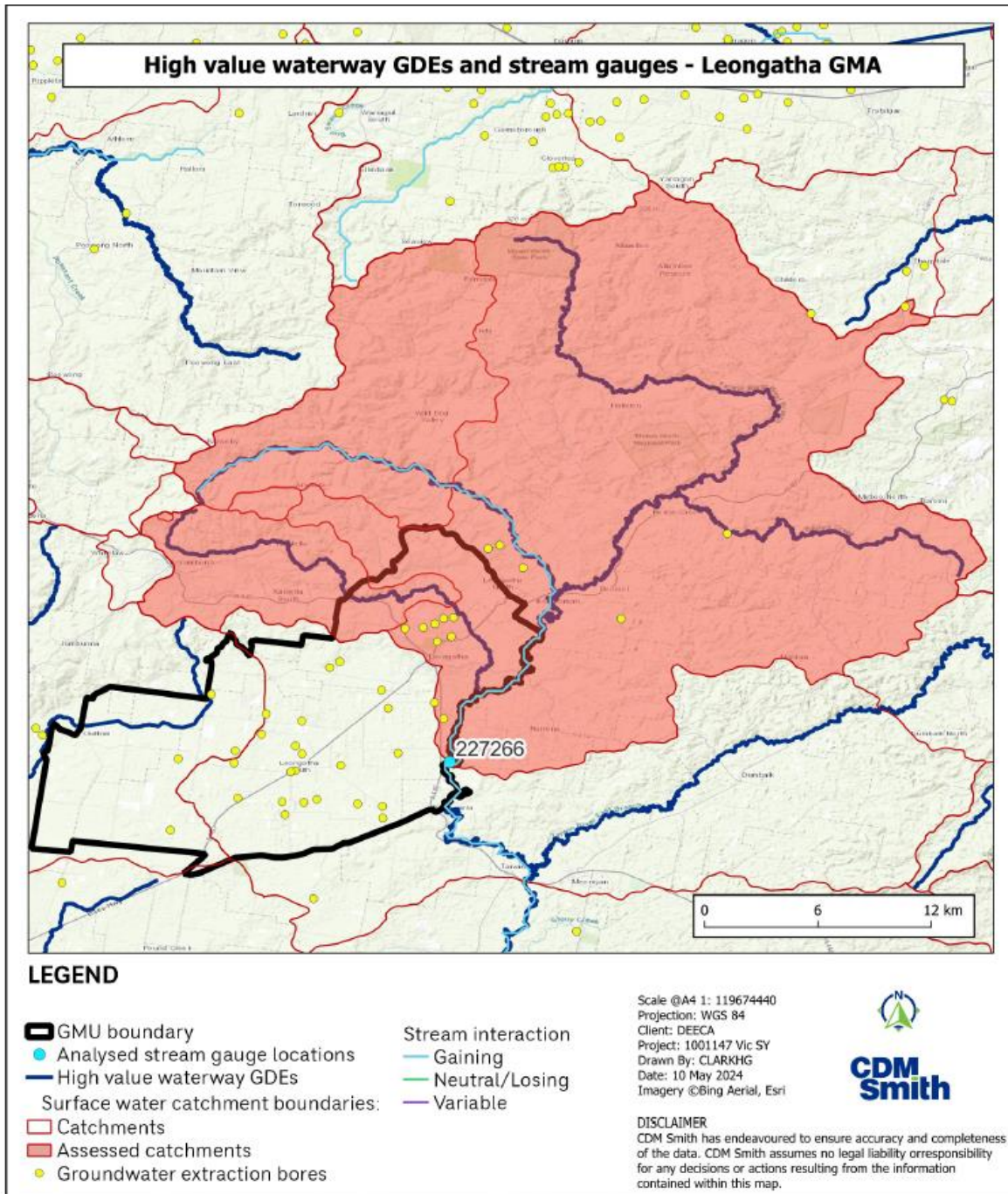


Figure LL-17 Waterway GDEs, stream gauges and catchment boundaries for the Leongatha GMA.

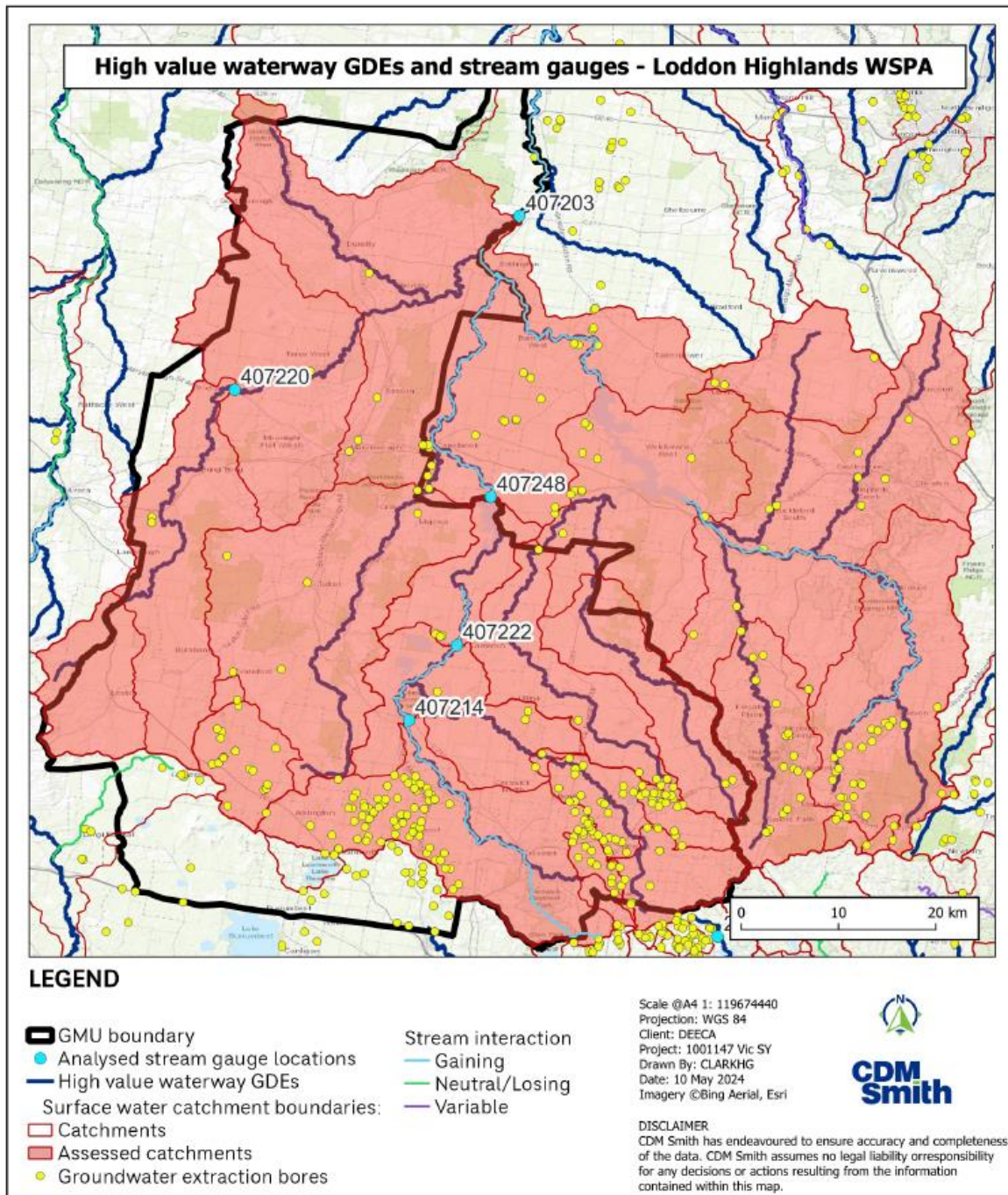


Figure LL-18 Waterway GDEs, stream gauges and catchment boundaries for the Loddon Highlands WSPA.

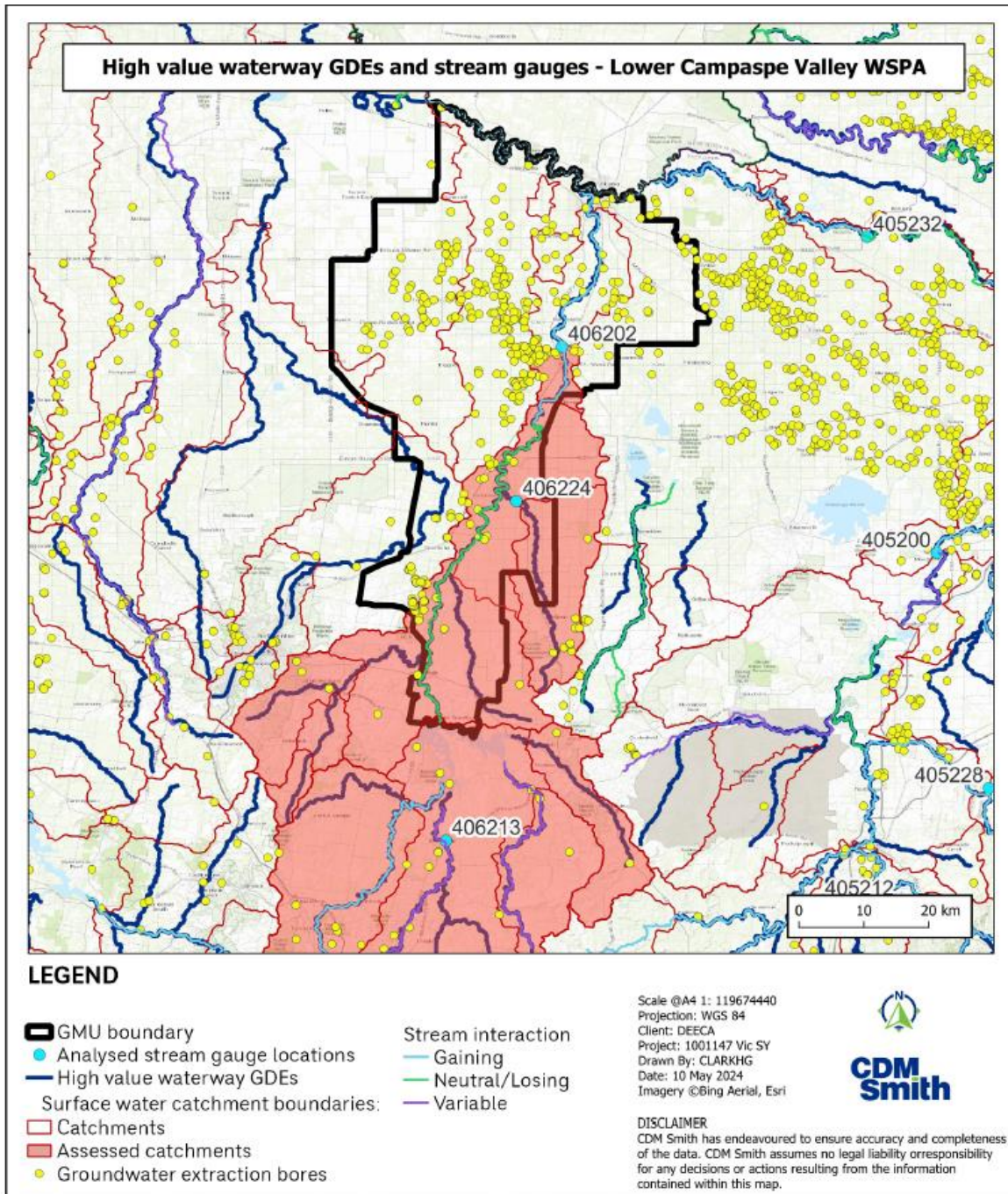


Figure LL-19 Waterway GDEs, stream gauges and catchment boundaries for the Lower Campaspe Valley WSPA.

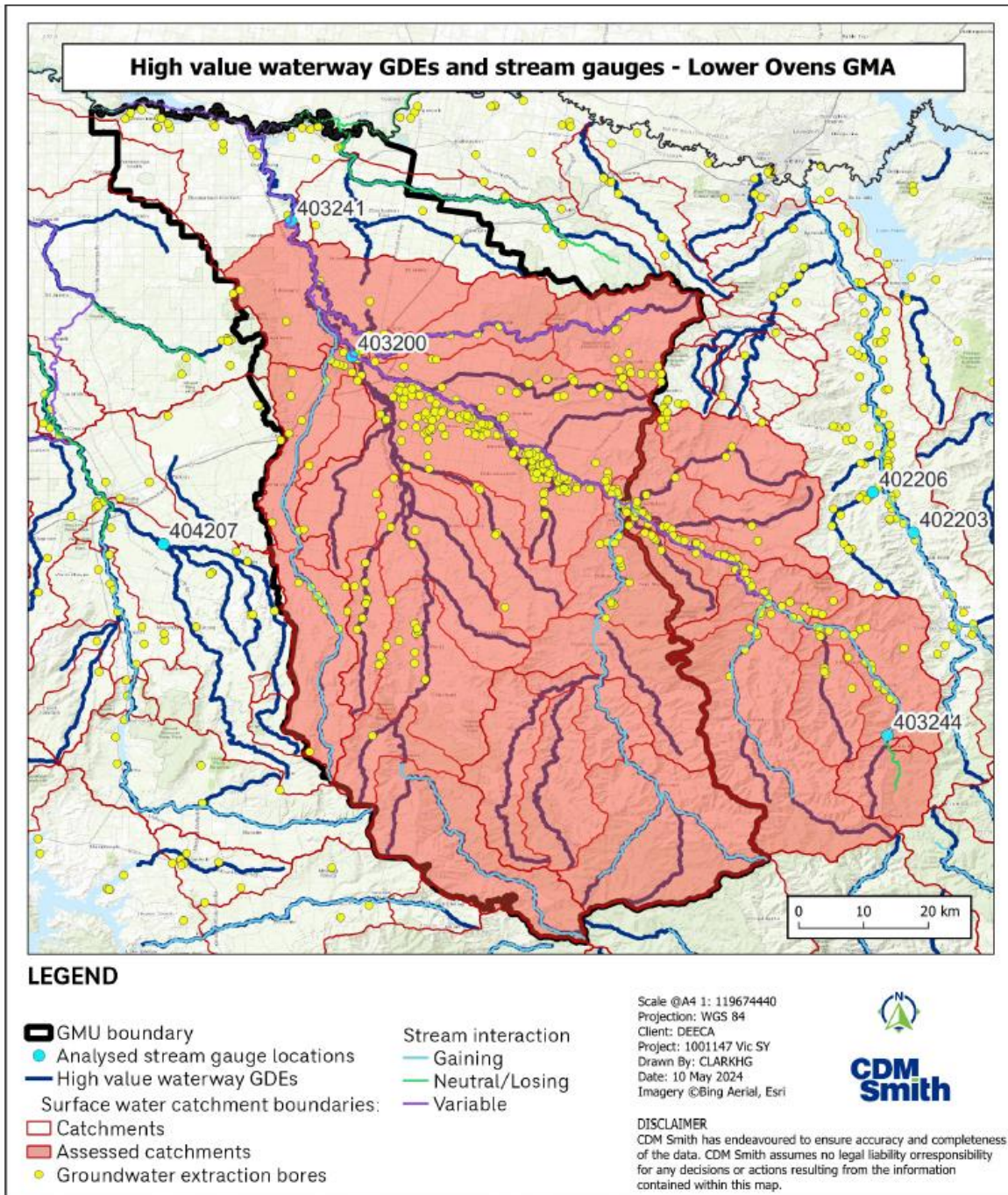


Figure LL-20 Waterway GDEs, stream gauges and catchment boundaries for the Lower Ovens GMA.

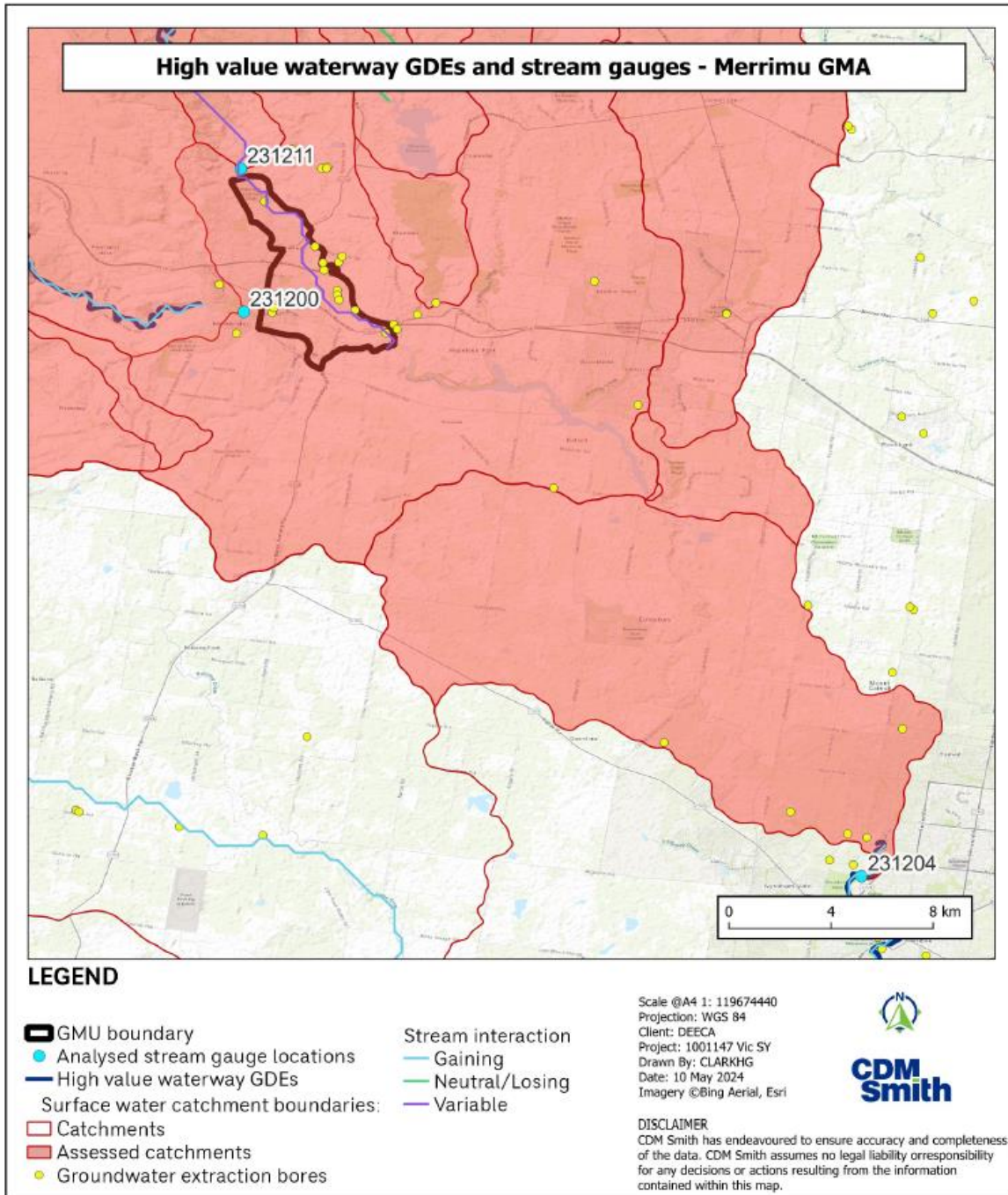


Figure LL-21 Waterway GDEs, stream gauges and catchment boundaries for the Merrimu GMA.

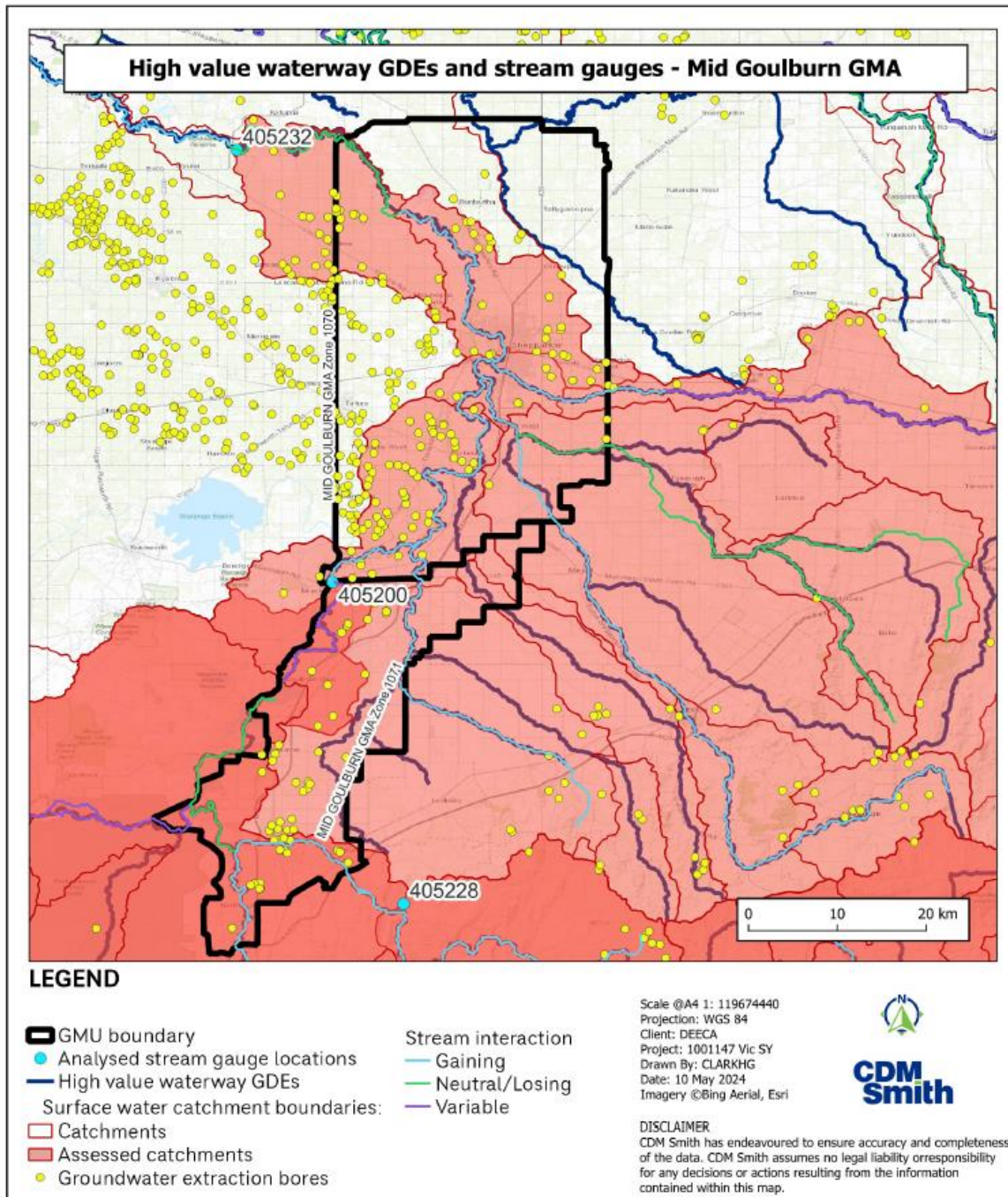


Figure LL-22 Waterway GDEs, stream gauges and catchment boundaries for the Mid Goulburn GMA.

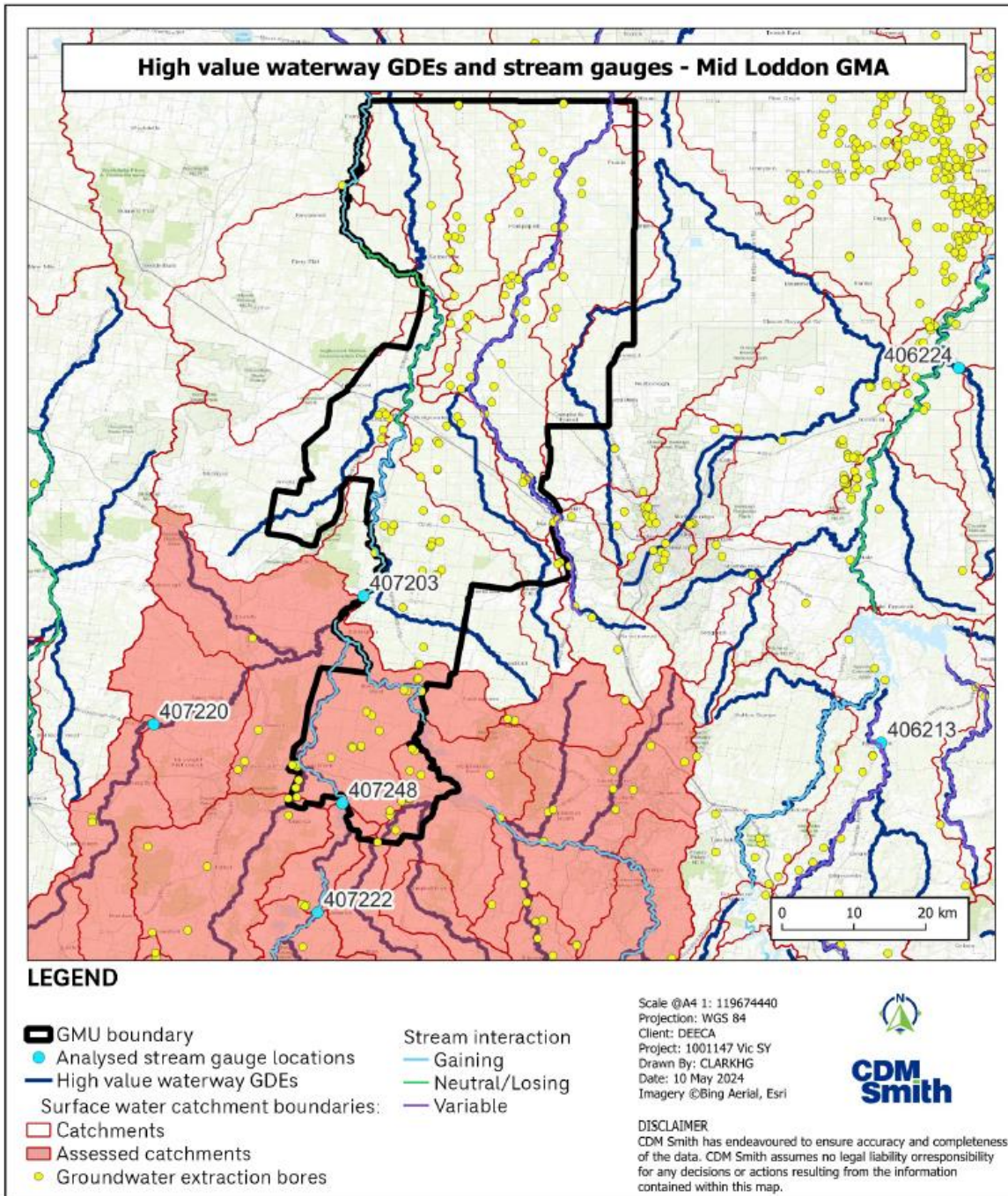


Figure LL-23 Waterway GDEs, stream gauges and catchment boundaries for the Mid Loddon GMA.

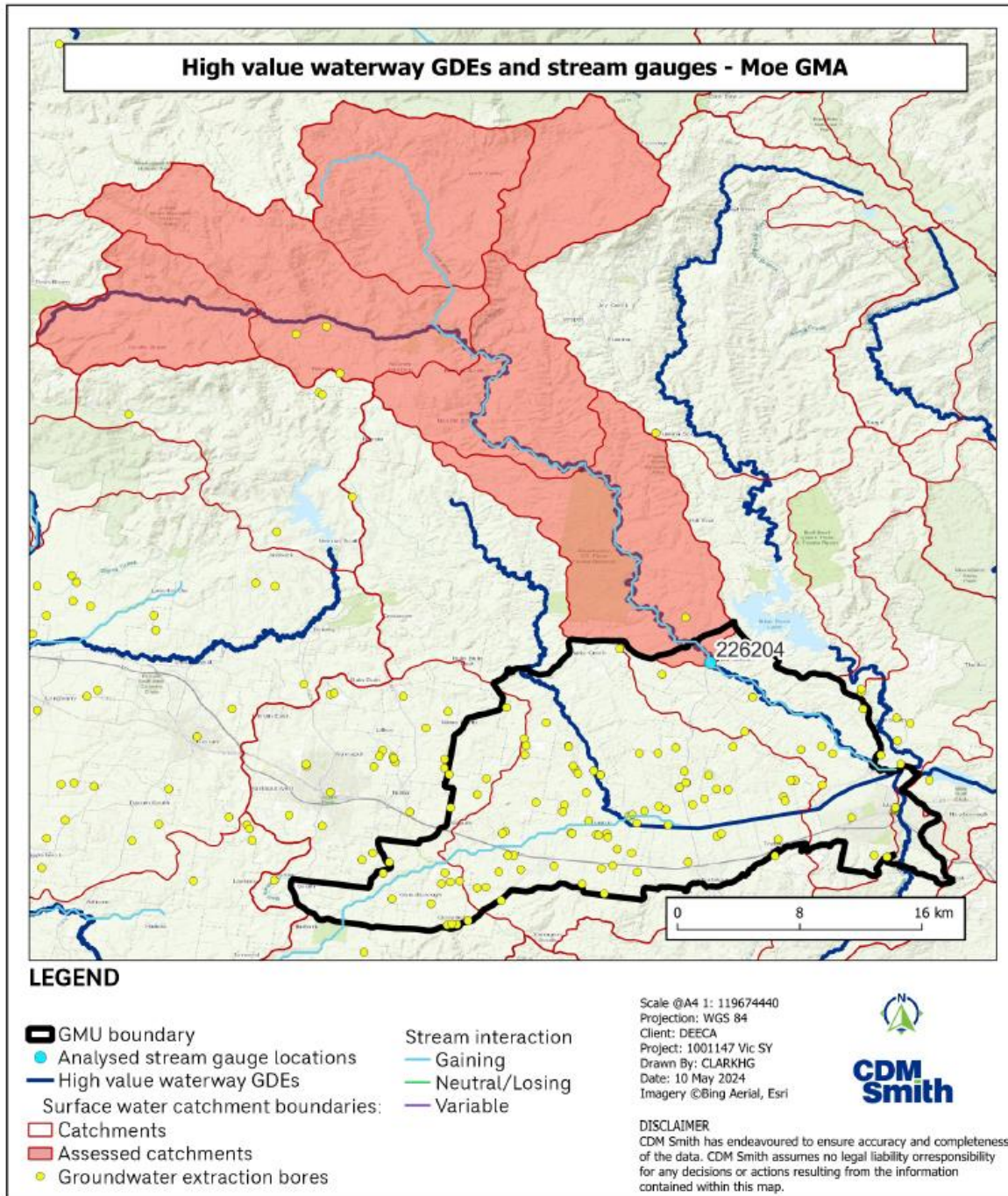


Figure LL-24 Waterway GDEs, stream gauges and catchment boundaries for the Moe GMA.

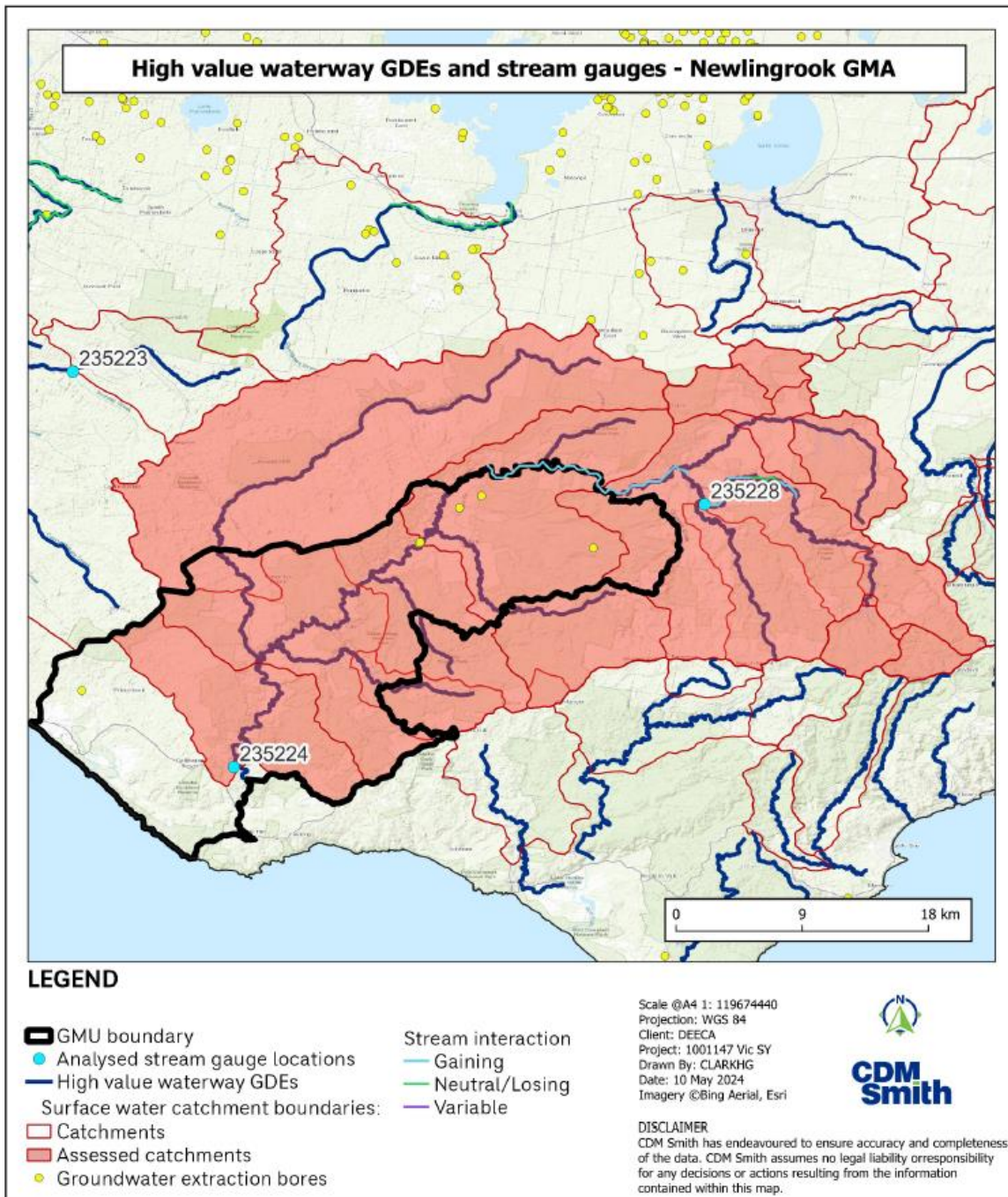


Figure LL-25 Waterway GDEs, stream gauges and catchment boundaries for the Newlingrook GMA.

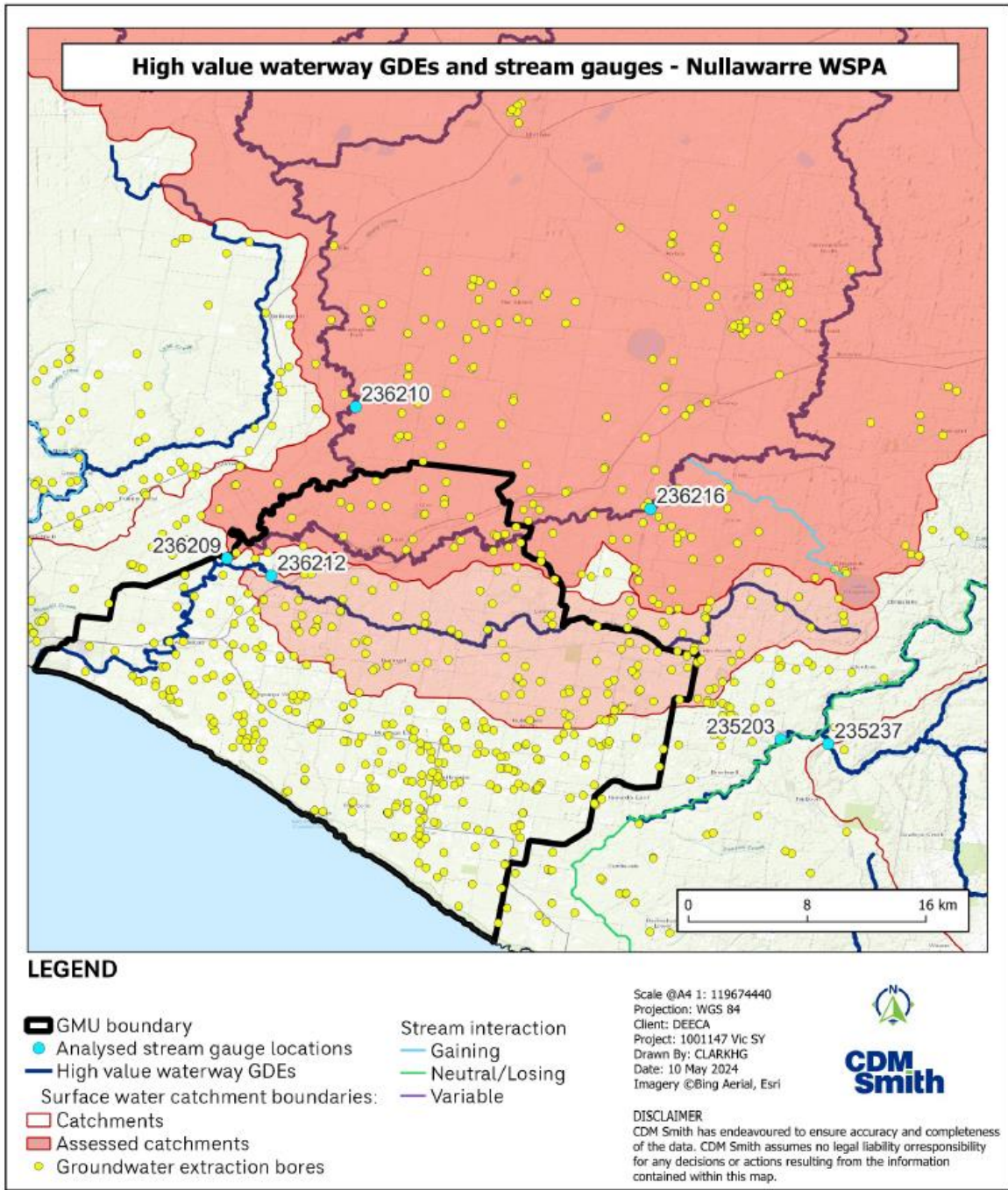


Figure LL-26 Waterway GDEs, stream gauges and catchment boundaries for the Nullawarre WSPA.

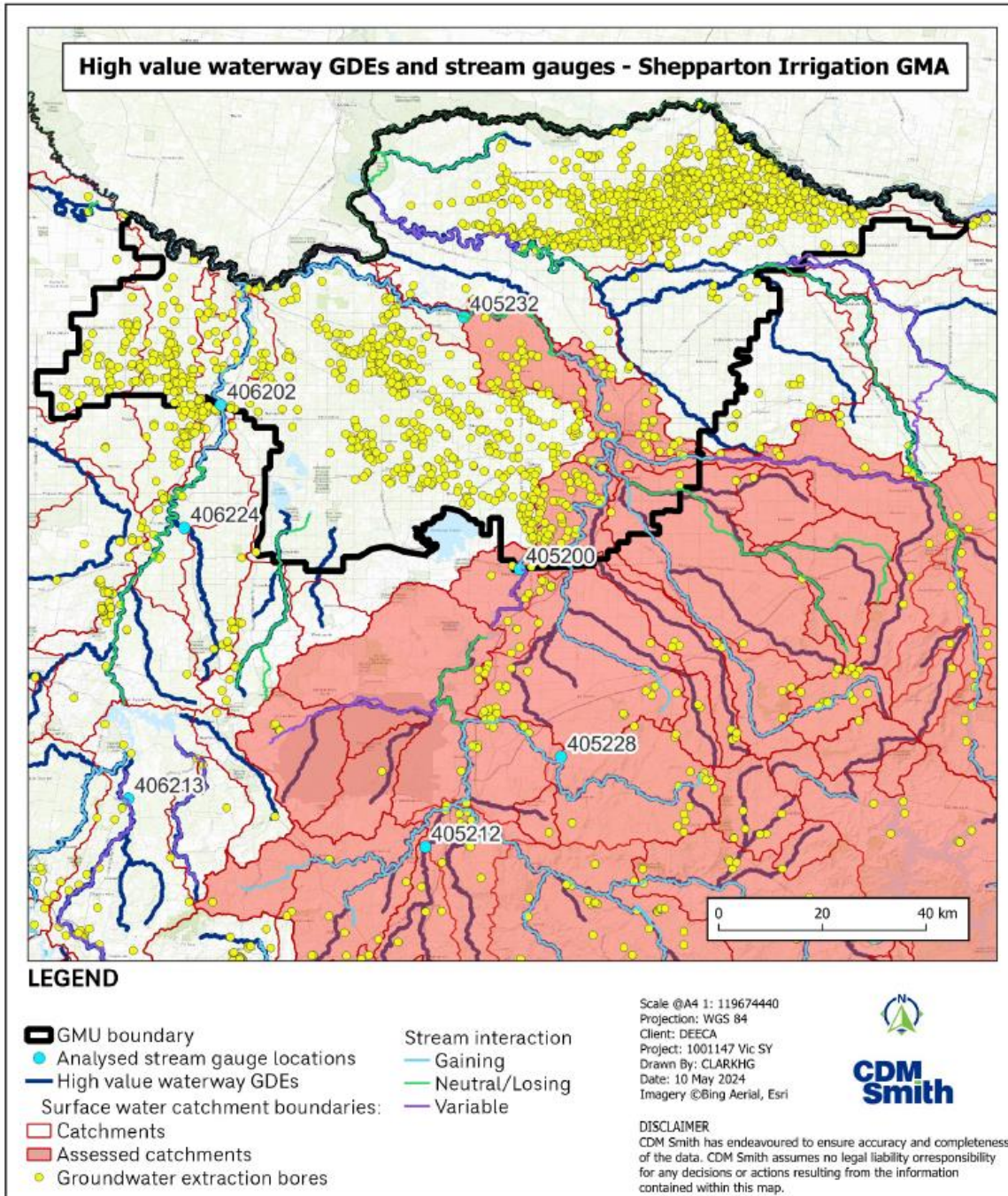


Figure LL-27 Waterway GDEs, stream gauges and catchment boundaries for the Shepparton Irrigation GMA.

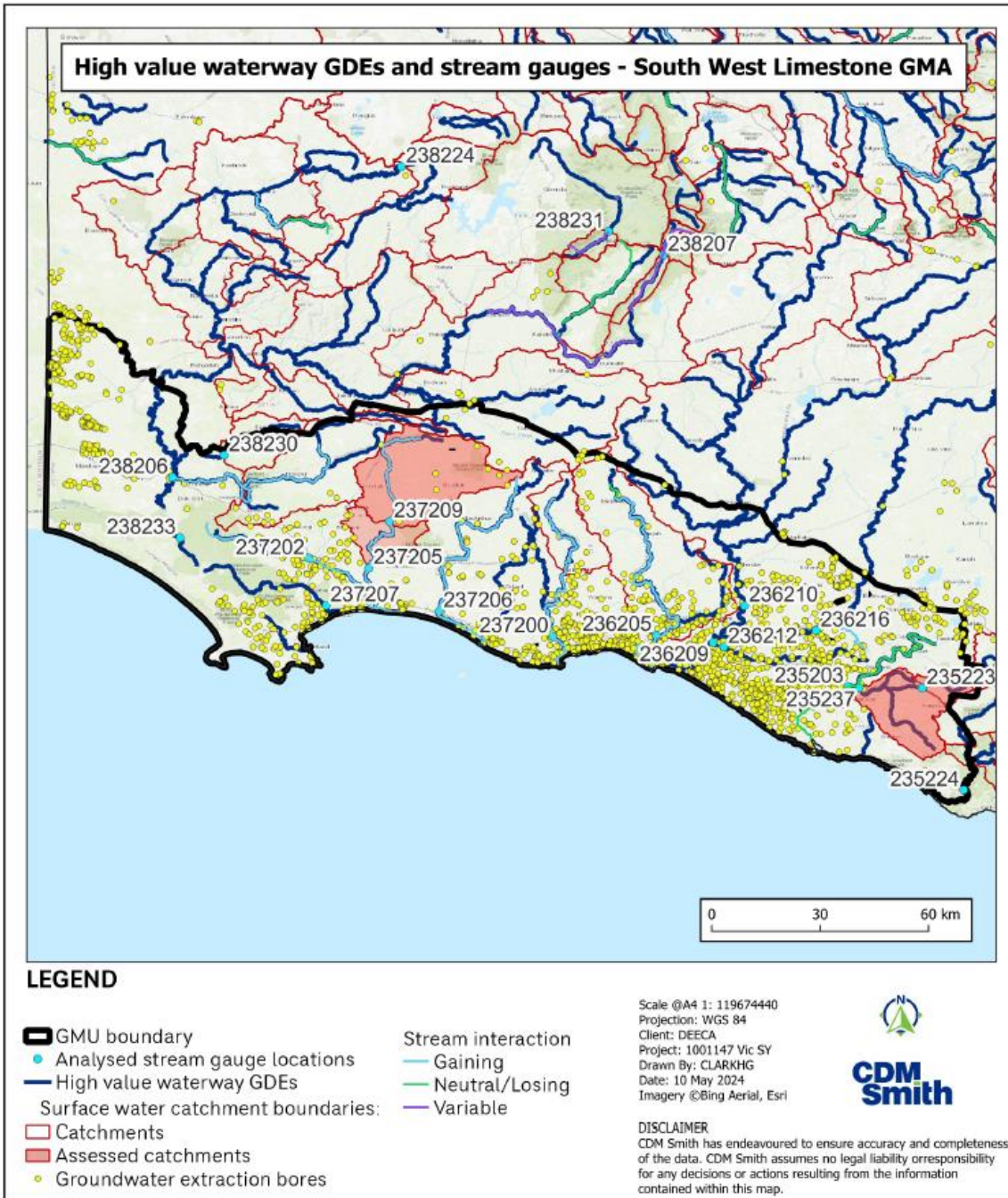


Figure LL-28 Waterway GDEs, stream gauges and catchment boundaries for the South West Limestone GMA.

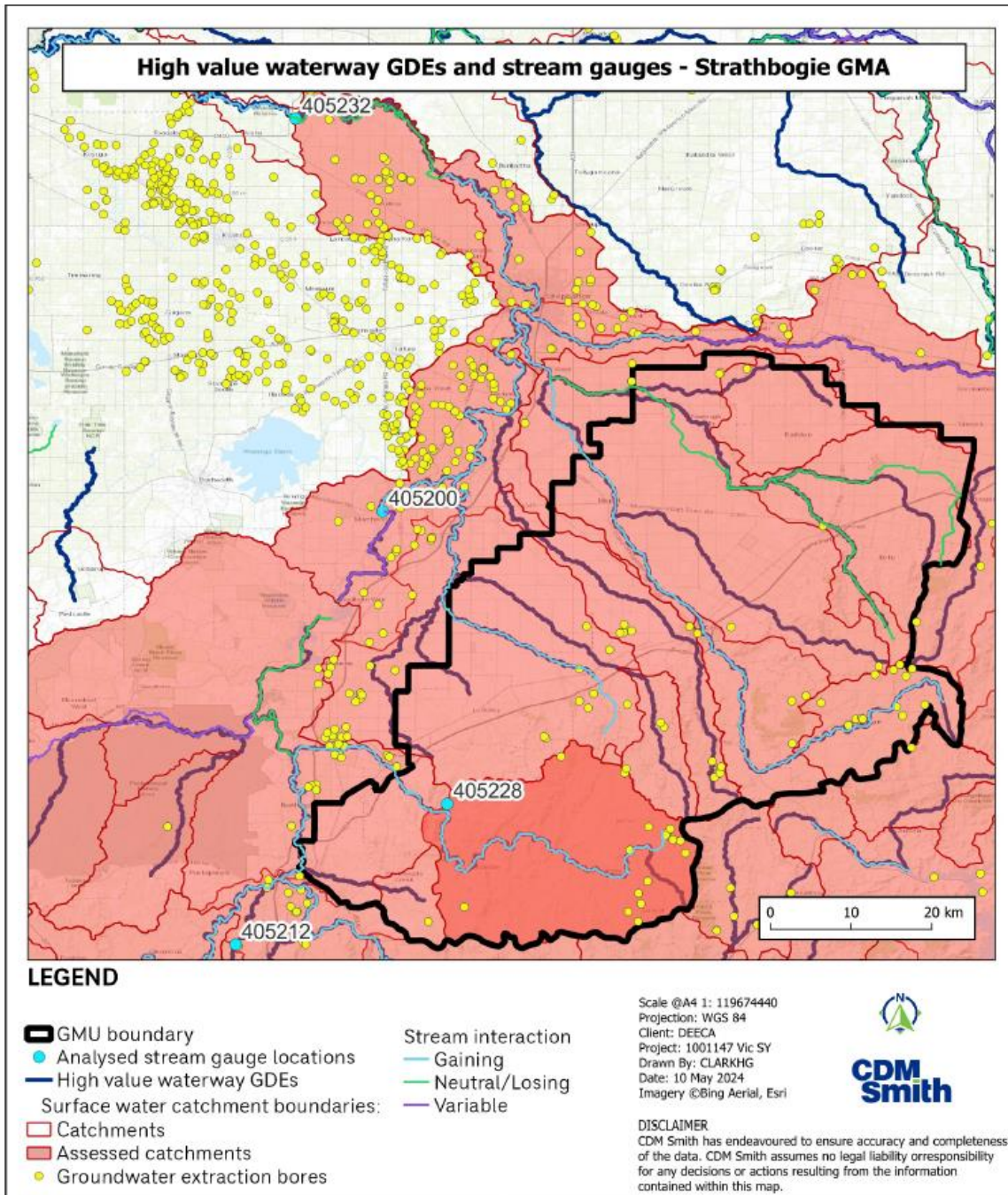


Figure LL-29 Waterway GDEs, stream gauges and catchment boundaries for the Strathbogie GMA.

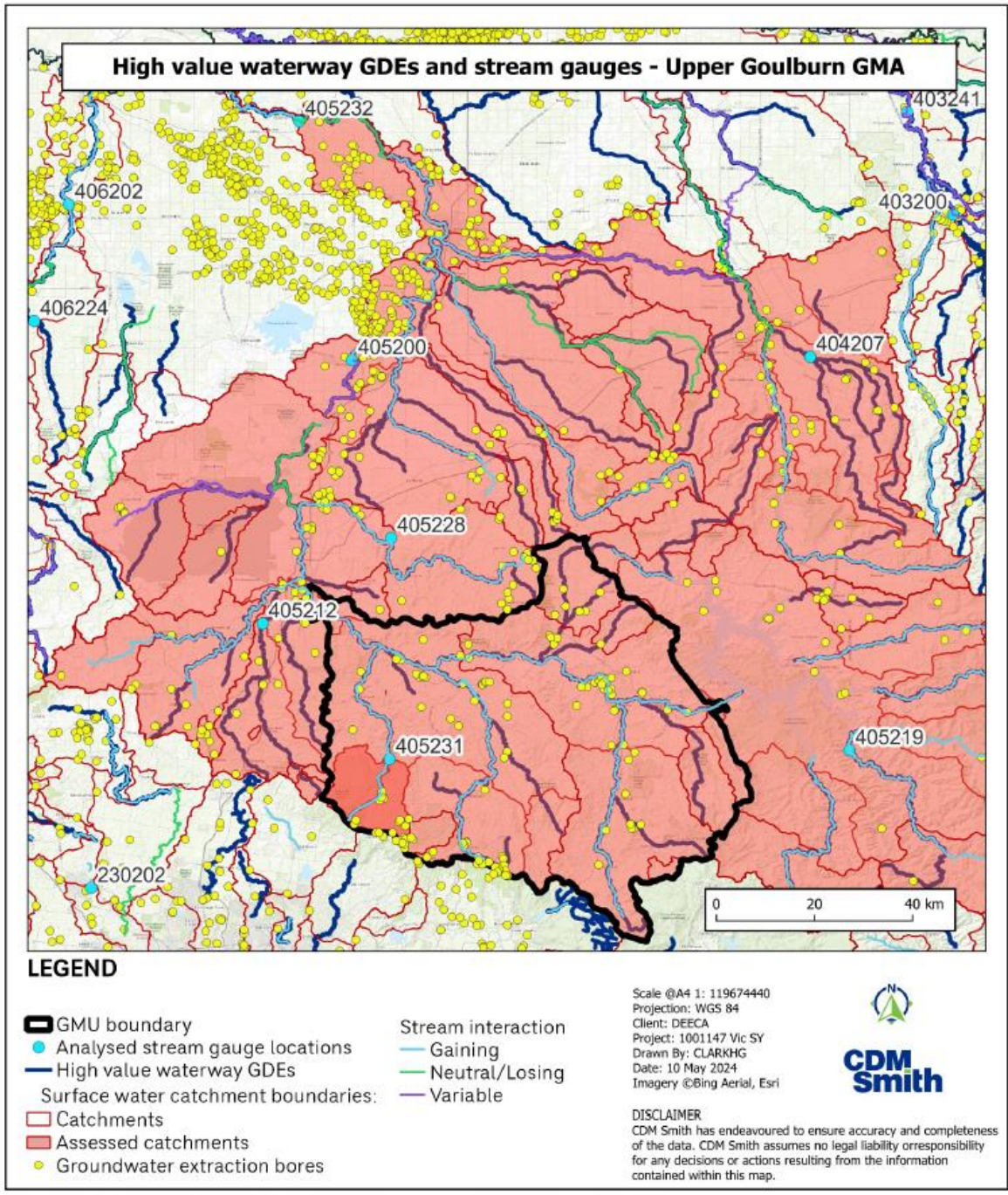


Figure LL-30 Waterway GDEs, stream gauges and catchment boundaries for the Upper Goulburn GMA.

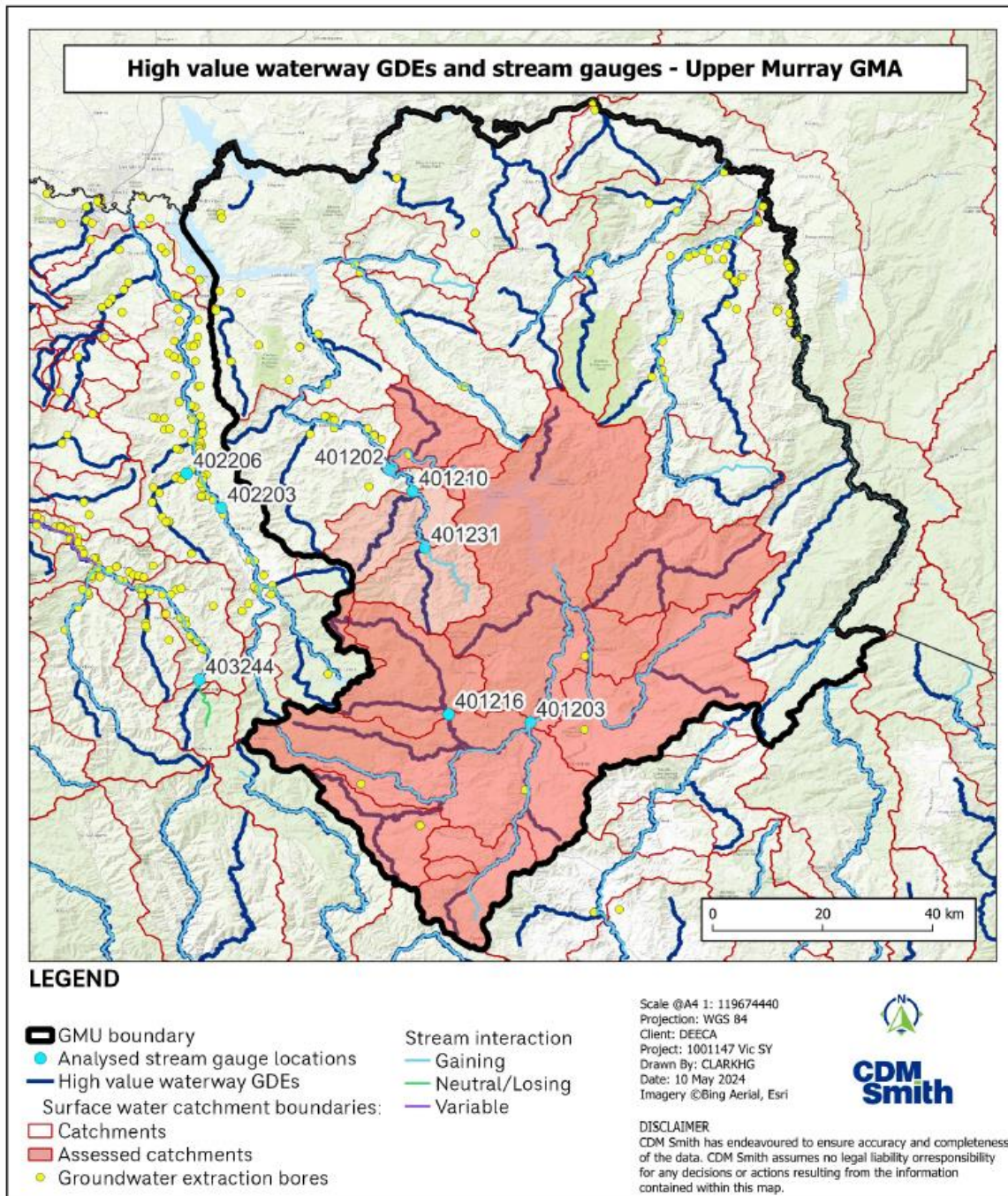


Figure LL-31 Waterway GDEs, stream gauges and catchment boundaries for the Upper Murray GMA.

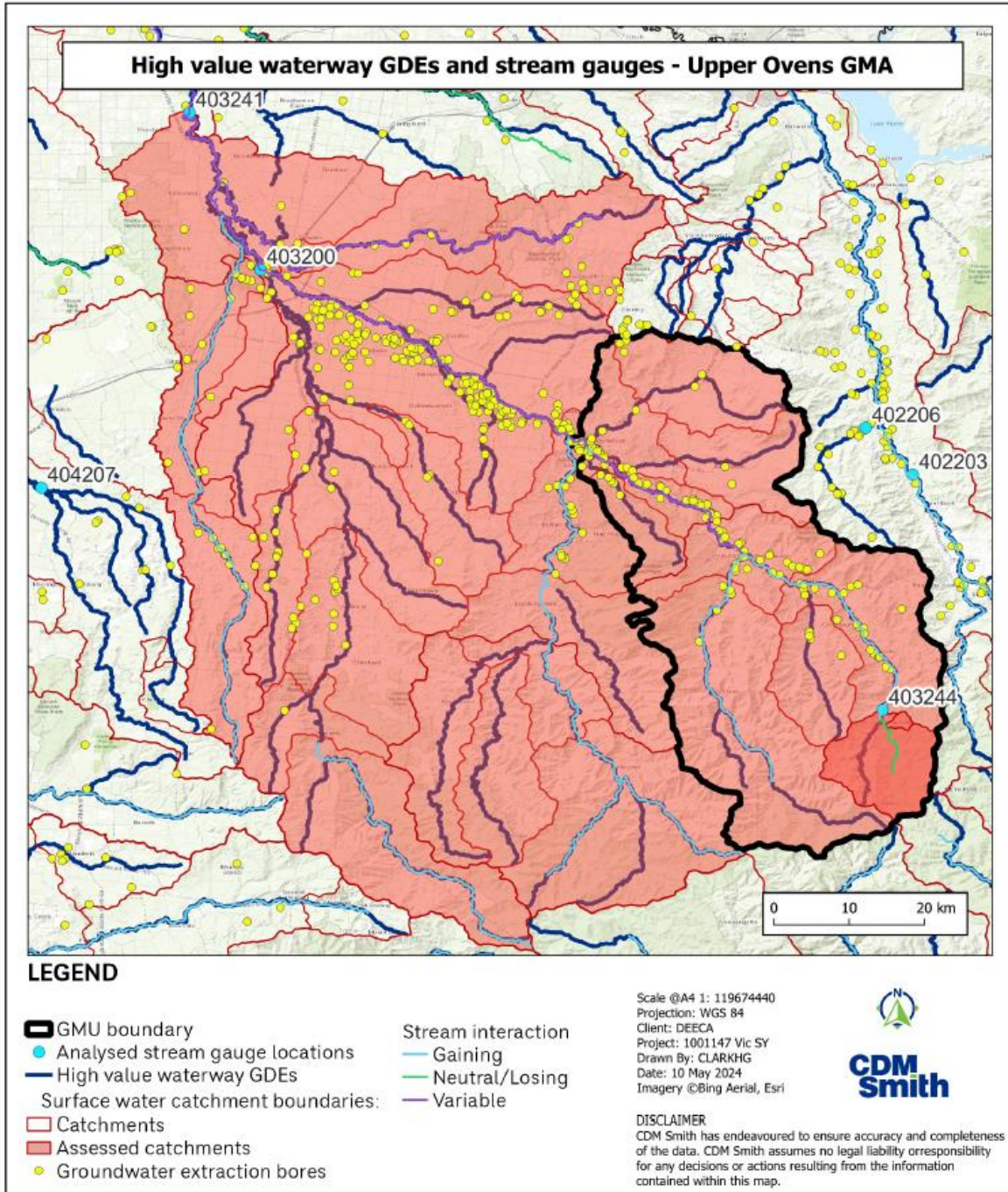


Figure LL-32 Waterway GDEs, stream gauges and catchment boundaries for the Upper Ovens GMA.

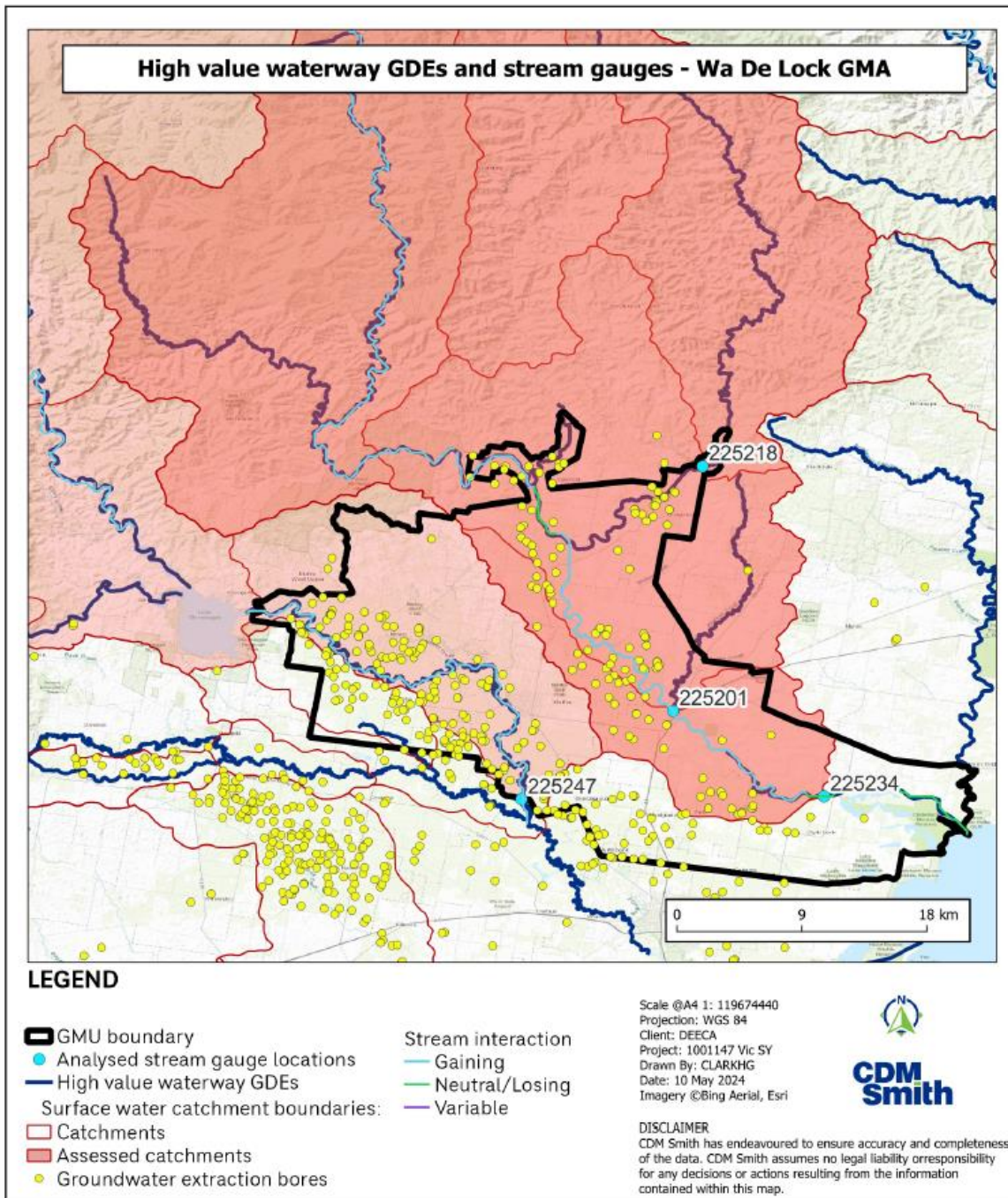


Figure LL-33 Waterway GDEs, stream gauges and catchment boundaries for the Wa De Lock GMA.

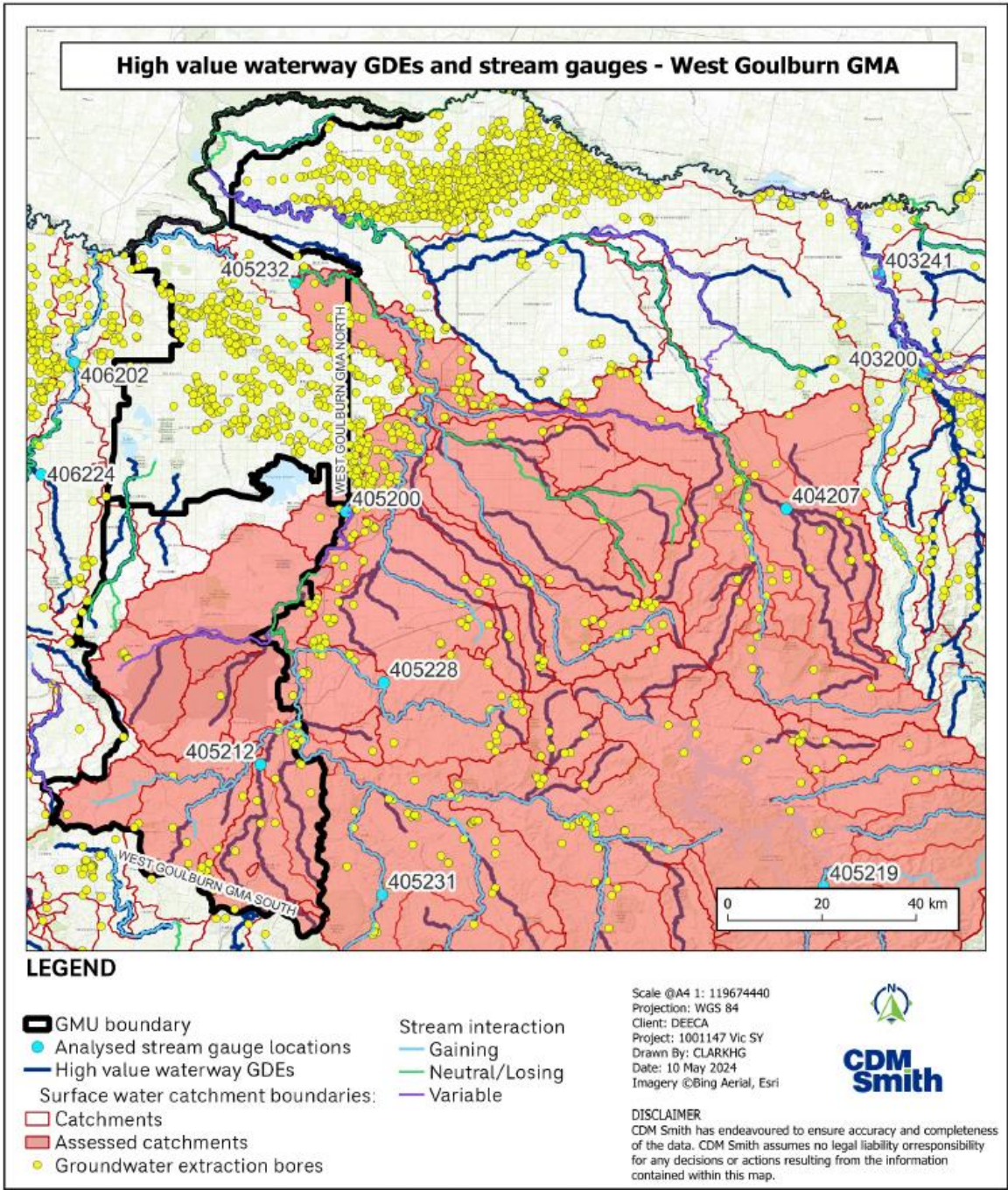


Figure LL-34 Waterway GDEs, stream gauges and catchment boundaries for the West Goulburn GMA.

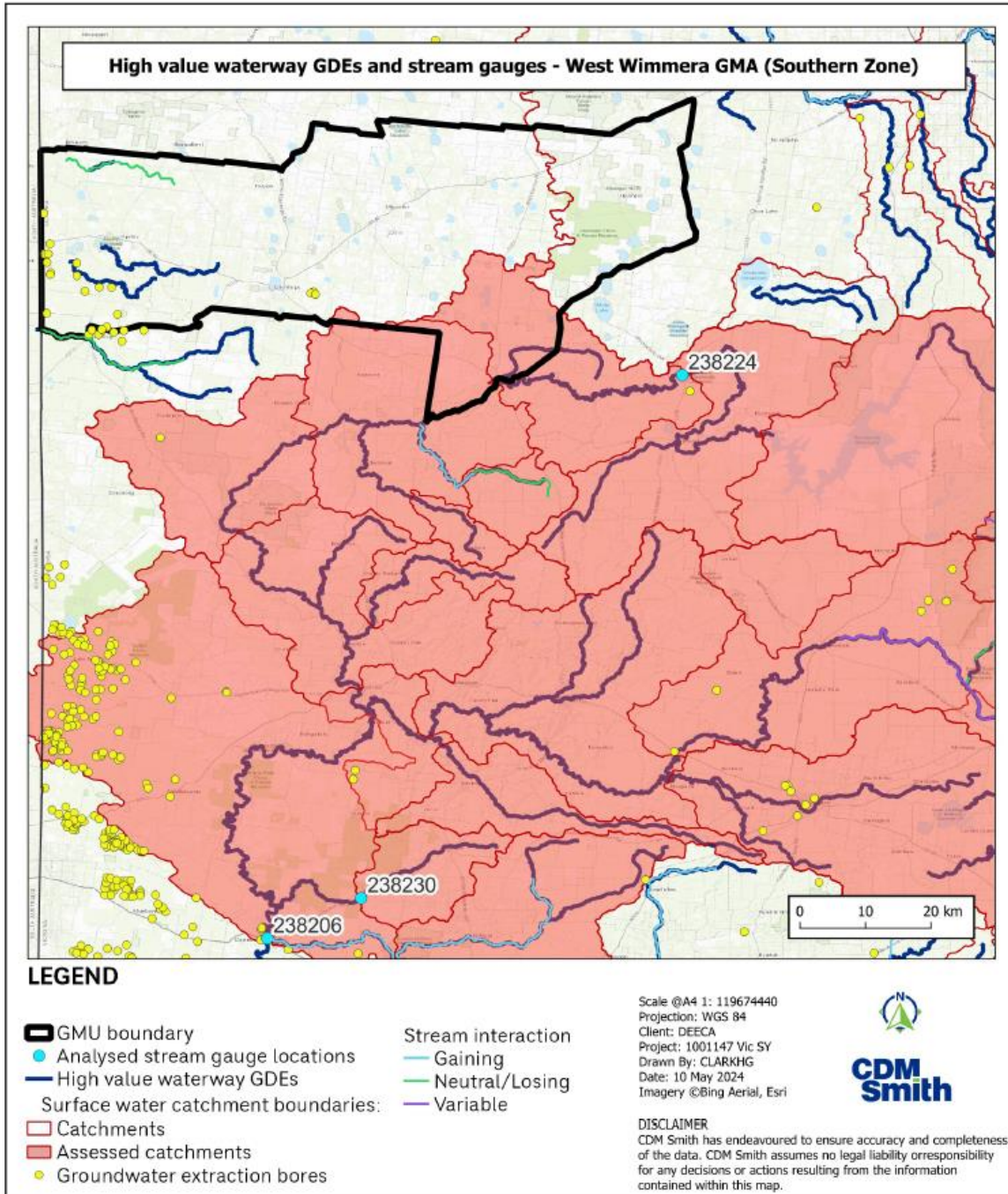


Figure LL-35 Waterway GDEs, stream gauges and catchment boundaries for the West Wimmera GMA (Southern Zone).

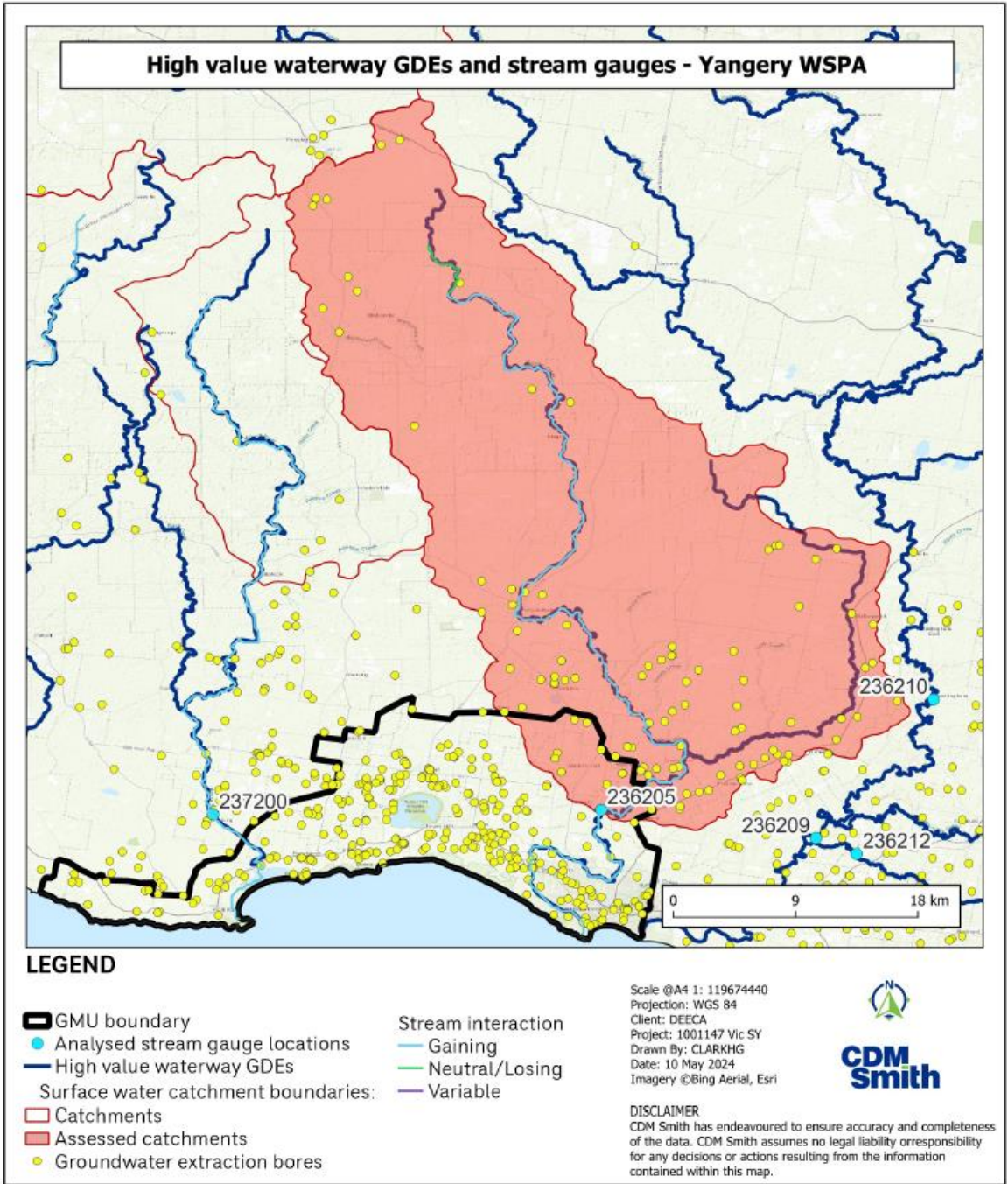


Figure LL-36 Waterway GDEs, stream gauges and catchment boundaries for the Yangery WSPA.

CDM SMITH AUSTRALIA

1/30 Wangaratta Street
Richmond VIC 3121
australia@cdmsmith.com

Review of Groundwater Sustainable Yield: Unconfined and Semi-confined Aquifers



APPENDICES PART 4 (MM to OO) | 11 August 2025

Appendices

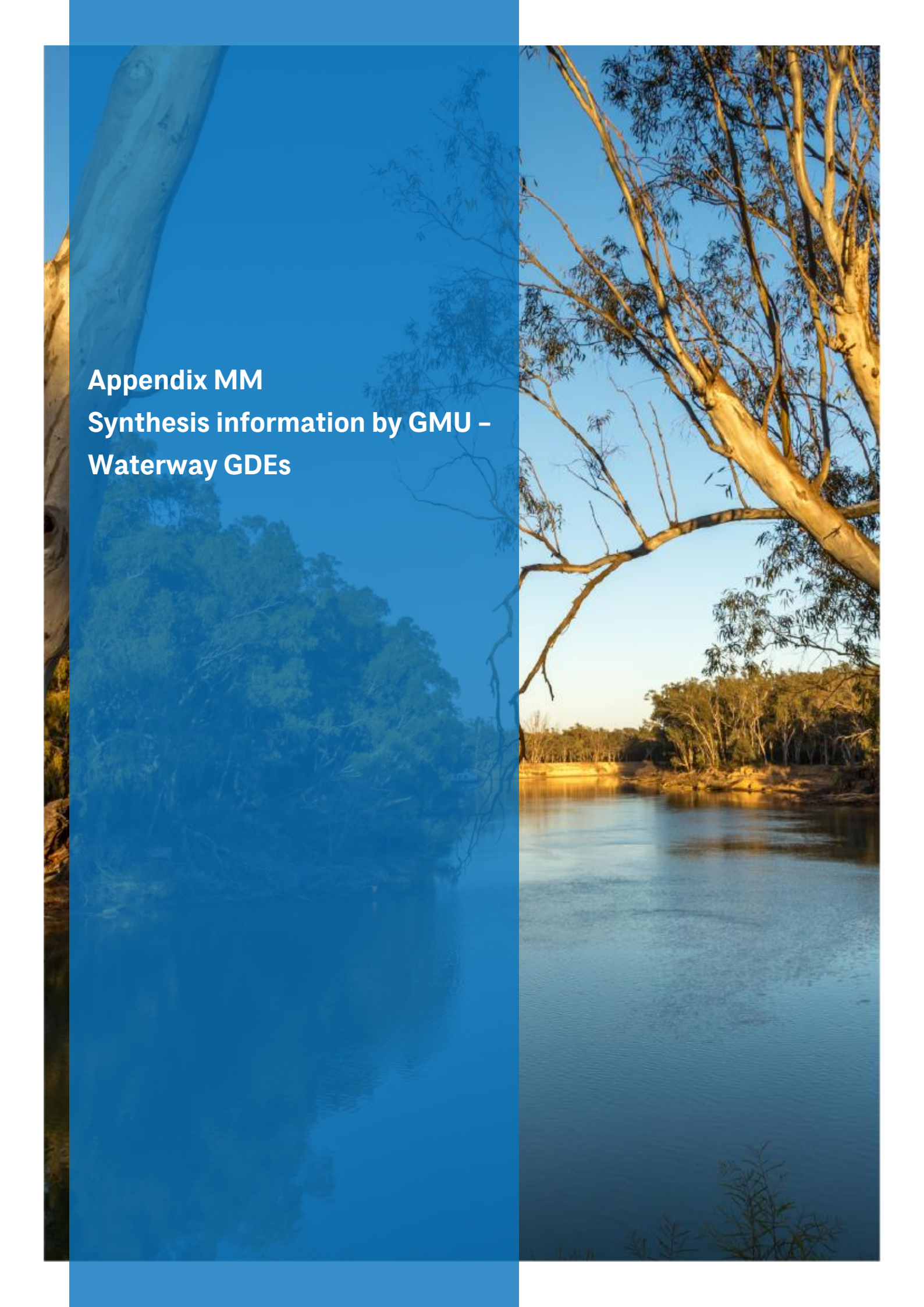
PREPARED FOR:

Department of Energy, Environment
and Climate Action

Melbourne, VIC

**CDM
Smith**
listen. think. deliver.

Appendix MM Synthesis information by GMU – Waterway GDEs..... 3
Appendix NN Summary of change in groundwater elevation for GMUs - Waterway GDEs 136
Appendix OO Use-drawdown relationships for Waterway GDEs 146



Appendix MM
Synthesis information by GMU –
Waterway GDEs

Table MM-1 Synthesis information – Waterway GDEs- Barnawartha GMU

Assessment area	GMU		BARNAWARTHA GMA			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.2 (-1.1 to 2.8)
		7 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.5
					MCC (LCC - HCC)	1.5 (-0.9 to 5.2)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.4 (-0.3 to 2.8)
		375 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.0
					MCC (LCC - HCC)	2.8 (-0.2 to 5.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	46
					MCC (LCC - HCC)	37 (3,679 to 20)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	29
					MCC (LCC - HCC)	18 (167 to 11)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	464
					MCC (LCC - HCC)	372 (36,786 to 203)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	289
					MCC (LCC - HCC)	184 (1,665 to 107)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	927
					MCC (LCC - HCC)	744 (73,572 to 406)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	578
					MCC (LCC - HCC)	368 (3,330 to 214)
				Proportion of recharge (%)	No CC	NA
		Stream gauge/Catchment:		No assessed gauge in catchment		

Table MM-2 Synthesis information – Waterway GDEs- Broken GMU

Assessment area	GMU				BROKEN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.7
					MCC (LCC - HCC)	1.3 (-0.5 to 2.4)
		654 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.2
					MCC (LCC - HCC)	1.2 (-0.1 to 4.7)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.3 (0.4 to 2.2)
		3,389 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.4
					MCC (LCC - HCC)	2.5 (0.4 to 4.4)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	555
					MCC (LCC - HCC)	349 (875 to 220)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.06% (0.12% to 0.05%)
			2041-2065	Volume (ML/yr)	No CC	174
					MCC (LCC - HCC)	193 (713 to 112)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.04% (0.12% to 0.04%)
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,549
					MCC (LCC - HCC)	3,494 (8,745 to 2,203)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.6% (1.2% to 0.5%)	
			2041-2065	Volume (ML/yr)	No CC	1,743
					MCC (LCC - HCC)	1,934 (7,127 to 1,123)
		Proportion of recharge (%)		No CC	NA	

		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	0.44% (1.19% to 0.42%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,097
			MCC (LCC - HCC)	6,988 (17,490 to 4,407)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	1.2% (2.5% to 1.0%)	
	2041-2065	Volume (ML/yr)	No CC	3,486
			MCC (LCC - HCC)	3,868 (14,254 to 2,246)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	0.9% (2.4% to 0.8%)		
Stream gauge/Catchment:		404207 - Holland Creek @ Kelfeera		
Base flow index (1975-2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	62,177 (81,663 to 44,137)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-13,268 (6,219 to -31,308)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	57,288 (74,433 to 34,428)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-18,156 (-1,011 to -41,017)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.05% (0.04% to 0.07%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.22% (0.17% to 0.32%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.05% (0.04% to 0.09%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.24% (0.19% to 0.40%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	1.0 (1.3 to 0.7)
		Change from 1975-	MCC (LCC - HCC)	-3.2 (-2.9 to -3.5)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	0.9 (1.2 to 0.5)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3.3 (-3.0 to -3.7)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	3,033% (2,309% to 4,273%)
			PCV use (ML/yr)	MCC (LCC - HCC)	14,255% (10,854% to 20,082%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	3,292% (2,533% to 5,477%)
			PCV use (ML/yr)	MCC (LCC - HCC)	15,472% (11,908% to 25,745%)

Table MM-3 Synthesis information – Waterway GDEs- Bungaree GMU

Assessment area	GMU				BUNGAREE GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.3 (-0.5 to 0.9)
		2,037 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.0
					MCC (LCC - HCC)	0 (-0.2 to 1.8)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	3.3
					MCC (LCC - HCC)	4.6 (2.1 to 6.9)
		4,234 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.9
					MCC (LCC - HCC)	6 (0.1 to 11.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	198
					MCC (LCC - HCC)	147 (302 to 99)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.35% (0.57% to 0.29%)
			2041-2065	Volume (ML/yr)	No CC	143
					MCC (LCC - HCC)	112 (1,068 to 59)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.35% (2.39% to 0.28%)
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,976
					MCC (LCC - HCC)	1,471 (3,018 to 989)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	3.5% (5.7% to 2.9%)
			2041-2065	Volume (ML/yr)	No CC	1,430
					MCC (LCC - HCC)	1,125 (10,678 to 591)
					No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	4% (24% to 3%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,952
			MCC (LCC - HCC)	2,942 (6,037 to 1,978)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	7% (11% to 6%)	
	2041-2065	Volume (ML/yr)	No CC	2,861
			MCC (LCC - HCC)	2,250 (21,356 to 1,182)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	7% (48% to 6%)		
Stream gauge/Catchment:		232236 - West Moorabool River U/S Moorabool Reservoir		
Base flow index (1975-2020)		0.61		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	875 (1,080 to 662)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-76 (128 to -289)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	787 (1,004 to 517)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-165 (52 to -434)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	3.4% (2.7% to 4.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	6.3% (5.1% to 8.3%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	3.7% (2.9% to 5.7%)
		PCV use (ML/yr)	MCC (LCC - HCC)	7.0% (5.5% to 10.6%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.07 (0.09 to 0.06)
		Change from 1975-	MCC (LCC - HCC)	-0.01 (0.01 to -0.02)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	0.07 (0.08 to 0.04)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-0.01 (0.00 to -0.04)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	39,905% (32,346% to 52,748%)
		PCV use (ML/yr)	MCC (LCC - HCC)	74,557% (60,434% to 98,552%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	44,392% (34,799% to 67,486%)
		PCV use (ML/yr)	MCC (LCC - HCC)	82,941% (65,017% to 126,089%)
Stream gauge/Catchment:		232243 - Whisky Creek At Whisky Creek Diversion Weir		
Base flow index (1975- 2020)		0.62		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	534 (659 to 404)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-46 (78 to -177)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	480 (613 to 316)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-100 (32 to -265)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	39% (32% to 52%)
		PCV use (ML/yr)	MCC (LCC - HCC)	62% (50% to 82%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	44% (34% to 66%)
		PCV use (ML/yr)	MCC (LCC - HCC)	69% (54% to 104%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.9 (1.1 to 0.6)
		Change from 1975-	MCC (LCC - HCC)	-0.1 (0.1 to -0.3)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	0.8 (1.0 to 0.5)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.2 (0.1 to -0.4)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	24,606% (19,945% to 32,526%)
			PCV use (ML/yr)	MCC (LCC - HCC)	38,727% (31,391% to 51,191%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	27,373% (21,458% to 41,614%)
			PCV use (ML/yr)	MCC (LCC - HCC)	43,082% (33,772% to 65,494%)

Table MM-4 Synthesis information – Waterway GDEs- Cardigan GMU

Assessment area	GMU				CARDIGAN GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 537 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.1	
					MCC (LCC - HCC)	0.8 (-0.1 to 1.2)	
			2041-2065	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.3 (0.2 to 2.2)	
			PCV use 2,742 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.4
						MCC (LCC - HCC)	4.8 (2.1 to 7)
		2041-2065		Drawdown from baseline (m)	No CC	3.0	
					MCC (LCC - HCC)	6.3 (0.4 to 11.4)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	123	
					MCC (LCC - HCC)	88 (185 to 62)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.22% (0.37% to 0.18%)	
			2041-2065	Volume (ML/yr)	No CC	95	
					MCC (LCC - HCC)	70 (621 to 39)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.24% (1.49% to 0.15%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,232	
					MCC (LCC - HCC)	875 (1,846 to 619)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	2.2% (3.7% to 1.8%)	
			2041-2065	Volume (ML/yr)	No CC	952	
					MCC (LCC - HCC)	695 (6,211 to 387)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	2.4% (14.9% to 1.5%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,465
			MCC (LCC - HCC)	1,750 (3,692 to 1,237)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	4.4% (7.4% to 3.5%)	
	2041-2065	Volume (ML/yr)	No CC	1,904
			MCC (LCC - HCC)	1,391 (12,421 to 773)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	5% (30% to 3%)		
Stream gauge/Catchment:		236215 - Burrumbeet Creek @ Lake Burrumbeet		
Base flow index (1975-2020)		0.44		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	8,709 (11,502 to 6,437)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1,301 (1,492 to -3,574)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	7,158 (9,490 to 4,024)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-2,853 (-521 to -5,986)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	3.9% (3.0% to 5.3%)
		PCV use (ML/yr)	MCC (LCC - HCC)	31% (23% to 42%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	4.8% (3.6% to 8.5%)
		PCV use (ML/yr)	MCC (LCC - HCC)	38% (28% to 67%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	2.9 (3.8 to 2.1)
		Change from 1975-	MCC (LCC - HCC)	-0.4 (0.5 to -1.2)

			2020 (ML/yr)		
		2065	Flow (ML/yr)	MCC (LCC - HCC)	2.4 (3.1 to 1.3)
			Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-0.9 (-0.2 to -2.0)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	11,942% (9,042% to 16,158%)
			PCV use (ML/yr)	MCC (LCC - HCC)	93,683% (70,935% to 126,756%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	14,531% (10,960% to 25,845%)
			PCV use (ML/yr)	MCC (LCC - HCC)	113,992% (85,975% to 202,747%)

Table MM-5 Synthesis information – Waterway GDEs- Central Victorian Mineral Springs GMU

Assessment area	GMU CENTRAL VICTORIAN MINERAL SPRINGS GMA					
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.4
					MCC (LCC - HCC)	1.5 (-1.7 to 2.4)
		1,369 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.6 (-1.2 to 5.8)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	3.1 (0.7 to 4.2)
		4,092 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.2
					MCC (LCC - HCC)	5.3 (-0.1 to 8.9)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	313
					MCC (LCC - HCC)	179 (669 to 139)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	127
					MCC (LCC - HCC)	109 (986 to 67)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,125
					MCC (LCC - HCC)	1,789 (6,691 to 1,391)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,272
					MCC (LCC - HCC)	1,095 (9,861 to 665)
						No CC

		Proportion of recharge (%)	MCC (LCC - HCC)	0.32% (2.3% to 0.41%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,251
			MCC (LCC - HCC)	3,578 (13,383 to 2,782)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	0.7% (2.5% to 0.9%)
	2041-2065	Volume (ML/yr)	No CC	2,544
			MCC (LCC - HCC)	2,189 (19,721 to 1,331)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	0.6% (4.5% to 0.8%)		
Stream gauge/Catchment:		406213 - Campaspe River @ Redesdale		
Base flow index (1975-2020)		0.36		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	53,054 (66,846 to 38,051)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,441 (6,352 to -22,443)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	47,972 (61,099 to 26,013)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-12,522 (605 to -34,482)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.4% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.79% (1.42% to 2.49%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.61% (0.48% to 1.12%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.98% (1.55% to 3.65%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.41 (0.51 to 0.29)
		Change from 1975-	MCC (LCC - HCC)	-0.06 (0.05 to -0.17)

			2020 (ML/yr)		
			2065	Flow (ML/yr)	MCC (LCC - HCC)
	Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)		-0.10 (0.00 to -0.26)	
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	71,806% (56,990% to 100,118%)
			PCV use (ML/yr)	MCC (LCC - HCC)	233,110% (185,011% to 325,019%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	79,413% (62,351% to 146,451%)
			PCV use (ML/yr)	MCC (LCC - HCC)	257,802% (202,413% to 475,435%)

Table MM-6 Synthesis information – Waterway GDEs- Colongulac GMU

Assessment area	GMU				COLONGULAC GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use 484 ML/yr	2021-2040	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	No waterway GDEs present in GMU
			2041-2065	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	
		PCV use 1,718 ML/yr	2021-2040	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	
			2041-2065	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
			2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
			2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)	
					No CC	

		Proportion of recharge (%)	MCC (LCC - HCC)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)		
		Proportion of recharge (%)	No CC MCC (LCC - HCC)		
	2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)		
		Proportion of recharge (%)	No CC MCC (LCC - HCC)		
	Stream gauge/Catchment:		235203 - Curdies River @ Curdie		
	Base flow index (1975-2020)		0.34		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	77,921 (89,508 to 62,723)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-6,046 (5,542 to -21,243)	
	2065	Flow (ML/yr)	MCC (LCC - HCC)	70,700 (80,020 to 48,784)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-13,267 (-3,946 to -35,182)	
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.64% (0.56% to 0.80%)	
		PCV use (ML/yr)	MCC (LCC - HCC)	1.98% (1.72% to 2.46%)	
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.71% (0.62% to 1.02%)	
		PCV use (ML/yr)	MCC (LCC - HCC)	2.18% (1.93% to 3.16%)	
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	2.4 (2.7 to 1.9)	
		Change from 1975-	MCC (LCC - HCC)	-0.18 (0.17 to -0.65)	

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	2.1 (2.4 to 1.5)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.40 (-0.12 to -1.1)
		Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)
	PCV use (ML/yr)			MCC (LCC - HCC)	65,102% (56,674% to 80,876%)
	2065		Current use (ML/yr)	MCC (LCC - HCC)	23,262% (20,552% to 33,712%)
			PCV use (ML/yr)	MCC (LCC - HCC)	71,751% (63,394% to 103,984%)

Table MM-7 Synthesis information – Waterway GDEs- Denison GMU

Assessment area	GMU				DENISON GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1.2 (0.2 to 1.5)
		5,580 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.2
					MCC (LCC - HCC)	1.2 (0.7 to 2.2)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	1.4
					MCC (LCC - HCC)	1.6 (1 to 2.1)
		9,734 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.9
					MCC (LCC - HCC)	2.3 (1.3 to 3.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	834
					MCC (LCC - HCC)	739 (1,103 to 609)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	498
					MCC (LCC - HCC)	533 (796 to 408)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	8,345
					MCC (LCC - HCC)	7,389 (11,030 to 6,086)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	4,977
					MCC (LCC - HCC)	5,325 (7,959 to 4,083)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	16,690	
				MCC (LCC - HCC)	14,779 (22,061 to 12,171)	
			Proportion of recharge (%)	No CC	NA	

				Proportion of recharge (%)	MCC (LCC - HCC)	48% (60% to 47%)
				2041-2065	Volume (ML/yr)	No CC
			MCC (LCC - HCC)			10,650 (15,917 to 8,165)
			Proportion of recharge (%)		No CC	NA
					MCC (LCC - HCC)	45% (52% to 47%)
			Stream gauge/Catchment:			No assessed gauge in catchment

Table MM-8 Synthesis information – Waterway GDEs- Deutgam GMU

Assessment area	GMU				DEUTGAM WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.5 (-0.3 to 1)
		708 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.6 (0.1 to 2)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	2.3 (1.1 to 3.3)
		4,274 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.8
					MCC (LCC - HCC)	4 (1.7 to 6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	312
					MCC (LCC - HCC)	247 (424 to 181)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	142
					MCC (LCC - HCC)	136 (240 to 97)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,124
					MCC (LCC - HCC)	2,468 (4,236 to 1,808)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,423
					MCC (LCC - HCC)	1,361 (2,402 to 970)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,248
					MCC (LCC - HCC)	4,936 (8,472 to 3,615)
						No CC

		Proportion of recharge (%)	MCC (LCC - HCC)	33% (45% to 29%)
	2041-2065	Volume (ML/yr)	No CC	2,846
			MCC (LCC - HCC)	2,722 (4,804 to 1,940)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	22% (28% to 21%)
Stream gauge/Catchment:		231204 - Werribee River @ Werribee Diversion Weir		
Base flow index (1975-2020)		0.36		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	56,109 (67,962 to 43,221)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1,625 (10,229 to -14,512)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	49,786 (65,349 to 33,130)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,947 (7,615 to -24,603)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.4% (2.8% to 4.4%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.9% (2.9% to 5.8%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.0 (0.0 to 0.0)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15.5 (-15.5 to -15.5)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	0.0 (0.0 to 0.0)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15.5 (-15.5 to -15.5)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No flow
		PCV use (ML/yr)	MCC (LCC - HCC)	No flow
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No flow

				PCV use (ML/yr)	MCC (LCC - HCC)	No flow
--	--	--	--	--------------------	--------------------	---------

Table MM-9 Synthesis information – Waterway GDEs-Eildon GMU

Assessment area	GMU					EILDON GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-2.7	
					MCC (LCC - HCC)	-2.4 (-4.6 to -1.3)	
		164 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-2.3	
					MCC (LCC - HCC)	-2.3 (-3.4 to 0.2)	
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-2.1	
					MCC (LCC - HCC)	-1.6 (-2.8 to -0.6)	
		501 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.8	
					MCC (LCC - HCC)	0.1 (-1.9 to 1.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to -)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	10	
					MCC (LCC - HCC)	83 (- to 29)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.009% (- to 0.006%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to -)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	101	
					MCC (LCC - HCC)	827 (- to 287)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	0.093% (- to 0.064%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
			MCC (LCC - HCC)	- (- to -)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	- (- to -)
	2041-2065	Volume (ML/yr)	No CC	202
			MCC (LCC - HCC)	1,655 (- to 574)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	0.185% (- to 0.129%)		
Stream gauge/Catchment:		405219 - Goulburn River @ Dohertys		
Base flow index (1975-2020)		0.58		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	262,304 (318,532 to 205,495)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-47,090 (9,139 to -103,898)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	250,131 (293,606 to 168,396)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-59,263 (-15,787 to -140,997)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.03% (0.02% to 0.03%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.06% (0.05% to 0.08%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.03% (0.02% to 0.04%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.06% (0.05% to 0.10%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	58 (71 to 46)
		Change from 1975-	MCC (LCC - HCC)	-7.2 (5.3 to -20)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	56 (65 to 37)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-9.9 (-0.2 to -28)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	118% (97% to 150%)
		PCV use (ML/yr)	MCC (LCC - HCC)	274% (226% to 350%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	123% (105% to 183%)
		PCV use (ML/yr)	MCC (LCC - HCC)	287% (245% to 427%)
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975- 2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to - 330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.62% (0.51% to 0.79%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.03% (2.50% to 3.87%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.65% (0.55% to 0.96%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.18% (2.71% to 4.72%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)
		Change from 1975-	MCC (LCC - HCC)	-38 (40 to -116)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,753% (1,444% to 2,238%)
			PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)
			PCV use (ML/yr)	MCC (LCC - HCC)	9,010% (7,676% to 13,383%)

Table MM-10 Synthesis information – Waterway GDEs-Gellibrand GMU

Assessment area	GMU					GELLIBRAND GMA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	No extraction or waterway GDEs present in GMU
					MCC (LCC - HCC)	
		0 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	
					MCC (LCC - HCC)	
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	
					MCC (LCC - HCC)	
		0 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	
					MCC (LCC - HCC)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC	
			2041-2065	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC	
			2041-2065	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
					No CC	

		Proportion of recharge (%)	MCC (LCC - HCC)	
	2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)	
		Proportion of recharge (%)	No CC MCC (LCC - HCC)	
Stream gauge/Catchment:		235228 - Gellibrand River @ Gellibrand		
Base flow index (1975-2020)		0.52		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	35,086 (40,304 to 28,243)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-2,722 (2,495 to -9,566)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	31,834 (36,031 to 21,967)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-5,974 (-1,777 to -15,842)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	8 (9 to 6)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.6 (0.56 to -2.2)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	7 (8 to 5)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.3 (-0.40 to -3.6)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction

				PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
--	--	--	--	--------------------	--------------------	---------------

Table MM-11 Synthesis information – Waterway GDEs-Gerangamete GMU

Assessment area	GMU				GERANGAMETE GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	-0.7 (-0.8 to 0.7)
		0 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (-0.3 to 2.6)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	4.1
					MCC (LCC - HCC)	3.9 (3.1 to 5.9)
		11 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	10.5
					MCC (LCC - HCC)	11 (9.4 to 13.3)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	0.0
					MCC (LCC - HCC)	0.0 (0.0 to 0.0)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	0.0
					MCC (LCC - HCC)	0.0 (0.0 to 0.0)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2.0
					MCC (LCC - HCC)	3.0 (3.0 to 2.0)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1.0
					MCC (LCC - HCC)	1.0 (1.0 to 1.0)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	5.0	
				MCC (LCC - HCC)	5.0 (6.0 to 4.0)	
			No CC	NA		

		Proportion of recharge (%)	MCC (LCC - HCC)	0.005% (0.006% to 0.005%)
	2041-2065	Volume (ML/yr)	No CC	2.0
			MCC (LCC - HCC)	2.0 (2.0 to 2.0)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	0.003% (0.002% to 0.004%)
Stream gauge/Catchment:		233224 - Barwon River @ Ricketts Marsh		
Base flow index (1975-2020)		0.36		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	62,626 (77,432 to 44,618)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-8,423 (6,383 to -26,431)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	52,288 (66,160 to 34,948)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-18,761 (-4,889 to -36,101)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	4.2 (5.2 to 3.0)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.1 (-0.1 to -2.4)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	3.5 (4.5 to 2.4)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.8 (-0.9 to -3.0)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction

Table MM-12 Synthesis information – Waterway GDEs-Glenelg GMU

Assessment area	GMU				GLENELG WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-1.5
					MCC (LCC - HCC)	-1.3 (-1.5 to -0.9)
		6,068 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-1.2
					MCC (LCC - HCC)	-1.2 (-1.5 to -0.1)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-1.0
					MCC (LCC - HCC)	-0.8 (-1.1 to -0.5)
		23,625 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.6 (0 to 1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	- (- to -)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	2,948
					MCC (LCC - HCC)	2,571 (4,466 to 2,021)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	1.8% (2.1% to 1.9%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	- (- to -)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	29,480
					MCC (LCC - HCC)	25,709 (44,663 to 20,212)
		No CC	NA			

		Proportion of recharge (%)	MCC (LCC - HCC)	18% (21% to 19%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
			MCC (LCC - HCC)	- (- to -)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	- (- to -)
	2041-2065	Volume (ML/yr)	No CC	58,959
			MCC (LCC - HCC)	51,418 (89,327 to 40,425)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	37% (41% to 37%)		
Stream gauge/Catchment:		238206 - Glenelg River @ Dartmoor		
Base flow index (1975-2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	355,715 (442,997 to 258,140)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55,992 (31,290 to -153,567)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	282,431 (397,709 to 161,389)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-129,276 (-13,998 to -250,318)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.2% (1.0% to 1.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5.5% (4.4% to 7.6%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.5% (1.1% to 2.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	7.0% (4.9% to 12.2%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	36 (45 to 26)
		Change from 1975-	MCC (LCC - HCC)	-5.7 (3.2 to -16)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	29 (40 to 16)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-13 (-1 to -25)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	11,708% (9,402% to 16,134%)
		PCV use (ML/yr)	MCC (LCC - HCC)	54,734% (43,950% to 75,422%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	14,746% (10,472% to 25,806%)
		PCV use (ML/yr)	MCC (LCC - HCC)	68,936% (48,954% to 120,637%)
Stream gauge/Catchment:		238233 - Moleside Creek @ Kentbruck		
Base flow index (1975- 2020)		0.69		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	7,762 (9,667 to 5,633)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-1,222 (683 to -3,351)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	6,163 (8,679 to 3,522)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-2,821 (-305 to -5,462)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	7.1 (8.9 to 5.2)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.1 (0.6 to -3.1)
			Flow (ML/yr)	MCC (LCC - HCC)	5.7 (8.0 to 3.2)
		2065	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-2.6 (-0.3 to -5.0)
			Current use (ML/yr)	MCC (LCC - HCC)	No extraction
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
			Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
			PCV use (ML/yr)	MCC (LCC - HCC)	No extraction

Table MM-13 Synthesis information – Waterway GDEs-Glenormiston GMU

Assessment area	GMU				GLENORMISTON GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use 1,253 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	No waterway GDEs present in GMU
					MCC (LCC - HCC)	
			2041-2065	Drawdown from baseline (m)	No CC	
				MCC (LCC - HCC)		
		PCV use 2,399 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	
				MCC (LCC - HCC)		
			2041-2065	Drawdown from baseline (m)	No CC	
				MCC (LCC - HCC)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
					MCC (LCC - HCC)	
			Proportion of recharge (%)	No CC		
				MCC (LCC - HCC)		
		2041-2065	Volume (ML/yr)	No CC		
				MCC (LCC - HCC)		
			Proportion of recharge (%)	No CC		
				MCC (LCC - HCC)		
Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC			
			MCC (LCC - HCC)			
	Proportion of recharge (%)	No CC				
		MCC (LCC - HCC)				
2041-2065	Volume (ML/yr)	No CC				
		MCC (LCC - HCC)				
	Proportion of recharge (%)	No CC				
		MCC (LCC - HCC)				

		Proportion of recharge (%)	MCC (LCC - HCC)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	
			MCC (LCC - HCC)	
	Proportion of recharge (%)	No CC		
		MCC (LCC - HCC)		
	2041-2065	Volume (ML/yr)	No CC	
			MCC (LCC - HCC)	
Proportion of recharge (%)	No CC			
	MCC (LCC - HCC)			
Stream gauge/Catchment:		236210 - Hopkins River @ Framlingham		
Base flow index (1975-2020)		0.4		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	88,543 (116,937 to 65,440)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-13,231 (15,164 to -36,333)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	72,768 (96,481 to 40,913)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-29,005 (-5,292 to -60,860)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.3% (0.2% to 0.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.5% (1.1% to 2.0%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.3% (0.3% to 0.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.8% (1.4% to 3.2%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	1.3 (1.7 to 0.95)
		Change from 1975-	MCC (LCC - HCC)	-0.2 (0.2 to -0.5)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	1.1 (1.4 to 0.6)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-0.4 (-0.1 to -0.9)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	19,487% (14,755% to 26,367%)
		PCV use (ML/yr)	MCC (LCC - HCC)	101,927% (77,177% to 137,911%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	23,712% (17,884% to 42,174%)
		PCV use (ML/yr)	MCC (LCC - HCC)	124,023% (93,541% to 220,589%)
Stream gauge/Catchment:		236216 - Mount Emu Creek @ Taroon (Ayrford Road Bridge)		
Base flow index (1975- 2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	62,625 (82,709 to 46,285)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-9,358 (10,725 to -25,698)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	51,468 (68,240 to 28,937)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-20,515 (-3,743 to -43,046)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	2.4% (1.8% to 3.3%)
		PCV use (ML/yr)	MCC (LCC - HCC)	9.9% (7.5% to 13.4%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	2.9% (2.2% to 5.2%)
		PCV use (ML/yr)	MCC (LCC - HCC)	12.0% (9.1% to 21.4%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.7 (1.0 to 0.5)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.11 (0.12 to -0.30)	
			2065	Flow (ML/yr)	MCC (LCC - HCC)	0.6 (0.8 to 0.3)
				Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.24 (-0.04 to -0.50)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	209,553% (158,669% to 283,532%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	856,510% (648,533% to 1,158,887%)	
		2065	Current use (ML/yr)	MCC (LCC - HCC)	254,981% (192,311% to 453,510%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	1,042,188% (786,038% to 1,853,642%)	

Table MM-14 Synthesis information – Waterway GDEs-Hawkesdale GMU

Assessment area	GMU				HAWKESDALE GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	4,790 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.0
						MCC (LCC - HCC)	0.4 (-0.4 to 0.7)
		4,790 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.2	
					MCC (LCC - HCC)	0.2 (0 to 1.2)	
		PCV use	11,192 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
						MCC (LCC - HCC)	1 (0 to 1.6)
		11,192 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.1	
					MCC (LCC - HCC)	1.9 (0.7 to 2.7)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,722	
					MCC (LCC - HCC)	1,510 (8,845 to 998)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.5% (2.5% to 0.4%)	
				2041-2065	Volume (ML/yr)	No CC	1,062
						MCC (LCC - HCC)	804 (1,661 to 584)
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.3% (0.5% to 0.3%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	27,223	
					MCC (LCC - HCC)	15,099 (88,449 to 9,985)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	5% (25% to 4%)	
				2041-2065	Volume (ML/yr)	No CC	10,622
						MCC (LCC - HCC)	8,043 (16,613 to 5,841)
					No CC	NA	

		Proportion of recharge (%)	MCC (LCC - HCC)	3% (5% to 3%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	54,447
			MCC (LCC - HCC)	30,198 (176,898 to 19,970)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	10% (50% to 8%)
	2041-2065	Volume (ML/yr)	No CC	21,244
			MCC (LCC - HCC)	16,087 (33,226 to 11,683)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	6% (10% to 6%)		
Stream gauge/Catchment:		237200 - Moyne River @ Toolong		
Base flow index (1975-2020)		0.33		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	34,953 (45,258 to 25,078)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-4,232 (6,074 to -14,107)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	27,273 (38,127 to 17,712)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-11,912 (-1,058 to -21,473)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	3.6% (2.8% to 5.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	10.6% (8.2% to 14.8%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	4.6% (3.3% to 7.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	13.6% (9.7% to 21.0%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	3.3 (4.2 to 2.3)
		Change from 1975-	MCC (LCC - HCC)	-0.4 (0.57 to -1.3)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	2.5 (3.6 to 1.7)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-1.1 (-0.10 to -2.0)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	38,291% (29,572% to 53,368%)
		PCV use (ML/yr)	MCC (LCC - HCC)	113,838% (87,916% to 158,661%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	49,074% (35,104% to 75,566%)
		PCV use (ML/yr)	MCC (LCC - HCC)	145,895% (104,361% to 224,653%)
Stream gauge/Catchment:		237206 - Eumeralla River @ Codrington		
Base flow index (1975- 2020)		0.49		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	24,435 (31,639 to 17,532)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-2,959 (4,246 to -9,862)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	19,066 (26,654 to 12,382)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-8,328 (-740 to -15,012)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.0% (0.8% to 1.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.5% (1.2% to 2.1%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.3% (0.9% to 2.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.9% (1.4% to 3.0%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	5.7 (7.3 to 4.1)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.7 (1.0 to -2.3)	
			2065	Flow (ML/yr)	MCC (LCC - HCC)	4.4 (6.2 to 2.9)
			2065	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.9 (-0.2 to -3.5)
			Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)
	PCV use (ML/yr)	MCC (LCC - HCC)			6,459% (4,988% to 9,002%)	
	2065	Current use (ML/yr)		MCC (LCC - HCC)	5,537% (3,961% to 8,527%)	
		PCV use (ML/yr)		MCC (LCC - HCC)	8,278% (5,921% to 12,746%)	

Table MM-15 Synthesis information – Waterway GDEs-Heywood GMU

Assessment area	GMU				HEYWOOD GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.4
					MCC (LCC - HCC)	-0.4 (-0.5 to -0.2)
		2,320 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.4
					MCC (LCC - HCC)	-0.4 (-0.5 to 0)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.3 (0.1 to 0.7)
		7,137 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.1 (0.7 to 1.4)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,318
					MCC (LCC - HCC)	1,923 (3,486 to 1,216)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	1.6% (2.4% to 1.4%)	
			2041-2065	Volume (ML/yr)	No CC	1,183
					MCC (LCC - HCC)	699 (891 to 578)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.8% (0.8% to 1.0%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	23,183
					MCC (LCC - HCC)	19,226 (34,863 to 12,158)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	16% (24% to 14%)	
			2041-2065	Volume (ML/yr)	No CC	11,829
					MCC (LCC - HCC)	6,995 (8,912 to 5,781)
		No CC	NA			

		Proportion of recharge (%)	MCC (LCC - HCC)	8% (8% to 10%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	46,365
			MCC (LCC - HCC)	38,451 (69,727 to 24,316)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	32% (49% to 27%)
	2041-2065	Volume (ML/yr)	No CC	23,658
			MCC (LCC - HCC)	13,990 (17,825 to 11,562)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	15% (15% to 21%)		
Stream gauge/Catchment:		237202 - Fitzroy River @ Heywood		
Base flow index (1975-2020)		0.41		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	21,171 (27,413 to 15,190)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-4,510 (1,733 to -10,491)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	16,519 (23,094 to 10,728)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-9,162 (-2,587 to -14,953)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.8% (0.6% to 1.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	6.3% (4.9% to 8.8%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.0% (0.7% to 1.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	8.1% (5.8% to 12.5%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	1.2 (1.6 to 0.9)
		Change from 1975-	MCC (LCC - HCC)	-0.15 (0.21 to -0.49)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	1.0 (1.3 to 0.6)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-0.4 (-0.04 to -0.8)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	13,915% (10,746% to 19,393%)
		PCV use (ML/yr)	MCC (LCC - HCC)	109,750% (84,759% to 152,964%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	17,833% (12,756% to 27,460%)
		PCV use (ML/yr)	MCC (LCC - HCC)	140,657% (100,614% to 216,586%)
Stream gauge/Catchment:		237207 - Surry River @ Heathmere		
Base flow index (1975- 2020)		0.40		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	23,438 (30,348 to 16,816)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-2,838 (4,073 to -9,459)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	18,288 (25,566 to 11,877)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-7,988 (-709 to -14,399)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.7%)
		PCV use (ML/yr)	MCC (LCC - HCC)	8.3% (6.4% to 11.6%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.7% (0.5% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	10.6% (7.6% to 16.4%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	1.4 (1.8 to 1.0)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.17 (0.24 to -0.55)	
			2065	Flow (ML/yr)	MCC (LCC - HCC)	1.1 (1.5 to 0.7)
			2065	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.47 (-0.04 to -0.84)
			Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)
	PCV use (ML/yr)	MCC (LCC - HCC)			142,424% (109,993% to 198,503%)	
	2065	Current use (ML/yr)		MCC (LCC - HCC)	11,576% (8,280% to 17,825%)	
		PCV use (ML/yr)		MCC (LCC - HCC)	182,531% (130,567% to 281,066%)	

Table MM-16 Synthesis information – Waterway GDEs-Jan Juc GMU

Assessment area	GMU					JAN JUC GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.5
					MCC (LCC - HCC)	-0.6 (-1.1 to 0.6)
		370 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (-0.3 to 2.5)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	5.3
					MCC (LCC - HCC)	5.4 (4.4 to 7)
		4,250 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	13.6
					MCC (LCC - HCC)	14.2 (12.7 to 16)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	75
					MCC (LCC - HCC)	74 (83 to 64)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	30
					MCC (LCC - HCC)	31 (33 to 29)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	753
					MCC (LCC - HCC)	744 (834 to 641)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	298
					MCC (LCC - HCC)	306 (331 to 285)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	298	
				MCC (LCC - HCC)	306 (331 to 285)	
			Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,507
MCC (LCC - HCC)	1,489 (1,668 to 1,282)					
			No CC	NA		

		Proportion of recharge (%)	MCC (LCC - HCC)	6.6% (6.6% to 6.9%)
	2041-2065	Volume (ML/yr)	No CC	595
			MCC (LCC - HCC)	612 (661 to 571)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	3.6% (3.2% to 5.1%)
Stream gauge/Catchment:		235232 - Painkalac Creek @ Painkalac Creek Dam		
Base flow index (1975-2020)		0.30		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	3,841 (4,412 to 3,092)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-298 (273 to -1,047)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	3,485 (3,945 to 2,405)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-654 (-195 to -1,734)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.15 (0.17 to 0.12)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.01 (0.01 to -0.04)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	0.13 (0.15 to 0.09)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.03 (-0.01 to -0.07)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction

Table MM-17 Synthesis information – Waterway GDEs-Kiewa GMU

Assessment area	GMU				KIEWA GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	0.3 (-2.7 to 1.5)
		666 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.1 (-1.7 to 3.4)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.6 (-1.1 to 1.6)
		2,864 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.8
					MCC (LCC - HCC)	1.7 (-0.9 to 3.7)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,148
					MCC (LCC - HCC)	478 (- to 229)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	123
					MCC (LCC - HCC)	200 (- to 106)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,485
					MCC (LCC - HCC)	4,782 (- to 2,288)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,226
					MCC (LCC - HCC)	2,004 (- to 1,058)
				Proportion of recharge (%)	No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	0.25% (- to 0.19%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	22,970	
			MCC (LCC - HCC)	9,564 (- to 4,576)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	1.0% (- to 0.6%)	
	2041-2065	Volume (ML/yr)	No CC	2,452	
			MCC (LCC - HCC)	4,008 (- to 2,115)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	0.50% (- to 0.39%)	
Stream gauge/Catchment:		402203 - Kiewa River @ Mongans Bridge			
Base flow index (1975-2020)		0.66			
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	400,022 (489,356 to 341,493)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-67,503 (21,831 to -126,032)	
	2065	Flow (ML/yr)	MCC (LCC - HCC)	386,820 (446,670 to 266,682)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-80,705 (-20,855 to -200,843)	
	Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.1% (0.1% to 0.1%)
			PCV use (ML/yr)	MCC (LCC - HCC)	0.2% (0.2% to 0.2%)
2065		Current use (ML/yr)	MCC (LCC - HCC)	0.1% (0.1% to 0.1%)	
		PCV use (ML/yr)	MCC (LCC - HCC)	0.2% (0.2% to 0.3%)	
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	191 (234 to 163)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-21 (22 to -49)	

	2065	Flow (ML/yr)	MCC (LCC - HCC)	185 (214 to 128)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-27 (1 to -85)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	148% (121% to 173%)
		PCV use (ML/yr)	MCC (LCC - HCC)	438% (358% to 513%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	153% (132% to 222%)
		PCV use (ML/yr)	MCC (LCC - HCC)	453% (392% to 656%)
Stream gauge/Catchment:		402206 - Running Creek @ Running Creek		
Base flow index (1975-2020)		0.65		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	25,323 (30,978 to 21,618)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-2,535 (3,120 to -6,240)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	24,487 (28,276 to 16,882)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3,371 (418 to -10,976)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.7% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	2.3% (1.9% to 2.7%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.7% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	2.4% (2.1% to 3.5%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	8.4 (10.3 to 7.2)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.8 (1.0 to -2.1)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	8.1 (9.4 to 5.6)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1.1 (0.1 to -3.7)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	2,010% (1,643% to 2,354%)
			PCV use (ML/yr)	MCC (LCC - HCC)	7,002% (5,724% to 8,202%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	2,078% (1,800% to 3,014%)
			PCV use (ML/yr)	MCC (LCC - HCC)	7,241% (6,271% to 10,503%)

Table MM-18 Synthesis information – Waterway GDEs-Koo Wee Rup GMU

Assessment area	GMU				KOO WEE RUP WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.7 (0.3 to 2.6)
		3,483 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.7
					MCC (LCC - HCC)	1.7 (0.9 to 4.4)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.3
					MCC (LCC - HCC)	3.3 (1.4 to 4.7)
		11,497 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.5
					MCC (LCC - HCC)	5.2 (2.2 to 7.8)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	620
					MCC (LCC - HCC)	467 (895 to 346)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	421
					MCC (LCC - HCC)	298 (563 to 209)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,201
					MCC (LCC - HCC)	4,667 (8,947 to 3,457)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	4,206
					MCC (LCC - HCC)	2,983 (5,632 to 2,089)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	4,206	
				MCC (LCC - HCC)	2,983 (5,632 to 2,089)	
			Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,402
MCC (LCC - HCC)	9,334 (17,895 to 6,914)					
				No CC	NA	

		Proportion of recharge (%)	MCC (LCC - HCC)	3.0% (4.8% to 2.7%)
	2041-2065	Volume (ML/yr)	No CC	8,412
			MCC (LCC - HCC)	5,967 (11,263 to 4,178)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	2.2% (3.3% to 2.4%)
Stream gauge/Catchment:		228213 - Bunyip River @ Iona		
Base flow index (1975-2020)		0.57		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	90,438 (115,903 to 70,212)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15,431 (10,034 to -35,657)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	84,779 (106,367 to 55,541)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-21,090 (497 to -50,328)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.04% (0.03% to 0.05%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.45% (0.35% to 0.58%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.04% (0.03% to 0.07%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.48% (0.38% to 0.73%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	46 (58 to 35)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7 (5 to -18)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	43 (54 to 28)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-10 (1 to -25)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	81% (63% to 104%)
		PCV use (ML/yr)	MCC (LCC - HCC)	893% (697% to 1,150%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	86% (69% to 132%)
		PCV use (ML/yr)	MCC (LCC - HCC)	952% (759% to 1,454%)

Table MM-19 Synthesis information – Waterway GDEs-Lancefield GMU

Assessment area	GMU				LANCEFIELD GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1.9 (-0.8 to 2.4)
		206 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1 (-0.4 to 4.3)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.2
					MCC (LCC - HCC)	3.5 (1.2 to 4.6)
		968 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	4.4 (-0.4 to 7.7)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	68
					MCC (LCC - HCC)	43 (131 to 34)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	50
					MCC (LCC - HCC)	35 (- to 20)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	683
					MCC (LCC - HCC)	430 (1,312 to 336)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	495
					MCC (LCC - HCC)	350 (- to 200)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,366
					MCC (LCC - HCC)	861 (2,625 to 673)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	990
MCC (LCC - HCC)	700 (- to 401)					
Proportion of recharge (%)	No CC			NA		
			MCC (LCC - HCC)	17% (- to 16%)		

Table MM-20 Synthesis information – Waterway GDEs-Leongatha GMU

Assessment area	GMU					LEONGATHA GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use 121 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-1.6
					MCC (LCC - HCC)	-1.2 (-2.1 to -0.5)
		2041-2065	Drawdown from baseline (m)	No CC	-0.8	
				MCC (LCC - HCC)	-0.8 (-1.4 to 0.9)	
		PCV use 1,409 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.6
					MCC (LCC - HCC)	0.2 (-1.2 to 1.1)
		2041-2065	Drawdown from baseline (m)	No CC	1.6	
				MCC (LCC - HCC)	2.6 (1 to 3.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	521
					MCC (LCC - HCC)	188 (- to 113)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	41
					MCC (LCC - HCC)	54 (86 to 44)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,207
					MCC (LCC - HCC)	1,880 (- to 1,126)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	412
					MCC (LCC - HCC)	536 (860 to 441)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	412	
				MCC (LCC - HCC)	536 (860 to 441)	
			Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	10,414
MCC (LCC - HCC)	3,760 (- to 2,251)					
			No CC	NA		

		Proportion of recharge (%)	MCC (LCC - HCC)	6.5% (- to 4.6%)
	2041-2065	Volume (ML/yr)	No CC	825
			MCC (LCC - HCC)	1,072 (1,720 to 882)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	2.2% (2.7% to 2.5%)
Stream gauge/Catchment:		227266 - Tarwin River @ Koonwarra		
Base flow index (1975-2020)		0.51		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	107,006 (132,148 to 80,528)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-14,454 (10,689 to -40,932)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	100,933 (123,403 to 67,046)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-20,527 (1,943 to -54,414)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.13% (0.10% to 0.17%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.68% (0.55% to 0.90%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.13% (0.11% to 0.20%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.72% (0.59% to 1.09%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	25 (31 to 19)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3.4 (2.5 to -9.7)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	24 (29 to 16)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-4.8 (0.5 to -13)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	534% (433% to 710%)
		PCV use (ML/yr)	MCC (LCC - HCC)	2,884% (2,335% to 3,832%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	566% (463% to 853%)

				PCV use (ML/yr)	MCC (LCC - HCC)	3,058% (2,501% to 4,603%)
--	--	--	--	--------------------	--------------------	------------------------------

Table MM-21 Synthesis information – Waterway GDEs-Loddon Highlands GMU

Assessment area	GMU				LODDON HIGHLANDS WSPA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 4,954 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.0	
					MCC (LCC - HCC)	0.5 (-0.8 to 1.5)	
		2041-2065	Drawdown from baseline (m)	No CC	0.2		
				MCC (LCC - HCC)	0.2 (-0.6 to 3.8)		
		PCV use 14,559 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.0	
					MCC (LCC - HCC)	4.2 (1.9 to 6.2)	
		2041-2065	Drawdown from baseline (m)	No CC	3.4		
				MCC (LCC - HCC)	6.4 (0.9 to 11.5)		
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	668	
					MCC (LCC - HCC)	494 (961 to 350)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.19% (0.26% to 0.16%)	
			2041-2065	Volume (ML/yr)	No CC	490	
					MCC (LCC - HCC)	319 (1,204 to 188)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.17% (0.42% to 0.15%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,682	
					MCC (LCC - HCC)	4,941 (9,613 to 3,502)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.9% (2.6% to 1.6%)	
			2041-2065	Volume (ML/yr)	No CC	4,905	
					MCC (LCC - HCC)	3,190 (12,042 to 1,885)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	1.7% (4.2% to 1.5%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	13,364
			MCC (LCC - HCC)	9,881 (19,227 to 7,005)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	3.7% (5.3% to 3.2%)
	2041-2065	Volume (ML/yr)	No CC	9,809
			MCC (LCC - HCC)	6,380 (24,083 to 3,770)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	3.3% (8.4% to 3.0%)		
Stream gauge/Catchment:		407203 - Loddon River @ Laanecoorie		
Base flow index (1975-2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	138,216 (167,770 to 94,632)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-26,275 (3,279 to -69,859)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	122,992 (159,561 to 63,287)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-41,500 (-4,930 to -101,204)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	6.1% (5.0% to 8.9%)
		PCV use (ML/yr)	MCC (LCC - HCC)	14.4% (11.9% to 21.1%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	6.9% (5.3% to 13.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	16.2% (12.5% to 31.5%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	16 (20 to 11)
		Change from 1975-	MCC (LCC - HCC)	-2.5 (0.9 to -7.6)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	14 (19 to 7)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-4.3 (0.0 to -11.3)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	52,257% (43,052% to 76,326%)
			PCV use (ML/yr)	MCC (LCC - HCC)	123,193% (101,492% to 179,932%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	58,726% (45,267% to 114,128%)
			PCV use (ML/yr)	MCC (LCC - HCC)	138,443% (106,714% to 269,050%)

Table MM-22 Synthesis information – Waterway GDEs-Lower Campaspe GMU

Assessment area	GMU					LOWER CAMPASPE VALLEY WSPA		
	Representative Suite/bore							
	Aquifer							
	Water system depth boundary (m below natural surface)							
Catchment	Permissible Consumptive Volume (ML/yr)							
	Licensed Entitlement (ML/yr)							
	Licensed avg use (ML/yr)							
Environmental metric	Waterway GDEs	Avg Use 34,733 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.3		
					MCC (LCC - HCC)	5.5 (1.3 to 6.5)		
			2041-2065	Drawdown from baseline (m)	No CC	4.6		
					MCC (LCC - HCC)	4.6 (2.4 to 10.6)		
			PCV use 63,411 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	4.7	
						MCC (LCC - HCC)	5.9 (3.8 to 7)	
		2041-2065	Drawdown from baseline (m)	No CC	5.2			
				MCC (LCC - HCC)	7.8 (2.9 to 11.4)			
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,733		
					MCC (LCC - HCC)	1,410 (2,185 to 1,221)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	1.0% (1.2% to 1.1%)		
			2041-2065	Volume (ML/yr)	No CC	1,354		
					MCC (LCC - HCC)	1,114 (2,328 to 762)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	1.1% (1.5% to 1.2%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	17,327		
					MCC (LCC - HCC)	14,095 (21,849 to 12,210)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	10% (12% to 11%)		
			2041-2065	Volume (ML/yr)	No CC	13,541		
					MCC (LCC - HCC)	11,142 (23,275 to 7,617)		
						No CC	NA	
								NA

		Proportion of recharge (%)	MCC (LCC - HCC)	11% (15% to 12%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	34,654
			MCC (LCC - HCC)	28,190 (43,698 to 24,421)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	20% (23% to 23%)
	2041-2065	Volume (ML/yr)	No CC	27,081
			MCC (LCC - HCC)	22,285 (46,550 to 15,234)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	22% (30% to 24%)		
Stream gauge/Catchment:		406202 - Campaspe River @ Rochester D/S Waranga Western Ch Syphn		
Base flow index (1975-2020)		0.36		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	101,065 (127,340 to 72,486)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-37,318 (-11,043 to -65,897)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	91,385 (116,392 to 49,553)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-46,998 (-21,991 to -88,830)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	5.0% (3.9% to 6.9%)
		PCV use (ML/yr)	MCC (LCC - HCC)	9.0% (7.1% to 12.5%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	5.5% (4.3% to 10.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	9.9% (7.8% to 18.3%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	5.5 (6.9 to 3.9)
		Change from 1975-	MCC (LCC - HCC)	-0.8 (0.7 to -2.3)

			2020 (ML/yr)		
			2065	Flow (ML/yr)	MCC (LCC - HCC)
	Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)		-1.3 (0.1 to -3.6)	
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	91,636% (72,728% to 127,765%)
			PCV use (ML/yr)	MCC (LCC - HCC)	164,940% (130,907% to 229,972%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	101,342% (79,569% to 186,894%)
			PCV use (ML/yr)	MCC (LCC - HCC)	182,411% (143,220% to 336,400%)

Table MM-23 Synthesis information – Waterway GDEs-Lower Ovens GMU

Assessment area	GMU				LOWER OVENS GMA		
		Representative Suite/bore					
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 4,933 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.7	
					MCC (LCC - HCC)	-0.3 (-2.5 to 0.8)	
			2041-2065	Drawdown from baseline (m)	No CC	-0.3	
					MCC (LCC - HCC)	-0.3 (-1.8 to 2.8)	
			PCV use 16,120 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.6
						MCC (LCC - HCC)	-0.2 (-1.3 to 0.8)
		2041-2065		Drawdown from baseline (m)	No CC	0.2	
					MCC (LCC - HCC)	1 (-1.1 to 2.8)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	26,293 (- to 2,332)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.8% (- to 0.2%)	
			2041-2065	Volume (ML/yr)	No CC	656	
					MCC (LCC - HCC)	1,714 (- to 738)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.15% (- to 0.10%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	262,928 (- to 23,324)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	18% (- to 2%)	
			2041-2065	Volume (ML/yr)	No CC	6,559	
					MCC (LCC - HCC)	17,142 (- to 7,384)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	1.5% (- to 1.0%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
			MCC (LCC - HCC)	525,855 (- to 46,647)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	37% (- to 4%)
	2041-2065	Volume (ML/yr)	No CC	13,117
			MCC (LCC - HCC)	34,284 (- to 14,768)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	3.0% (- to 2.0%)		
Stream gauge/Catchment:		403241 - Ovens River @ Peechelba		
Base flow index (1975-2020)		0.59		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,024,472 (1,282,887 to 880,908)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-124,039 (134,376 to -267,603)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	968,195 (1,162,293 to 644,315)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-180,316 (13,782 to -504,196)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.4% (0.3% to 0.5%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.5% (1.2% to 1.8%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.7%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.6% (1.4% to 2.4%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	203 (255 to 175)
		Change from 1975-	MCC (LCC - HCC)	-25 (27 to -53)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	192 (231 to 128)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-36 (3 to -100)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	2,156% (1,721% to 2,507%)
			PCV use (ML/yr)	MCC (LCC - HCC)	7,764% (6,200% to 9,029%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	2,281% (1,900% to 3,427%)
			PCV use (ML/yr)	MCC (LCC - HCC)	8,215% (6,843% to 12,345%)

Table MM-24 Synthesis information – Waterway GDEs-Merrimu GMU

Assessment area	GMU					MERRIMU GMA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	No waterway GDEs present in GMU
			74 ML/yr	2041-2065	Drawdown from baseline (m)	
		PCV use	2021-2040	Drawdown from baseline (m)	No CC MCC (LCC - HCC)	
			203 ML/yr	2041-2065	Drawdown from baseline (m)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
			2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
			2041-2065	Volume (ML/yr)	No CC MCC (LCC - HCC)	
				Proportion of recharge (%)	No CC MCC (LCC - HCC)	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC MCC (LCC - HCC)	
					No CC	

		Proportion of recharge (%)	MCC (LCC - HCC)	
	2041-2065	Volume (ML/yr)	No CC	
			MCC (LCC - HCC)	
	2041-2065	Proportion of recharge (%)	No CC	
			MCC (LCC - HCC)	
Stream gauge/Catchment:		231204 - Werribee River @ Werribee Diversion Weir		
Base flow index (1975-2020)		0.36		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	56,109 (67,962 to 43,221)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1,625 (10,229 to -14,512)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	49,786 (65,349 to 33,130)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,947 (7,615 to -24,603)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.4% (2.8% to 4.4%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.9% (2.9% to 5.8%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.0 (0.0 to 0.0)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15.5 (-15.5 to -15.5)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	0.0 (0.0 to 0.0)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15.5 (-15.5 to -15.5)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No flow
		PCV use (ML/yr)	MCC (LCC - HCC)	No flow
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No flow

				PCV use (ML/yr)	MCC (LCC - HCC)	No flow
--	--	--	--	--------------------	--------------------	---------

Table MM-25 Synthesis information – Waterway GDEs-Mid Goulburn GMU

Assessment area	GMU				MID GOULBURN GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	2.6
					MCC (LCC - HCC)	3.3 (0.8 to 4.3)
		3,633 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.0
					MCC (LCC - HCC)	3 (1.1 to 7.1)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.9
					MCC (LCC - HCC)	3.5 (2.4 to 4.4)
		26,966 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.6
					MCC (LCC - HCC)	4.8 (2.3 to 7)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,238
					MCC (LCC - HCC)	1,046 (1,485 to 869)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,157
					MCC (LCC - HCC)	765 (1,370 to 550)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,383
					MCC (LCC - HCC)	10,460 (14,848 to 8,694)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	11,573
					MCC (LCC - HCC)	7,654 (13,696 to 5,499)
						No CC

		Proportion of recharge (%)	MCC (LCC - HCC)	6% (8% to 6%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	24,767
			MCC (LCC - HCC)	20,920 (29,696 to 17,388)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	13% (14% to 12%)
	2041-2065	Volume (ML/yr)	No CC	23,146
			MCC (LCC - HCC)	15,309 (27,392 to 10,998)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	12% (15% to 12%)		
Stream gauge/Catchment:		405200 - Goulburn River @ Murchison		
Base flow index (1975-2020)		0.54		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	287,238 (348,812 to 225,030)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1,344,249 (-1,282,675 to -1,406,458)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	273,908 (321,517 to 184,404)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-1,357,579 (-1,309,971 to -1,447,084)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.0% (0.9% to 1.3%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.9% (3.2% to 4.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.1% (0.9% to 1.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	4.1% (3.5% to 6.0%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	205 (249 to 160)
		Change from 1975-	MCC (LCC - HCC)	17 (60 to -28)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	195 (229 to 131)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	7 (41 to -57)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,471% (1,211% to 1,877%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5,429% (4,471% to 6,930%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1,542% (1,314% to 2,291%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5,694% (4,851% to 8,457%)
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975- 2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to -330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.0% (2.5% to 3.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.2% (2.7% to 4.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)

			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-38 (40 to -116)	
			2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
			2065	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
				2040	Current use (ML/yr)	MCC (LCC - HCC)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)	
			2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)
		PCV use (ML/yr)		MCC (LCC - HCC)	9,010% (7,676% to 13,383%)	

Table MM-26 Synthesis information – Waterway GDEs-Mid Loddon GMU

Assessment area	GMU				MID LODDON GMA				
		Representative Suite/bore							
	Aquifer								
	Water system depth boundary (m below natural surface)								
Catchment	Permissible Consumptive Volume (ML/yr)								
	Licensed Entitlement (ML/yr)								
	Licensed avg use (ML/yr)								
Environmental metric	Waterway GDEs	Avg Use	17,771 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.2		
						MCC (LCC - HCC)	4.2 (0.8 to 5.9)		
				2041-2065	Drawdown from baseline (m)	No CC	3.5		
						MCC (LCC - HCC)	3.5 (1.1 to 11.6)		
		PCV use	28,238 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.6		
						MCC (LCC - HCC)	4.7 (2.8 to 6.3)		
				2041-2065	Drawdown from baseline (m)	No CC	4.2		
						MCC (LCC - HCC)	7.4 (1.8 to 12.3)		
		Use at 0.1 metre drawdown		2021-2040		Volume (ML/yr)	No CC	1,059	
								MCC (LCC - HCC)	812 (1,397 to 623)
						Proportion of recharge (%)		No CC	NA
								MCC (LCC - HCC)	0.44% (0.61% to 0.45%)
				2041-2065		Volume (ML/yr)		No CC	859
		Proportion of recharge (%)				No CC	NA		
								MCC (LCC - HCC)	0.40% (0.88% to 0.37%)
		Use at 1 metre drawdown		2021-2040		Volume (ML/yr)	No CC	10,592	
								MCC (LCC - HCC)	8,121 (13,969 to 6,231)
						Proportion of recharge (%)		No CC	NA
								MCC (LCC - HCC)	4.4% (6.1% to 4.5%)
				2041-2065		Volume (ML/yr)		No CC	8,590
						No CC	NA		

		Proportion of recharge (%)	MCC (LCC - HCC)	4.0% (8.8% to 3.7%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	21,184
			MCC (LCC - HCC)	16,243 (27,937 to 12,461)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	9% (12% to 9%)	
	2041-2065	Volume (ML/yr)	No CC	17,180
			MCC (LCC - HCC)	11,244 (34,564 to 6,513)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	8% (18% to 7%)		
Stream gauge/Catchment:		407203 - Loddon River @ Laanecoorie		
Base flow index (1975-2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	138,216 (167,770 to 94,632)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-26,275 (3,279 to -69,859)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	122,992 (159,561 to 63,287)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-41,500 (-4,930 to -101,204)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	6.1% (5.0% to 8.9%)
		PCV use (ML/yr)	MCC (LCC - HCC)	14.4% (11.9% to 21.1%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	6.9% (5.3% to 13.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	16.2% (12.5% to 31.5%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	16 (20 to 11)
		Change from 1975-	MCC (LCC - HCC)	-2.5 (0.9 to -7.6)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	14 (19 to 7)
	Change from 1975-2020 (ML/yr)		MCC (LCC - HCC)	-4.3 (-0.02 to -11.3)	
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	52,257% (43,052% to 76,326%)
			PCV use (ML/yr)	MCC (LCC - HCC)	123,193% (101,492% to 179,932%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	58,726% (45,267% to 114,128%)
			PCV use (ML/yr)	MCC (LCC - HCC)	138,443% (106,714% to 269,050%)

Table MM-27 Synthesis information – Waterway GDEs-Moe GMU

Assessment area	GMU					MOE GMA
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	0.9 (-0.1 to 1.4)
		782 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.0
					MCC (LCC - HCC)	1 (0.5 to 2.5)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.3
					MCC (LCC - HCC)	3 (1.5 to 4.1)
		2,973 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	4.0
					MCC (LCC - HCC)	5.2 (3.1 to 7.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	143
					MCC (LCC - HCC)	118 (185 to 94)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	83
					MCC (LCC - HCC)	69 (99 to 54)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,432
					MCC (LCC - HCC)	1,184 (1,855 to 936)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	826
					MCC (LCC - HCC)	689 (990 to 542)
				Proportion of recharge (%)	No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	0.8% (0.9% to 0.9%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	2,863
			MCC (LCC - HCC)	2,368 (3,710 to 1,872)
	2021-2040	Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	2.4% (3.0% to 2.2%)
	2041-2065	Volume (ML/yr)	No CC	1,651
			MCC (LCC - HCC)	1,378 (1,981 to 1,085)
2041-2065	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	1.7% (1.8% to 1.9%)	
Stream gauge/Catchment:		226204 - Latrobe River @ Willow Grove		
Base flow index (1975-2020)		0.74		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	133,025 (161,924 to 102,338)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-52,809 (-23,910 to -83,495)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	124,683 (149,113 to 87,144)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-61,151 (-36,721 to -98,690)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.001% (0.001% to 0.001%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.03% (0.03% to 0.05%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.001% (0.001% to 0.001%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.04% (0.03% to 0.05%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	142 (173 to 109)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-48 (-17 to -81)

			2065	Flow (ML/yr)	MCC (LCC - HCC)	133 (159 to 93)
				Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-57 (-31 to -97)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.8% (0.7% to 1.0%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	33% (27% to 42%)	
		2065	Current use (ML/yr)	MCC (LCC - HCC)	0.9% (0.7% to 1.2%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	35% (29% to 50%)	

Table MM-28 Synthesis information – Waterway GDEs-Newlingrook GMU

Assessment area	GMU				NEWLINGROOK GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-3.0
					MCC (LCC - HCC)	-4.1 (-3.5 to -2.2)
		29 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-2.3
					MCC (LCC - HCC)	-2.3 (-3.4 to 0.1)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-1.2
					MCC (LCC - HCC)	-2.2 (-2 to -0.3)
		1,922 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.1
					MCC (LCC - HCC)	2.7 (2.2 to 5.1)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	697
					MCC (LCC - HCC)	- (- to 229)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to %)	
			2041-2065	Volume (ML/yr)	No CC	25
					MCC (LCC - HCC)	48 (54 to 36)
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	0.048% (0.039% to 0.053%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	6,967
					MCC (LCC - HCC)	- (- to 2,294)
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to 2.7%)	
			2041-2065	Volume (ML/yr)	No CC	248
					MCC (LCC - HCC)	478 (536 to 364)
		No CC	NA			

		Proportion of recharge (%)	MCC (LCC - HCC)	0.48% (0.39% to 0.53%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	13,934
			MCC (LCC - HCC)	- (- to 4,587)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	- (- to 5.4%)	
	2041-2065	Volume (ML/yr)	No CC	496
			MCC (LCC - HCC)	956 (1,073 to 727)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	1.0% (0.8% to 1.1%)		
Stream gauge/Catchment:		235224 - Gellibrand River @ Burrupa		
Base flow index (1975-2020)		0.56		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	219,214 (251,812 to 176,457)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-27,303 (5,295 to -70,059)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	198,899 (225,119 to 137,245)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-47,618 (-21,398 to -109,272)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.013% (0.012% to 0.017%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.88% (0.76% to 1.09%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.015% (0.013% to 0.021%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.97% (0.85% to 1.40%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	77 (88 to 62)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-10 (1.9 to -24)

			2065	Flow (ML/yr)	MCC (LCC - HCC)	70 (79 to 48)
			2065	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-17 (-7 to -38)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	2040	Current use (ML/yr)	MCC (LCC - HCC)	38% (33% to 48%)
			2040	PCV use (ML/yr)	MCC (LCC - HCC)	2,505% (2,180% to 3,112%)
		2065	2065	Current use (ML/yr)	MCC (LCC - HCC)	42% (37% to 61%)
			2065	PCV use (ML/yr)	MCC (LCC - HCC)	2,761% (2,439% to 4,001%)

Table MM-29 Synthesis information – Waterway GDEs-Northern Zone (West Wimmera) GMU

Assessment area	GMU		NORTHERN ZONE (WEST WIMMERA)				
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 1,369 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.5 (0.4 to 0.8)	
			2041-2065	Drawdown from baseline (m)	No CC	0.6	
					MCC (LCC - HCC)	0.6 (0.6 to 1)	
			PCV use 4,068 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3
						MCC (LCC - HCC)	0.6 (0.3 to 1)
		2041-2065		Drawdown from baseline (m)	No CC	0.7	
					MCC (LCC - HCC)	1 (0.5 to 1.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,686	
					MCC (LCC - HCC)	1,032 (1,975 to 593)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.41% (0.62% to 0.35%)	
			2041-2065	Volume (ML/yr)	No CC	607	
					MCC (LCC - HCC)	603 (1,071 to 402)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.33% (0.41% to 0.37%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	16,865	
					MCC (LCC - HCC)	10,322 (19,746 to 5,927)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	4.1% (6.2% to 3.5%)	
			2041-2065	Volume (ML/yr)	No CC	6,068	
					MCC (LCC - HCC)	6,026 (10,708 to 4,024)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	3.3% (4.1% to 3.7%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	33,730			
			MCC (LCC - HCC)	20,645 (39,492 to 11,854)			
			No CC	NA			

				Proportion of recharge (%)	MCC (LCC - HCC)	8% (12% to 7%)
				2041-2065	Volume (ML/yr)	No CC
			MCC (LCC - HCC)			12,052 (21,415 to 8,048)
			Proportion of recharge (%)		No CC	NA
					MCC (LCC - HCC)	6.6% (8.2% to 7.3%)
			Stream gauge/Catchment:			No assessed gauge in catchment

Table MM-30 Synthesis information – Waterway GDEs-Nullawarre GMU

Assessment area	GMU					NULLAWARRE WSPA		
	Representative Suite/bore							
	Aquifer							
	Water system depth boundary (m below natural surface)							
Catchment	Permissible Consumptive Volume (ML/yr)							
	Licensed Entitlement (ML/yr)							
	Licensed avg use (ML/yr)							
Environmental metric	Waterway GDEs	Avg Use 11,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3		
					MCC (LCC - HCC)	0.1 (-0.6 to 1.2)		
			2041-2065	Drawdown from baseline (m)	No CC	0.3		
					MCC (LCC - HCC)	0.3 (-0.2 to 2.7)		
			PCV use 20,194 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3	
						MCC (LCC - HCC)	0.3 (-0.9 to 1.7)	
		2041-2065		Drawdown from baseline (m)	No CC	1.0		
					MCC (LCC - HCC)	2.1 (0.4 to 4)		
		Use at 0.1 metre drawdown		2021-2040	Volume (ML/yr)	No CC	-	
						MCC (LCC - HCC)	8,404 (- to 1,735)	
			Proportion of recharge (%)		No CC	NA		
					MCC (LCC - HCC)	6.8% (- to 1.8%)		
			2041-2065		Volume (ML/yr)	No CC	2,677	
						MCC (LCC - HCC)	1,425 (5,554 to 746)	
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	1.4% (4.3% to 1.1%)		
				Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
							MCC (LCC - HCC)	84,039 (- to 17,351)
			Proportion of recharge (%)			No CC	NA	
					MCC (LCC - HCC)	68% (- to 18%)		
		2041-2065	Volume (ML/yr)		No CC	26,769		
					MCC (LCC - HCC)	14,246 (55,544 to 7,464)		
				No CC	NA			

		Proportion of recharge (%)	MCC (LCC - HCC)	14% (43% to 11%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
			MCC (LCC - HCC)	168,077 (- to 34,702)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	136% (- to 36%)
	2041-2065	Volume (ML/yr)	No CC	53,537
			MCC (LCC - HCC)	28,491 (111,087 to 14,928)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	29% (85% to 21%)		
Stream gauge/Catchment:		236209 - Hopkins River @ Hopkins Falls		
Base flow index (1975-2020)		0.44		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	175,057 (231,196 to 129,381)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-54,678 (1,460 to -100,354)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	143,869 (190,752 to 80,888)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-85,867 (-38,984 to -148,847)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.9% (1.4% to 2.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	6.3% (4.8% to 8.6%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	2.3% (1.8% to 4.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	7.7% (5.8% to 13.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	9 (11 to 6)
		Change from 1975-	MCC (LCC - HCC)	-2.2 (0.5 to -4.5)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	7 (9 to 4)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-3.8 (-1.5 to -6.9)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	38,979% (29,514% to 52,740%)
		PCV use (ML/yr)	MCC (LCC - HCC)	129,260% (97,873% to 174,893%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	47,430% (35,772% to 84,358%)
		PCV use (ML/yr)	MCC (LCC - HCC)	157,281% (118,625% to 279,742%)
Stream gauge/Catchment:		236212 - Brucknell Creek @ Cudgee		
Base flow index (1975- 2020)		0.44		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	22,522 (29,744 to 16,645)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-3,365 (3,857 to -9,242)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	18,509 (24,541 to 10,407)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-7,378 (-1,346 to -15,480)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	8% (6% to 11%)
		PCV use (ML/yr)	MCC (LCC - HCC)	21% (16% to 29%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	10% (8% to 18%)
		PCV use (ML/yr)	MCC (LCC - HCC)	26% (19% to 46%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	12 (15 to 9)
		Change from 1975-	MCC (LCC - HCC)	-1.7 (2.0 to -4.7)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	9 (13 to 5)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3.8 (-0.7 to -7.9)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	16,038% (12,144% to 21,700%)
			PCV use (ML/yr)	MCC (LCC - HCC)	41,365% (31,321% to 55,968%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	19,515% (14,719% to 34,709%)
			PCV use (ML/yr)	MCC (LCC - HCC)	50,332% (37,961% to 89,521%)

Table MM-31 Synthesis information – Waterway GDEs-Shepparton Irrigation GMU

Assessment area	GMU				SHEPPARTON IRRIGATION GMA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	2.5	
					MCC (LCC - HCC)	2.9 (1 to 4.1)	
		55,314 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.8	
					MCC (LCC - HCC)	2.8 (1.2 to 6.7)	
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.8	
					MCC (LCC - HCC)	3.3 (2.3 to 4.3)	
		266,555 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.4	
					MCC (LCC - HCC)	4.4 (1.9 to 6.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	12,314	
					MCC (LCC - HCC)	10,836 (14,859 to 8,570)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	2.0% (2.2% to 2.1%)	
			2041-2065	Volume (ML/yr)	No CC	10,432	
					MCC (LCC - HCC)	8,090 (15,188 to 5,397)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.9% (2.5% to 1.9%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	123,137	
					MCC (LCC - HCC)	108,360 (148,593 to 85,702)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	20% (22% to 21%)	
			2041-2065	Volume (ML/yr)	No CC	104,324	
					MCC (LCC - HCC)	80,897 (151,881 to 53,975)	
						No CC	NA
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	19% (25% to 19%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	246,275
			MCC (LCC - HCC)	216,720 (297,185 to 171,405)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	41% (44% to 41%)
	2041-2065	Volume (ML/yr)	No CC	208,649
			MCC (LCC - HCC)	161,794 (303,762 to 107,950)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	37% (50% to 39%)		
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975-2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to -330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.0% (2.5% to 3.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.2% (2.7% to 4.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)
		Change from 1975-	MCC (LCC - HCC)	-38 (40 to -116)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
			Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,753% (1,444% to 2,238%)
			PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)
			PCV use (ML/yr)	MCC (LCC - HCC)	9,010% (7,676% to 13,383%)

Table MM-32 Synthesis information – Waterway GDEs-South West Limestone GMU

Assessment area	GMU		SOUTH WEST LIMESTONE GMA			
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-1.0
					MCC (LCC - HCC)	-0.6 (-1.2 to 0)
		30,801 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.5
					MCC (LCC - HCC)	-0.5 (-1 to 1.1)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-0.6
					MCC (LCC - HCC)	-0.2 (-1.1 to 0.7)
		83,330 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	1.4 (0.1 to 2.5)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	220,431 (- to 13,971)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	5,647
					MCC (LCC - HCC)	7,248 (24,595 to 4,376)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
					MCC (LCC - HCC)	2,204,307 (- to 139,712)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	56,469
					MCC (LCC - HCC)	72,480 (245,954 to 43,760)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	NA	
				MCC (LCC - HCC)	5% (14% to 4%)	
			Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
MCC (LCC - HCC)	4,408,614 (- to 279,423)					
			No CC	NA		

		Proportion of recharge (%)	MCC (LCC - HCC)	268% (- to 20%)
	2041-2065	Volume (ML/yr)	No CC	112,939
			MCC (LCC - HCC)	144,959 (491,908 to 87,520)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	11% (28% to 9%)
Stream gauge/Catchment:		235237 - Scotts Creek @ Curdie (Digneys Bridge)		
Base flow index (1975-2020)		0.29		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	43,984 (50,525 to 35,405)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3,413 (3,128 to -11,991)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	39,908 (45,169 to 27,537)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,489 (-2,228 to -19,859)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	0.002% (0.002% to 0.00%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	0.003% (0.002% to 0.004%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	0.35 (0.41 to 0.28)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.03 (0.03 to -0.10)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	0.32 (0.36 to 0.22)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-0.06 (-0.02 to -0.16)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.0% (0.0% to 0.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	284% (247% to 352%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.0% (0.0% to 0.0%)

		PCV use (ML/yr)	MCC (LCC - HCC)	313% (276% to 453%)
Stream gauge/Catchment:		237205 - Darlot Creek @ Homerton Bridge		
Base flow index (1975-2020)		0.7		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	47,866 (61,979 to 34,344)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,937 (6,176 to -21,460)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	37,349 (52,213 to 24,255)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-18,455 (-3,591 to -31,548)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.18% (0.14% to 0.25%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.62% (0.48% to 0.87%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.23% (0.17% to 0.36%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.80% (0.57% to 1.23%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	30 (38 to 21)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-5 (4 to -13)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	23 (32 to 15)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-11 (-2 to -19)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	295% (228% to 411%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,004% (775% to 1,400%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	378% (270% to 581%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,287% (921% to 1,982%)
Stream gauge/Catchment:		237209 - Darlot Creek @ Myamyn		
Base flow index (1975-2020)		0.75		

Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	27,092 (35,080 to 19,438)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3,280 (4,708 to -10,934)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	21,139 (29,552 to 13,728)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-9,233 (-820 to -16,644)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.09% (0.07% to 0.13%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.75% (0.58% to 1.04%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.12% (0.08% to 0.18%)
		PCV use (ML/yr)	MCC (LCC - HCC)	0.96% (0.69% to 1.48%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	17 (22 to 12)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-2.1 (3.0 to -7.0)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	13 (19 to 9)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-5.9 (-0.5 to -11)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	145% (112% to 202%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,175% (907% to 1,637%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	186% (133% to 287%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,506% (1,077% to 2,318%)

Table MM-33 Synthesis information – Waterway GDEs-Southern Zone (West Wimmera) GMU

Assessment area	GMU		SOUTHERN ZONE (WEST WIMMERA)			
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-0.2
					MCC (LCC - HCC)	0 (-0.4 to 0)
		561 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	-0.1 (-0.3 to 0.5)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-0.1
					MCC (LCC - HCC)	0.4 (-0.5 to 0.9)
		2,687 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.3
					MCC (LCC - HCC)	1.3 (-0.5 to 2.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,965
					MCC (LCC - HCC)	783 (- to 429)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	208
					MCC (LCC - HCC)	292 (- to 160)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	59,647
					MCC (LCC - HCC)	7,828 (- to 4,288)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	2,084
					MCC (LCC - HCC)	2,919 (- to 1,602)
						No CC

		Proportion of recharge (%)	MCC (LCC - HCC)	1.9% (- to 1.7%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	119,294
			MCC (LCC - HCC)	15,655 (- to 8,575)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	7.1% (- to 5.7%)	
	2041-2065	Volume (ML/yr)	No CC	4,168
			MCC (LCC - HCC)	5,839 (- to 3,204)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	3.8% (- to 3.4%)		
Stream gauge/Catchment:		238206 - Glenelg River @ Dartmoor		
Base flow index (1975-2020)		0.46		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	355,715 (442,997 to 258,140)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55,992 (31,290 to -153,567)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	282,431 (397,709 to 161,389)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-129,276 (-13,998 to -250,318)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.2% (1.0% to 1.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5.5% (4.4% to 7.6%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.5% (1.1% to 2.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	7.0% (4.9% to 12.2%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	36 (45 to 26)
		Change from 1975-	MCC (LCC - HCC)	-5.7 (3.2 to -16)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	29 (40 to 16)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-13 (-1.4 to -25)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	11,708% (9,402% to 16,134%)
			PCV use (ML/yr)	MCC (LCC - HCC)	54,734% (43,950% to 75,422%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	14,746% (10,472% to 25,806%)
			PCV use (ML/yr)	MCC (LCC - HCC)	68,936% (48,954% to 120,637%)

Table MM-34 Synthesis information – Waterway GDEs-Strathbogie GMU

Assessment area	GMU				STRATHBOGIE GMA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 412 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5	
					MCC (LCC - HCC)	2.3 (0 to 3.3)	
			2041-2065	Drawdown from baseline (m)	No CC	2.0	
					MCC (LCC - HCC)	2 (0.4 to 5.9)	
			PCV use 1,109 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.6
						MCC (LCC - HCC)	2.3 (1.2 to 3.3)
		2041-2065		Drawdown from baseline (m)	No CC	2.2	
					MCC (LCC - HCC)	3.4 (1 to 5.5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	90	
					MCC (LCC - HCC)	65 (129 to 48)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.013% (0.021% to 0.011%)	
			2041-2065	Volume (ML/yr)	No CC	45	
					MCC (LCC - HCC)	46 (126 to 29)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.012% (0.025% to 0.010%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	897	
					MCC (LCC - HCC)	652 (1,288 to 478)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.13% (0.21% to 0.11%)	
			2041-2065	Volume (ML/yr)	No CC	453	
					MCC (LCC - HCC)	464 (1,258 to 287)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	0.12% (0.25% to 0.10%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,794	
			MCC (LCC - HCC)	1,303 (2,576 to 957)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	0.26% (0.42% to 0.22%)	
	2041-2065	Volume (ML/yr)	No CC	905	
			MCC (LCC - HCC)	928 (2,516 to 575)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	0.24% (0.50% to 0.20%)	
Stream gauge/Catchment:		405228 - Hughes Creek @ Tarcombe Road			
Base flow index (1975-2020)		0.5			
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	55,391 (67,265 to 43,395)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-5,815 (6,059 to -17,811)	
	2065	Flow (ML/yr)	MCC (LCC - HCC)	52,821 (62,001 to 35,561)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-8,385 (796 to -25,645)	
	Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.15% (0.13% to 0.20%)
			PCV use (ML/yr)	MCC (LCC - HCC)	0.35% (0.29% to 0.45%)
2065		Current use (ML/yr)	MCC (LCC - HCC)	0.16% (0.14% to 0.24%)	
		PCV use (ML/yr)	MCC (LCC - HCC)	0.37% (0.31% to 0.55%)	
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	12 (14 to 9)	
		Change from 1975-	MCC (LCC - HCC)	-1.2 (1.3 to -3.7)	

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	11 (13 to 7)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-1.7 (0.2 to -5.3)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	746% (614% to 952%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,690% (1,392% to 2,158%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	782% (666% to 1,162%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1,773% (1,510% to 2,633%)
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975- 2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to - 330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.0% (2.5% to 3.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.2% (2.7% to 4.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)
		Change from 1975-	MCC (LCC - HCC)	-38 (40 to -116)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,753% (1,444% to 2,238%)
			PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)
			PCV use (ML/yr)	MCC (LCC - HCC)	9,010% (7,676% to 13,383%)

Table MM-35 Synthesis information – Waterway GDEs-Tarwin GMU

Assessment area	GMU					TARWIN GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.6
					MCC (LCC - HCC)	1.1 (0.1 to 1.6)
		11 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.2
					MCC (LCC - HCC)	1.2 (0.6 to 2.9)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	1.2
					MCC (LCC - HCC)	1.7 (0.8 to 2)
		49 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.8
					MCC (LCC - HCC)	3.3 (2.5 to 3.6)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3.8
					MCC (LCC - HCC)	3.0 (5.0 to 3.0)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.032% (0.046% to 0.039%)	
			2041-2065	Volume (ML/yr)	No CC	3.0
					MCC (LCC - HCC)	2.0 (2.0 to 2.0)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.026% (0.020% to 0.035%)		
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	38
					MCC (LCC - HCC)	30 (48 to 27)
				Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)		0.32% (0.44% to 0.35%)	
			2041-2065	Volume (ML/yr)	No CC	33
					MCC (LCC - HCC)	16 (20 to 16)
		Proportion of recharge (%)		No CC	NA	
			MCC (LCC - HCC)	0.21% (0.20% to 0.28%)		
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	76		
			MCC (LCC - HCC)	60 (96 to 55)		
			No CC	NA		

				Proportion of recharge (%)	MCC (LCC - HCC)	0.65% (0.88% to 0.71%)
				2041-2065	Volume (ML/yr)	No CC
			MCC (LCC - HCC)			33 (40 to 31)
			Proportion of recharge (%)		No CC	NA
				MCC (LCC - HCC)	0.42% (0.41% to 0.54%)	
Stream gauge/Catchment:				No assessed gauge in catchment		

Table MM-36 Synthesis information – Waterway GDEs-Upper Goulburn GMU

Assessment area	GMU				UPPER GOULBURN GMA		
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	715 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.4
						MCC (LCC - HCC)	0 (-2.3 to 0.9)
		715 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.2	
					MCC (LCC - HCC)	-0.2 (-1.5 to 2.6)	
		PCV use	4,938 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
						MCC (LCC - HCC)	1.3 (-0.2 to 2.4)
		4,938 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.4	
					MCC (LCC - HCC)	2.8 (0 to 5)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	707	
					MCC (LCC - HCC)	447 (3,091 to 282)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.042% (0.241% to 0.037%)	
				2041-2065	Volume (ML/yr)	No CC	140
						MCC (LCC - HCC)	216 (891 to 134)
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	0.026% (0.081% to 0.033%)			
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	7,072	
					MCC (LCC - HCC)	4,468 (30,911 to 2,825)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.42% (2.41% to 0.37%)	
				2041-2065	Volume (ML/yr)	No CC	1,396
						MCC (LCC - HCC)	2,163 (8,910 to 1,340)
					No CC	NA	

		Proportion of recharge (%)	MCC (LCC - HCC)	0.26% (0.81% to 0.33%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	14,144
			MCC (LCC - HCC)	8,937 (61,822 to 5,650)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	0.83% (4.82% to 0.74%)
	2041-2065	Volume (ML/yr)	No CC	2,792
			MCC (LCC - HCC)	4,326 (17,820 to 2,681)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	0.53% (1.63% to 0.66%)		
Stream gauge/Catchment:		405231 - King Parrot Creek @ Flowerdale		
Base flow index (1975-2020)		0.62		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	29,267 (35,541 to 22,929)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3,072 (3,202 to -9,411)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	27,909 (32,760 to 18,789)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-4,431 (420 to -13,550)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.4% (0.4% to 0.6%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.7% (1.4% to 2.1%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.7%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.7% (1.5% to 2.6%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	8 (10 to 7)
		Change from 1975-	MCC (LCC - HCC)	-0.9 (0.9 to -2.7)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	8 (9 to 5)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-1.3 (0.1 to -3.9)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,571% (1,294% to 2,005%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5,858% (4,824% to 7,477%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1,647% (1,403% to 2,447%)
		PCV use (ML/yr)	MCC (LCC - HCC)	6,143% (5,233% to 9,124%)
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975- 2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to - 330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.0% (2.5% to 3.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.2% (2.7% to 4.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)
		Change from 1975-	MCC (LCC - HCC)	-38 (40 to -116)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,753% (1,444% to 2,238%)
			PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)
			PCV use (ML/yr)	MCC (LCC - HCC)	9,010% (7,676% to 13,383%)

Table MM-37 Synthesis information – Waterway GDEs-Upper Murray GMU

Assessment area	GMU					UPPER MURRAY GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	-1.7	
					MCC (LCC - HCC)	-1.1 (-4.1 to 0)	
		510 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-1.4	
					MCC (LCC - HCC)	-1.4 (-3 to 1.7)	
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	-1.0	
					MCC (LCC - HCC)	-0.5 (-2.2 to 0.7)	
		3,185 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	-0.5	
					MCC (LCC - HCC)	0.7 (-2.2 to 2.9)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to 436)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to 0.017%)	
			2041-2065	Volume (ML/yr)	No CC	98	
					MCC (LCC - HCC)	401 (- to 145)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.014% (- to 0.008%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to 4,363)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to 0.17%)	
			2041-2065	Volume (ML/yr)	No CC	982	
					MCC (LCC - HCC)	4,011 (- to 1,450)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	0.14% (- to 0.08%)	
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
			MCC (LCC - HCC)	- (- to 8,727)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	- (- to 0.35%)	
	2041-2065	Volume (ML/yr)	No CC	1,964	
			MCC (LCC - HCC)	8,022 (- to 2,899)	
		Proportion of recharge (%)	No CC	NA	
			MCC (LCC - HCC)	0.27% (- to 0.16%)	
Stream gauge/Catchment:		401202 - Mitta Mitta River @ Mitta Mitta			
Base flow index (1975-2020)		0.60			
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	176,045 (225,245 to 147,409)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-16,144 (33,056 to -44,780)	
	2065	Flow (ML/yr)	MCC (LCC - HCC)	160,285 (218,134 to 116,466)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-31,903 (25,945 to -75,722)	
	Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.002% (0.002% to 0.003%)
			PCV use (ML/yr)	MCC (LCC - HCC)	0.06% (0.05% to 0.08%)
2065		Current use (ML/yr)	MCC (LCC - HCC)	0.003% (0.002% to 0.004%)	
		PCV use (ML/yr)	MCC (LCC - HCC)	0.07% (0.05% to 0.10%)	
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	126 (161 to 105)	
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-12 (24 to -32)	

	2065	Flow (ML/yr)	MCC (LCC - HCC)	115 (156 to 83)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-23 (19 to -54)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	3.4% (2.6% to 4.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	88% (69% to 105%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	3.7% (2.7% to 5.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	97% (71% to 133%)
Stream gauge/Catchment:		401210 - Snowy Creek @ Below Granite Flat		
Base flow index (1975-2020)		0.70		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	161,358 (206,454 to 135,111)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-26,824 (18,272 to -53,071)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	146,913 (199,936 to 106,750)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-41,268 (11,754 to -81,432)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	98 (125 to 82)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-11 (16 to -27)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	89 (121 to 65)
		Change from	MCC (LCC - HCC)	-20 (12 to -44)

			1975-2020 (ML/yr)		
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
			PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
		2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
			PCV use (ML/yr)	MCC (LCC - HCC)	No extraction

Table MM-38 Synthesis information – Waterway GDEs-Upper Ovens GMU

Assessment area	GMU					UPPER OVENS WSPA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 978 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-2.1	
					MCC (LCC - HCC)	-1.7 (-4.4 to -0.7)	
			2041-2065	Drawdown from baseline (m)	No CC	-1.9	
					MCC (LCC - HCC)	-1.9 (-3.3 to 0.9)	
			PCV use 3,498 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-2.0
						MCC (LCC - HCC)	-1.5 (-2.8 to -0.7)
		2041-2065		Drawdown from baseline (m)	No CC	-1.3	
					MCC (LCC - HCC)	-0.5 (-2.5 to 1)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to -)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	110	
					MCC (LCC - HCC)	5,362 (- to 334)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	0.65% (- to 0.06%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-	
					MCC (LCC - HCC)	- (- to -)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	1,096	
					MCC (LCC - HCC)	53,617 (- to 3,343)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	6.5% (- to 0.6%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	-
			MCC (LCC - HCC)	- (- to -)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	- (- to -)
	2041-2065	Volume (ML/yr)	No CC	2,192
			MCC (LCC - HCC)	107,234 (- to 6,687)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	13% (- to 1%)		
Stream gauge/Catchment:		403241 - Ovens River @ Peechelba		
Base flow index (1975-2020)		0.59		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,024,472 (1,282,887 to 880,908)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-124,039 (134,376 to -267,603)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	968,195 (1,162,293 to 644,315)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-180,316 (13,782 to -504,196)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.4% (0.3% to 0.5%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.5% (1.2% to 1.8%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.5% (0.4% to 0.7%)
		PCV use (ML/yr)	MCC (LCC - HCC)	1.6% (1.4% to 2.4%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	203 (255 to 175)
		Change from 1975-	MCC (LCC - HCC)	-25 (27 to -53)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	192 (231 to 128)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-36 (3 to -100)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	2,156% (1,721% to 2,507%)
		PCV use (ML/yr)	MCC (LCC - HCC)	7,764% (6,200% to 9,029%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	2,281% (1,900% to 3,427%)
		PCV use (ML/yr)	MCC (LCC - HCC)	8,215% (6,843% to 12,345%)
Stream gauge/Catchment:		403244 - Owens River @ Harrietville		
Base flow index (1975- 2020)		0.67		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	63,092 (79,006 to 54,250)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-7,639 (8,276 to -16,480)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	59,626 (71,580 to 39,680)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-11,105 (849 to -31,051)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
	2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
		PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	26 (33 to 22)
		Change from 1975-	MCC (LCC - HCC)	-3.2 (3.4 to -6.8)

			2020 (ML/yr)		
			2065	Flow (ML/yr)	MCC (LCC - HCC)
	Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)		-4.6 (0.4 to -13)	
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
			PCV use (ML/yr)	MCC (LCC - HCC)	No extraction
		2065	Current use (ML/yr)	MCC (LCC - HCC)	No extraction
			PCV use (ML/yr)	MCC (LCC - HCC)	No extraction

Table MM-39 Synthesis information – Waterway GDEs-Wa De Lock GMU

Assessment area	GMU					WA DE LOCK GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use 6,818 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.3	
					MCC (LCC - HCC)	0.4 (-0.6 to 0.9)	
			2041-2065	Drawdown from baseline (m)	No CC	0.5	
					MCC (LCC - HCC)	0.5 (-0.1 to 1.7)	
			PCV use 22,401 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
						MCC (LCC - HCC)	0.8 (0.4 to 1.2)
		2041-2065		Drawdown from baseline (m)	No CC	1.5	
					MCC (LCC - HCC)	1.8 (1.1 to 2.4)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	3,064	
					MCC (LCC - HCC)	2,753 (4,646 to 2,124)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	2.5% (3.5% to 2.3%)	
			2041-2065	Volume (ML/yr)	No CC	1,384	
					MCC (LCC - HCC)	1,323 (1,834 to 1,088)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	1.5% (1.6% to 1.7%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	30,645	
					MCC (LCC - HCC)	27,534 (46,464 to 21,244)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	25% (35% to 23%)	
			2041-2065	Volume (ML/yr)	No CC	13,841	
					MCC (LCC - HCC)	13,228 (18,337 to 10,876)	
						No CC	NA
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	15% (16% to 17%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	61,290
			MCC (LCC - HCC)	55,069 (92,927 to 42,487)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	50% (70% to 46%)
	2041-2065	Volume (ML/yr)	No CC	27,683
			MCC (LCC - HCC)	26,456 (36,675 to 21,752)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	30% (33% to 33%)		
Stream gauge/Catchment:		225234 - Avon River @ Clydebank (Chinn's Bridge)		
Base flow index (1975-2020)		0.44		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	89,825 (108,996 to 71,544)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-8,992 (10,178 to -27,274)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	85,082 (100,794 to 57,413)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-13,736 (1,976 to -41,405)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	2.6% (2.2% to 3.3%)
		PCV use (ML/yr)	MCC (LCC - HCC)	12% (10% to 15%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	2.8% (2.3% to 4.1%)
		PCV use (ML/yr)	MCC (LCC - HCC)	13% (11% to 19%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	16 (20 to 13)
		Change from 1975-	MCC (LCC - HCC)	-1.6 (1.8 to -4.9)

		2020 (ML/yr)		
	2065	Flow (ML/yr)	MCC (LCC - HCC)	15 (18 to 10)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-2.5 (0.4 to -7.4)
Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	14,664% (12,085% to 18,411%)
		PCV use (ML/yr)	MCC (LCC - HCC)	67,825% (55,896% to 85,156%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	15,481% (13,068% to 22,942%)
		PCV use (ML/yr)	MCC (LCC - HCC)	71,606% (60,444% to 106,115%)
Stream gauge/Catchment:		225247 - Macalister River @ Riverslea		
Base flow index (1975- 2020)		0.58		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	123,624 (150,008 to 98,464)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-12,376 (14,008 to -37,536)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	117,096 (138,720 to 79,016)
		Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-18,904 (2,720 to -56,984)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.6% (1.3% to 2.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	4.9% (4.0% to 6.1%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.7% (1.4% to 2.5%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5.2% (4.4% to 7.6%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	46 (55 to 36)
		Change from 1975-	MCC (LCC - HCC)	-4.6 (5.2 to -13.8)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	43 (51 to 29)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7.0 (1.0 to -21.0)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	4,305% (3,548% to 5,405%)
			PCV use (ML/yr)	MCC (LCC - HCC)	13,253% (10,922% to 16,639%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	4,545% (3,836% to 6,735%)
			PCV use (ML/yr)	MCC (LCC - HCC)	13,992% (11,810% to 20,734%)

Table MM-40 Synthesis information – Waterway GDEs-Warrion GMU

Assessment area	GMU					WARRION WSPA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0.1 to 1.7)
		2,847 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.1
					MCC (LCC - HCC)	1.1 (0.5 to 3.3)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.7
					MCC (LCC - HCC)	2.9 (1.6 to 5.3)
		10,742 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	6.1
					MCC (LCC - HCC)	7.3 (4.9 to 10.2)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	455
					MCC (LCC - HCC)	426 (636 to 273)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	206
					MCC (LCC - HCC)	180 (239 to 139)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	4,546
					MCC (LCC - HCC)	4,256 (6,357 to 2,730)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	2,064
					MCC (LCC - HCC)	1,805 (2,391 to 1,390)
				Proportion of recharge (%)	No CC	NA
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	9,092
					MCC (LCC - HCC)	8,513 (12,714 to 5,460)
					No CC	NA

				Proportion of recharge (%)	MCC (LCC - HCC)	19% (24% to 16%)
				2041-2065	Volume (ML/yr)	No CC
			MCC (LCC - HCC)			3,610 (4,781 to 2,780)
			Proportion of recharge (%)		No CC	NA
				MCC (LCC - HCC)	13% (12% to 14%)	
Stream gauge/Catchment:			No assessed gauge in catchment			

Table MM-41 Synthesis information – Waterway GDEs-West Goulburn GMU

Assessment area	GMU					WEST GOULBURN GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	1.8
					MCC (LCC - HCC)	2.5 (-0.1 to 3.3)
		3,509 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	2.0
					MCC (LCC - HCC)	2 (0.4 to 5.7)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	2.4
					MCC (LCC - HCC)	3.2 (1.7 to 4)
		95,132 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	3.1
					MCC (LCC - HCC)	4.5 (1.5 to 6.7)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	5,025
					MCC (LCC - HCC)	4,035 (6,517 to 3,390)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.7% (0.9% to 0.8%)
			2041-2065	Volume (ML/yr)	No CC	3,743
					MCC (LCC - HCC)	2,792 (6,050 to 2,016)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	0.7% (1.0% to 0.7%)
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	50,249
					MCC (LCC - HCC)	40,348 (65,169 to 33,900)
				Proportion of recharge (%)	No CC	NA
					MCC (LCC - HCC)	7% (9% to 8%)
			2041-2065	Volume (ML/yr)	No CC	37,429
					MCC (LCC - HCC)	27,920 (60,498 to 20,159)
					No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	7% (10% to 7%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	100,497
			MCC (LCC - HCC)	80,696 (130,338 to 67,800)
		Proportion of recharge (%)	No CC	NA
			MCC (LCC - HCC)	14% (18% to 15%)
	2041-2065	Volume (ML/yr)	No CC	74,857
			MCC (LCC - HCC)	55,840 (120,995 to 40,318)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	13% (21% to 14%)		
Stream gauge/Catchment:		405232 - GOULBURN RIVER @ Mccoys BRIDGE		
Base flow index (1975-2020)		0.53		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	1,026,335 (1,246,345 to 804,057)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-107,737 (112,273 to -330,015)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	978,704 (1,148,815 to 658,896)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-155,368 (14,743 to -475,176)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.5% to 0.8%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.0% (2.5% to 3.9%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	0.6% (0.6% to 1.0%)
		PCV use (ML/yr)	MCC (LCC - HCC)	3.2% (2.7% to 4.7%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	362 (440 to 284)
		Change from 1975-	MCC (LCC - HCC)	-38 (40 to -116)

			2020 (ML/yr)			
			2065	Flow (ML/yr)	MCC (LCC - HCC)	345 (405 to 233)
				Change from 1975- 2020 (ML/yr)	MCC (LCC - HCC)	-55 (5 to -168)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1,753% (1,444% to 2,238%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	8,592% (7,075% to 10,967%)	
		2065	Current use (ML/yr)	MCC (LCC - HCC)	1,838% (1,566% to 2,731%)	
			PCV use (ML/yr)	MCC (LCC - HCC)	9,010% (7,676% to 13,383%)	

Table MM-42 Synthesis information – Waterway GDEs-Wy Yung GMU

Assessment area	GMU				WY YUNG GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Environmental metric	Waterway GDEs	Avg Use	2021-2040	Drawdown from baseline (m)	No CC	0.1
					MCC (LCC - HCC)	0.2 (-0.7 to 0.7)
		680 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.2
					MCC (LCC - HCC)	0.2 (-0.4 to 1.3)
		PCV use	2021-2040	Drawdown from baseline (m)	No CC	0.5
					MCC (LCC - HCC)	0.5 (0.2 to 0.8)
		5,748 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.9
					MCC (LCC - HCC)	1.1 (0.6 to 1.4)
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	1,128
					MCC (LCC - HCC)	1,071 (1,641 to 840)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	1,543
					MCC (LCC - HCC)	555 (766 to 457)
				Proportion of recharge (%)	No CC	NA
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	11,281
					MCC (LCC - HCC)	10,711 (16,413 to 8,405)
				Proportion of recharge (%)	No CC	NA
			2041-2065	Volume (ML/yr)	No CC	15,435
					MCC (LCC - HCC)	5,551 (7,655 to 4,567)
				Proportion of recharge (%)	No CC	NA
		2041-2065	Volume (ML/yr)	No CC	22,563	
				MCC (LCC - HCC)	21,422 (32,826 to 16,810)	
			Proportion of recharge (%)	No CC	NA	
		Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	22,563
MCC (LCC - HCC)	21,422 (32,826 to 16,810)					
			No CC	NA		

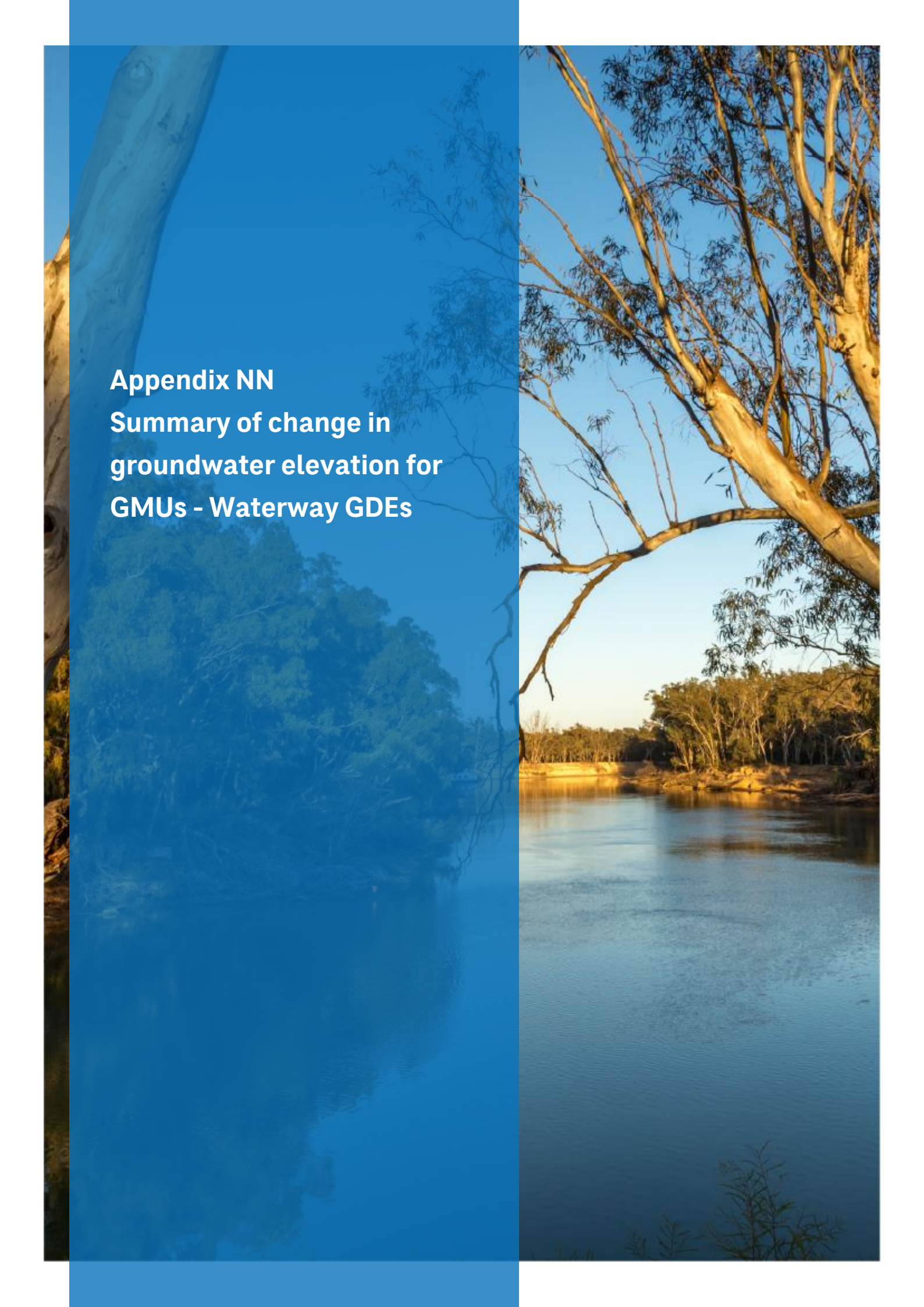
				Proportion of recharge (%)	MCC (LCC - HCC)	211% (249% to 229%)
				2041-2065	Volume (ML/yr)	No CC
			MCC (LCC - HCC)			11,102 (15,310 to 9,133)
			Proportion of recharge (%)		No CC	NA
					MCC (LCC - HCC)	140% (135% to 217%)
			Stream gauge/Catchment:			No assessed gauge in catchment

Table MM-43 Synthesis information – Waterway GDEs-Yangery GMU

Assessment area	GMU					YANGERY WSPA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Environmental metric	Waterway GDEs	Avg Use	3,425 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.3
						MCC (LCC - HCC)	-0.1 (-0.5 to 0.7)
		3,425 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	0.0	
					MCC (LCC - HCC)	0 (-0.3 to 1.6)	
		PCV use	12,123 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.1
						MCC (LCC - HCC)	0.3 (-0.6 to 1.3)
		12,123 ML/yr	2041-2065	Drawdown from baseline (m)	No CC	1.0	
					MCC (LCC - HCC)	1.8 (0.7 to 3)	
		Use at 0.1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	15,897	
					MCC (LCC - HCC)	3,915 (- to 1,266)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	8.5% (- to 3.4%)	
			2041-2065	Volume (ML/yr)	No CC	2,008	
					MCC (LCC - HCC)	873 (1,732 to 548)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	2.3% (3.6% to 1.9%)	
		Use at 1 metre drawdown	2021-2040	Volume (ML/yr)	No CC	158,974	
					MCC (LCC - HCC)	39,148 (- to 12,664)	
				Proportion of recharge (%)	No CC	NA	
					MCC (LCC - HCC)	85% (- to 34%)	
			2041-2065	Volume (ML/yr)	No CC	20,079	
					MCC (LCC - HCC)	8,726 (17,319 to 5,480)	
						No CC	NA

		Proportion of recharge (%)	MCC (LCC - HCC)	23% (36% to 19%)
Use at 2 metre drawdown	2021-2040	Volume (ML/yr)	No CC	317,948
			MCC (LCC - HCC)	78,296 (- to 25,329)
	Proportion of recharge (%)	No CC	NA	
		MCC (LCC - HCC)	171% (- to 68%)	
	2041-2065	Volume (ML/yr)	No CC	40,158
			MCC (LCC - HCC)	17,453 (34,637 to 10,960)
Proportion of recharge (%)	No CC	NA		
	MCC (LCC - HCC)	45% (71% to 39%)		
Stream gauge/Catchment:		236205 - Merri River @ Woodford		
Base flow index (1975-2020)		0.37		
Mean annual flow (MAF)	2040	Flow (ML/yr)	MCC (LCC - HCC)	44,721 (59,062 to 33,052)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-7,164 (7,177 to -18,833)
	2065	Flow (ML/yr)	MCC (LCC - HCC)	36,753 (48,730 to 20,664)
		Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-15,132 (-3,155 to -31,221)
Groundwater extraction in upgradient catchment as % of MAF flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	1.1% (0.8% to 1.5%)
		PCV use (ML/yr)	MCC (LCC - HCC)	5.6% (4.3% to 7.6%)
	2065	Current use (ML/yr)	MCC (LCC - HCC)	1.4% (1.0% to 2.4%)
		PCV use (ML/yr)	MCC (LCC - HCC)	6.9% (5.2% to 12.2%)
Q90 flow	2040	Flow (ML/yr)	MCC (LCC - HCC)	11 (15 to 8.3)
		Change from 1975-	MCC (LCC - HCC)	-1.7 (1.9 to -4.6)

		2020 (ML/yr)			
		2065	Flow (ML/yr)	MCC (LCC - HCC)	9.3 (12 to 5.2)
			Change from 1975-2020 (ML/yr)	MCC (LCC - HCC)	-3.7 (-0.7 to -7.8)
	Groundwater extraction in upgradient catchment as % of Q90 flow	2040	Current use (ML/yr)	MCC (LCC - HCC)	4,436% (3,359% to 6,002%)
			PCV use (ML/yr)	MCC (LCC - HCC)	22,377% (16,943% to 30,276%)
		2065	Current use (ML/yr)	MCC (LCC - HCC)	5,397% (4,071% to 9,600%)
			PCV use (ML/yr)	MCC (LCC - HCC)	27,227% (20,535% to 48,427%)

The image is a vertical composition. The left half is a solid blue overlay with white text. The right half is a photograph of a river scene. In the foreground on the right, a large, light-colored tree trunk and its branches frame the view. The river flows from the background towards the foreground. The far bank is lined with a dense forest of trees. The sky is clear and blue, suggesting a bright day. The water reflects the sky and the surrounding greenery.

Appendix NN
Summary of change in
groundwater elevation for
GMUs - Waterway GDEs

Table NN-1 Estimated average change in groundwater elevation from Baseline (1950-1974) for Waterway GDEs (river reaches) by GMU and scenario – Historic and 2021-2040– noCC –current climate (no climate change), LCC – low climate change, MCC – medium climate change, HCC – high climate change.

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Barnawartha GMA	No use	-0.48	1.15	-0.48	-2.53	-1.29	1.26	-1.68	-4.75
Barnawartha GMA	Current use	-0.88	1.09	-1.18	-2.79	-1.49	0.91	-1.49	-5.23
Barnawartha GMA	PCV use	-1.06	0.25	-1.36	-2.78	-2.05	0.16	-2.79	-5.26
Barnawartha GMA	200% PCV use	-1.49	-0.16	-1.83	-3.20	-2.20	-0.65	-3.69	-6.08
Big Desert Zone (West Wimmera)	No use	-0.22	0.03	0.11	-0.65	-0.32	0.01	0.01	-0.70
Big Desert Zone (West Wimmera)	Current use	-0.08	-0.02	0.17	-0.36	-0.09	0.00	-0.09	-0.11
Big Desert Zone (West Wimmera)	PCV use	-0.24	-0.02	-0.02	-0.71	-0.16	0.10	0.03	-0.65
Big Desert Zone (West Wimmera)	200% PCV use	-0.29	-0.05	-0.03	-0.74	-0.91	0.14	0.09	-0.62
Broken GMA	No use	-1.38	-1.16	-1.98	-3.04	-2.09	-0.99	-3.33	-5.77
Broken GMA	Current use	-0.72	0.47	-1.32	-2.37	-1.17	0.13	-1.17	-4.73
Broken GMA	PCV use	-0.77	-0.44	-1.32	-2.22	-1.43	-0.41	-2.48	-4.40
Broken GMA	200% PCV use	-1.08	-0.80	-1.66	-2.53	-4.07	-1.01	-3.06	-4.94
Bungaree GMA	No use	-0.81	-0.34	-1.65	-2.81	-2.15	-1.28	-3.37	-5.49
Bungaree GMA	Current use	0.09	0.51	-0.29	-0.90	0.05	0.21	0.05	-1.78
Bungaree GMA	PCV use	-3.33	-2.10	-4.55	-6.91	-2.87	-0.15	-6.01	-11.64
Bungaree GMA	200% PCV use	-3.96	-2.74	-5.18	-7.53	-6.32	-1.01	-6.85	-12.49
Cardigan GMA	No use	-0.60	-0.16	-1.84	-2.53	-1.74	-0.89	-3.53	-5.04
Cardigan GMA	Current use	-0.08	0.14	-0.77	-1.20	-0.32	-0.22	-0.32	-2.16
Cardigan GMA	PCV use	-3.36	-2.12	-4.85	-7.00	-2.96	-0.37	-6.28	-11.43
Cardigan GMA	200% PCV use	-3.92	-2.70	-5.39	-7.55	-5.74	-0.90	-6.76	-11.93
Central Victorian Mineral Springs GMA	No use	-0.46	0.23	-1.71	-1.95	-1.11	0.02	-3.17	-4.34

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Central Victorian Mineral Springs GMA	Current use	-0.41	1.67	-1.53	-2.40	-0.64	1.20	-0.64	-5.78
Central Victorian Mineral Springs GMA	PCV use	-1.65	-0.66	-3.11	-4.21	-2.23	0.13	-5.25	-8.90
Central Victorian Mineral Springs GMA	200% PCV use	-2.45	-1.51	-4.03	-5.01	-7.00	-1.32	-6.82	-10.30
Colongulac GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Colongulac GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Colongulac GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Colongulac GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Denison GMA	No use	-0.44	0.07	-0.83	-1.25	-0.83	0.02	-1.56	-2.55
Denison GMA	Current use	-1.00	-0.20	-1.19	-1.53	-1.21	-0.73	-1.21	-2.24
Denison GMA	PCV use	-1.41	-1.05	-1.64	-2.08	-1.86	-1.32	-2.31	-3.10
Denison GMA	200% PCV use	-2.12	-1.77	-2.35	-2.78	-3.93	-2.39	-3.37	-4.16
Deutgam WSPA	No use	-0.07	0.71	-0.67	-0.76	-0.39	0.54	-1.27	-1.42
Deutgam WSPA	Current use	-0.16	0.26	-0.52	-1.01	-0.58	-0.11	-0.58	-1.98
Deutgam WSPA	PCV use	-1.68	-1.09	-2.27	-3.30	-2.76	-1.72	-4.00	-6.04
Deutgam WSPA	200% PCV use	-2.59	-2.01	-3.17	-4.21	-6.12	-3.60	-5.85	-7.89
Eildon GMA	No use	-0.77	-0.10	-1.46	-1.47	-1.56	-1.07	-2.32	-2.45
Eildon GMA	Current use	2.75	4.59	2.38	1.34	2.33	3.40	2.33	-0.15
Eildon GMA	PCV use	2.05	2.76	1.61	0.56	0.84	1.92	-0.05	-1.78
Eildon GMA	200% PCV use	1.14	1.82	0.64	-0.36	-13.50	0.13	-1.90	-3.55
Frankston GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Frankston GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Frankston GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Frankston GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gellibrand GMA	No use	-1.17	-0.47	0.12	-2.04	-1.85	-0.79	-1.22	-4.29

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Gellibrand GMA	Current use	0.43	1.04	1.08	-0.60	-0.30	0.65	-0.30	-2.76
Gellibrand GMA	PCV use	-3.12	-2.07	-2.75	-5.02	-8.90	-7.67	-9.31	-12.06
Gellibrand GMA	200% PCV use	-6.89	-5.81	-6.61	-8.71	-19.10	-15.79	-17.71	-20.12
Gerangamete GMA	No use	-1.01	-0.35	0.03	-1.70	-1.54	-0.58	-1.06	-3.64
Gerangamete GMA	Current use	0.21	0.76	0.66	-0.69	-0.48	0.28	-0.48	-2.55
Gerangamete GMA	PCV use	-4.06	-3.07	-3.88	-5.90	-10.46	-9.38	-10.97	-13.35
Gerangamete GMA	200% PCV use	-8.50	-7.49	-8.39	-10.27	-20.52	-18.90	-20.71	-22.80
Glenelg WSPA	No use	0.98	-0.47	-1.04	-0.76	0.95	-0.13	-1.98	-2.67
Glenelg WSPA	Current use	1.45	1.46	1.34	0.92	1.22	1.53	1.22	0.09
Glenelg WSPA	PCV use	1.01	1.13	0.80	0.48	-0.13	-0.01	-0.59	-0.99
Glenelg WSPA	200% PCV use	0.29	0.41	0.05	-0.22	-2.12	-1.53	-2.19	-2.48
Glenormiston GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Glenormiston GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	No use	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Hawkesdale GMA	No use	0.51	0.38	-1.01	-0.55	0.18	0.15	-1.66	-1.62
Hawkesdale GMA	Current use	0.00	0.35	-0.40	-0.65	-0.22	0.04	-0.22	-1.24
Hawkesdale GMA	PCV use	-0.47	-0.03	-0.98	-1.61	-1.15	-0.75	-1.94	-2.71
Hawkesdale GMA	200% PCV use	-0.83	-0.39	-1.34	-1.96	-2.11	-1.38	-2.59	-3.34
Heywood GMA	No use	1.19	0.28	-0.15	-0.40	1.02	0.26	-0.73	-1.53
Heywood GMA	Current use	0.44	0.53	0.44	0.23	0.41	0.49	0.41	-0.01

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Heywood GMA	PCV use	-0.23	-0.06	-0.32	-0.69	-0.83	-0.71	-1.05	-1.41
Heywood GMA	200% PCV use	-0.74	-0.58	-0.86	-1.19	-1.19	-1.77	-2.15	-2.45
Jan Juc GMA	No use	-1.02	-0.09	-0.48	-1.98	-1.69	-0.51	-1.75	-3.82
Jan Juc GMA	Current use	0.46	1.06	0.62	-0.58	-0.51	0.30	-0.51	-2.53
Jan Juc GMA	PCV use	-5.33	-4.44	-5.40	-7.00	-13.61	-12.65	-14.21	-16.02
Jan Juc GMA	200% PCV use	-11.48	-10.58	-11.62	-13.08	-28.92	-25.87	-27.63	-29.16
Kiewa GMA	No use	-0.27	1.83	-0.94	-1.63	-1.01	1.39	-1.79	-3.18
Kiewa GMA	Current use	0.22	2.67	-0.33	-1.48	-0.12	1.74	-0.12	-3.38
Kiewa GMA	PCV use	-0.06	1.07	-0.59	-1.62	-0.76	0.94	-1.72	-3.66
Kiewa GMA	200% PCV use	-0.63	0.48	-1.18	-2.18	-5.51	-0.06	-2.74	-4.62
Koo Wee Rup WSPA	No use	-0.34	0.31	-0.67	-1.25	-0.76	0.13	-1.47	-2.62
Koo Wee Rup WSPA	Current use	-1.06	-0.30	-1.69	-2.58	-1.69	-0.90	-1.69	-4.37
Koo Wee Rup WSPA	PCV use	-2.31	-1.41	-3.28	-4.66	-3.48	-2.21	-5.22	-7.76
Koo Wee Rup WSPA	200% PCV use	-3.41	-2.52	-4.38	-5.74	-4.96	-3.96	-6.95	-9.47
Lancefield GMA	No use	-0.41	0.38	-1.54	-1.74	-1.37	-0.10	-2.91	-3.85
Lancefield GMA	Current use	-1.01	0.76	-1.93	-2.43	-1.00	0.35	-1.00	-4.33
Lancefield GMA	PCV use	-2.20	-1.19	-3.51	-4.56	-1.85	0.36	-4.45	-7.73
Lancefield GMA	200% PCV use	-2.37	-1.35	-3.72	-4.72	-3.90	0.23	-4.64	-7.86
Leongatha GMA	No use	-0.41	0.07	-0.97	-1.23	-0.81	-0.29	-1.70	-2.28
Leongatha GMA	Current use	1.62	2.07	1.18	0.46	0.82	1.38	0.82	-0.88
Leongatha GMA	PCV use	0.57	1.23	-0.19	-1.06	-1.56	-0.98	-2.56	-3.53
Leongatha GMA	200% PCV use	-1.03	-0.36	-1.83	-2.63	-7.81	-3.67	-5.34	-6.19
Little Desert Zone (West Wimmera)	No use	-0.64	-0.46	-0.92	-1.21	-1.07	-0.66	-1.47	-1.85
Little Desert Zone (West Wimmera)	Current use	-0.21	-0.21	-0.53	-0.75	-0.61	-0.44	-0.61	-1.23

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Little Desert Zone (West Wimmera)	PCV use	-0.18	-0.12	-0.52	-0.89	-0.66	-0.41	-1.08	-1.58
Little Desert Zone (West Wimmera)	200% PCV use	-0.26	-0.18	-0.58	-0.96	-1.81	-0.50	-1.18	-1.69
Loddon Highlands WSPA	No use	-0.51	-0.11	-1.13	-2.23	-1.20	-0.55	-2.48	-4.42
Loddon Highlands WSPA	Current use	0.02	0.84	-0.51	-1.55	-0.22	0.61	-0.22	-3.85
Loddon Highlands WSPA	PCV use	-2.99	-1.92	-4.18	-6.18	-3.37	-0.87	-6.45	-11.51
Loddon Highlands WSPA	200% PCV use	-4.08	-3.06	-5.36	-7.28	-5.87	-2.76	-8.41	-13.35
Lower Campaspe Valley WSPA	No use	-1.53	-0.67	-3.04	-3.85	-2.44	-0.31	-5.47	-8.59
Lower Campaspe Valley WSPA	Current use	-4.27	-1.31	-5.46	-6.53	-4.62	-2.45	-4.62	-10.61
Lower Campaspe Valley WSPA	PCV use	-4.66	-3.81	-5.89	-6.98	-5.22	-2.95	-7.82	-11.45
Lower Campaspe Valley WSPA	200% PCV use	-6.20	-5.43	-7.48	-8.48	-8.54	-5.08	-9.91	-13.43
Lower Ovens GMA	No use	-0.57	0.18	-0.95	-1.71	-1.12	0.06	-1.82	-3.39
Lower Ovens GMA	Current use	0.75	2.45	0.33	-0.80	0.35	1.79	0.35	-2.79
Lower Ovens GMA	PCV use	0.60	1.25	0.21	-0.76	-0.17	1.09	-1.00	-2.83
Lower Ovens GMA	200% PCV use	0.11	0.74	-0.31	-1.26	-6.23	0.16	-1.95	-3.72
Merrimu GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Merrimu GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Merrimu GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Merrimu GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Mid Goulburn GMA	No use	-1.95	-1.25	-2.75	-4.08	-2.76	-0.62	-4.62	-8.19
Mid Goulburn GMA	Current use	-2.60	-0.82	-3.26	-4.35	-2.95	-1.14	-2.95	-7.13
Mid Goulburn GMA	PCV use	-2.91	-2.36	-3.53	-4.40	-3.64	-2.26	-4.79	-6.97
Mid Goulburn GMA	200% PCV use	-3.83	-3.32	-4.48	-5.29	-3.83	-3.73	-6.25	-8.34
Mid Loddon GMA	No use	-0.82	-0.38	-1.68	-2.82	-1.23	-0.03	-3.50	-6.53
Mid Loddon GMA	Current use	-3.15	-0.78	-4.23	-5.89	-3.54	-1.11	-3.54	-11.58
Mid Loddon GMA	PCV use	-3.58	-2.84	-4.74	-6.33	-4.22	-1.78	-7.35	-12.30

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Mid Loddon GMA	200% PCV use	-4.41	-3.79	-5.68	-7.21	-5.65	-3.17	-8.76	-13.60
Moe GMA	No use	-0.41	0.07	-0.65	-1.14	-0.73	-0.06	-1.27	-2.35
Moe GMA	Current use	-0.59	0.08	-0.88	-1.41	-0.97	-0.46	-0.97	-2.50
Moe GMA	PCV use	-2.29	-1.54	-2.99	-4.09	-4.01	-3.05	-5.23	-7.09
Moe GMA	200% PCV use	-4.04	-3.31	-4.75	-5.82	-7.00	-6.02	-8.20	-10.02
Moorabbin GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Moorabbin GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Moorabbin GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Moorabbin GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Neurapur Zone (West Wimmera)	No use	NA	NA	NA	NA	NA	NA	NA	NA
Neurapur Zone (West Wimmera)	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Neurapur Zone (West Wimmera)	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Neurapur Zone (West Wimmera)	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Newlingrook GMA	No use	-0.66	-0.27	1.24	-0.86	-0.78	-0.23	0.58	-2.16
Newlingrook GMA	Current use	3.04	3.49	4.12	2.16	2.31	3.37	2.31	-0.11
Newlingrook GMA	PCV use	1.25	1.97	2.20	0.27	-3.11	-2.20	-2.71	-5.06
Newlingrook GMA	200% PCV use	-1.34	-0.59	-0.51	-2.25	-17.84	-7.88	-8.72	-10.68
Northern Zone (West Wimmera)	No use	-0.59	-0.44	-0.68	-1.17	-0.96	-0.61	-1.13	-1.64
Northern Zone (West Wimmera)	Current use	-0.30	-0.37	-0.51	-0.78	-0.61	-0.56	-0.61	-1.01
Northern Zone (West Wimmera)	PCV use	-0.33	-0.27	-0.58	-1.04	-0.72	-0.53	-1.03	-1.55

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Northern Zone (West Wimmera)	200% PCV use	-0.40	-0.33	-0.63	-1.10	-1.25	-0.61	-1.11	-1.64
Nullawarre WSPA	No use	0.09	0.00	-0.15	-0.34	-0.02	-0.08	-0.54	-1.06
Nullawarre WSPA	Current use	0.32	0.60	-0.07	-1.15	-0.30	0.24	-0.30	-2.65
Nullawarre WSPA	PCV use	0.27	0.92	-0.26	-1.71	-1.01	-0.38	-2.12	-3.99
Nullawarre WSPA	200% PCV use	0.06	0.71	-0.49	-1.91	-1.41	-0.84	-2.62	-4.45
Shepparton Irrigation GMA	No use	-2.51	-1.77	-3.21	-5.38	-3.61	-0.83	-5.62	-10.90
Shepparton Irrigation GMA	Current use	-2.48	-1.02	-2.94	-4.09	-2.80	-1.16	-2.80	-6.69
Shepparton Irrigation GMA	PCV use	-2.81	-2.27	-3.25	-4.31	-3.37	-1.90	-4.37	-6.92
Shepparton Irrigation GMA	200% PCV use	-3.80	-3.28	-4.27	-5.26	-4.47	-3.36	-5.83	-8.30
South West Limestone GMA	No use	0.33	0.04	-0.84	-0.68	0.06	-0.08	-1.57	-1.93
South West Limestone GMA	Current use	0.95	1.25	0.65	0.00	0.53	0.97	0.53	-1.10
South West Limestone GMA	PCV use	0.59	1.08	0.17	-0.72	-0.57	-0.08	-1.38	-2.52
South West Limestone GMA	200% PCV use	0.14	0.62	-0.30	-1.17	-3.60	-1.01	-2.36	-3.43
Southern Zone (West Wimmera)	No use	-0.61	-0.59	-1.34	-1.42	-0.96	-0.33	-2.62	-3.71
Southern Zone (West Wimmera)	Current use	0.20	0.38	0.05	0.04	0.06	0.35	0.06	-0.55
Southern Zone (West Wimmera)	PCV use	0.09	0.47	-0.39	-0.88	-0.28	0.49	-1.32	-2.57
Southern Zone (West Wimmera)	200% PCV use	-0.18	0.20	-0.67	-1.14	-3.12	0.16	-1.67	-2.89
Strathbogie GMA	No use	-1.71	-1.21	-2.67	-3.61	-2.60	-1.09	-4.35	-6.83
Strathbogie GMA	Current use	-1.52	0.03	-2.26	-3.35	-1.98	-0.41	-1.98	-5.92
Strathbogie GMA	PCV use	-1.65	-1.16	-2.33	-3.28	-2.22	-1.02	-3.42	-5.49
Strathbogie GMA	200% PCV use	-2.07	-1.64	-2.79	-3.69	-4.82	-1.68	-4.06	-6.07
Tarwin GMA	No use	-0.07	0.06	-0.02	-0.41	-0.02	0.26	-0.27	-1.13
Tarwin GMA	Current use	-0.59	-0.09	-1.06	-1.56	-1.18	-0.60	-1.18	-2.87
Tarwin GMA	PCV use	-1.16	-0.76	-1.68	-1.97	-2.76	-2.49	-3.34	-3.55
Tarwin GMA	200% PCV use	-2.61	-2.19	-3.16	-3.38	-2.29	-4.83	-5.74	-5.86

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
Upper Goulburn GMA	No use	-0.63	0.11	-1.21	-1.43	-1.34	-0.54	-2.11	-2.58
Upper Goulburn GMA	Current use	0.42	2.26	-0.04	-0.93	0.24	1.50	0.24	-2.56
Upper Goulburn GMA	PCV use	-0.67	0.15	-1.30	-2.36	-1.43	0.02	-2.77	-5.03
Upper Goulburn GMA	200% PCV use	-1.45	-0.64	-2.12	-3.14	-8.18	-1.51	-4.36	-6.55
Upper Murray GMA	No use	-0.85	1.54	-1.89	-2.61	-2.08	0.56	-3.07	-4.65
Upper Murray GMA	Current use	1.67	4.13	1.12	-0.02	1.38	3.02	1.38	-1.65
Upper Murray GMA	PCV use	1.05	2.22	0.45	-0.73	0.47	2.23	-0.65	-2.86
Upper Murray GMA	200% PCV use	0.31	1.48	-0.29	-1.47	-8.50	1.11	-1.78	-3.96
Upper Ovens WSPA	No use	-0.14	1.46	-0.90	-0.85	-0.66	0.94	-1.48	-1.85
Upper Ovens WSPA	Current use	2.15	4.45	1.66	0.68	1.87	3.30	1.87	-0.92
Upper Ovens WSPA	PCV use	1.99	2.81	1.54	0.74	1.27	2.49	0.45	-0.99
Upper Ovens WSPA	200% PCV use	1.40	2.18	0.92	0.14	-9.00	1.38	-0.65	-2.03
Wa De Lock GMA	No use	-0.49	0.13	-0.68	-1.26	-0.85	-0.04	-1.36	-2.32
Wa De Lock GMA	Current use	-0.26	0.61	-0.35	-0.87	-0.51	0.09	-0.51	-1.66
Wa De Lock GMA	PCV use	-0.70	-0.36	-0.81	-1.19	-1.54	-1.09	-1.80	-2.35
Wa De Lock GMA	200% PCV use	-1.47	-1.14	-1.61	-1.96	-3.27	-2.58	-3.33	-3.82
Wandin Yallock GMA	No use	NA	NA	NA	NA	NA	NA	NA	NA
Wandin Yallock GMA	Current use	NA	NA	NA	NA	NA	NA	NA	NA
Wandin Yallock GMA	PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Wandin Yallock GMA	200% PCV use	NA	NA	NA	NA	NA	NA	NA	NA
Warrion WSPA	No use	-0.81	-0.32	-0.41	-1.64	-1.42	-0.54	-1.58	-3.64
Warrion WSPA	Current use	-0.52	-0.10	-0.47	-1.69	-1.11	-0.52	-1.11	-3.34
Warrion WSPA	PCV use	-2.68	-1.59	-2.94	-5.27	-6.13	-4.91	-7.26	-10.17
Warrion WSPA	200% PCV use	-4.58	-3.48	-4.87	-7.12	-9.98	-8.86	-11.31	-14.07

GMU	Pumping scenario	Estimated change in annual maximum watertable elevation for Wetland GDEs (from baseline (1950-1974))							
		2140 noCC	2140 LCC	2140 MCC	2140 HCC	4165 noCC	4165 LCC	4165 MCC	4165 HCC
		m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ	m Δ
West Goulburn GMA	No use	-1.47	-0.66	-2.27	-3.33	-2.25	-0.26	-3.98	-6.91
West Goulburn GMA	Current use	-1.83	0.07	-2.49	-3.35	-2.02	-0.39	-2.02	-5.68
West Goulburn GMA	PCV use	-2.44	-1.73	-3.17	-3.96	-3.06	-1.49	-4.49	-6.71
West Goulburn GMA	200% PCV use	-3.48	-2.79	-4.26	-4.97	-4.79	-3.18	-6.24	-8.34
Wy Yung GMA	No use	-0.20	0.40	-0.10	-0.71	-0.32	0.42	-0.46	-1.42
Wy Yung GMA	Current use	-0.10	0.68	-0.20	-0.67	-0.18	0.38	-0.18	-1.29
Wy Yung GMA	PCV use	-0.48	-0.25	-0.52	-0.76	-0.93	-0.62	-1.06	-1.41
Wy Yung GMA	200% PCV use	-1.03	-0.80	-1.08	-1.30	-0.46	-1.60	-2.06	-2.37
Yangery WSPA	No use	0.49	0.22	0.19	0.18	0.61	0.29	0.13	-0.14
Yangery WSPA	Current use	0.31	0.55	0.06	-0.66	-0.04	0.31	-0.04	-1.63
Yangery WSPA	PCV use	0.10	0.56	-0.26	-1.30	-1.04	-0.66	-1.77	-3.04
Yangery WSPA	200% PCV use	-0.29	0.17	-0.67	-1.69	-1.01	-1.49	-2.64	-3.87

The image features a landscape with a river in the foreground and a dense line of trees on the far bank. A large, light-colored tree trunk is prominent on the right side, with its branches extending over the water. The sky is clear and blue. A semi-transparent blue vertical bar covers the left half of the image, containing white text. The text is centered vertically and horizontally within the blue bar.

Appendix OO
Use-drawdown relationships for
Waterway GDEs

Table OO-1 Relationship between change in elevation of the watertable (as average annual maximum groundwater elevation) at waterway GDEs and groundwater use by GMU, as the coefficient of use (C) in $Change\ in\ groundwater\ elevation\ (m) = C * use\ (ML/yr) + 0$.

GMU	Relationship between change in elevation of the watertable at waterway GDEs and groundwater use by GMU							
	coefficient of use (C) in $Change\ in\ groundwater\ elevation\ (m) = C * use\ (ML/yr) + 0$							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Barnawartha GMA	-0.002157	-0.000027	-0.002688	-0.004926	-0.003458	-0.000601	-0.005435	-0.009347
Big Desert Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Broken GMA	-0.000180	-0.000114	-0.000286	-0.000454	-0.000574	-0.000140	-0.000517	-0.000890
Bungaree GMA	-0.000506	-0.000331	-0.000680	-0.001011	-0.000699	-0.000094	-0.000889	-0.001692
Cardigan GMA	-0.000811	-0.000542	-0.001143	-0.001617	-0.001050	-0.000161	-0.001438	-0.002586
Central Victorian Mineral Springs GMA	-0.000320	-0.000149	-0.000559	-0.000719	-0.000786	-0.000101	-0.000914	-0.001503
Colongulac GMA	NA	NA	NA	NA	NA	NA	NA	NA
Denison GMA	-0.000120	-0.000091	-0.000135	-0.000164	-0.000201	-0.000126	-0.000188	-0.000245
Deutgam WSPA	-0.000320	-0.000236	-0.000405	-0.000553	-0.000703	-0.000416	-0.000735	-0.001031
Eildon GMA	0.002044	0.003090	0.001438	0.000110	-0.009914	0.001283	-0.001209	-0.003487
Frankston GMA	NA	NA	NA	NA	NA	NA	NA	NA
Gellibrand GMA	NA	NA	NA	NA	NA	NA	NA	NA
Gerangamete GMA	-0.400890	-0.343517	-0.393205	-0.503796	-0.981073	-0.898462	-0.998094	-1.123420
Glenelg WSPA	0.000016	0.000019	0.000010	0.000002	-0.000034	-0.000022	-0.000039	-0.000049
Glenormiston GMA	NA	NA	NA	NA	NA	NA	NA	NA
Gymbowen Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Hawkesdale GMA	-0.000037	-0.000011	-0.000066	-0.000100	-0.000094	-0.000060	-0.000124	-0.000171
Heywood GMA	-0.000043	-0.000029	-0.000052	-0.000082	-0.000085	-0.000112	-0.000143	-0.000173
Jan Juc GMA	-0.001327	-0.001199	-0.001343	-0.001560	-0.003359	-0.003024	-0.003266	-0.003504
Kiewa GMA	-0.000087	0.000184	-0.000209	-0.000437	-0.000816	0.000085	-0.000499	-0.000946
Koo Wee Rup WSPA	-0.000161	-0.000112	-0.000214	-0.000289	-0.000238	-0.000178	-0.000335	-0.000479
Lancefield GMA	-0.001464	-0.000762	-0.002324	-0.002973	-0.002019	0.000185	-0.002855	-0.004989
Leongatha GMA	-0.000192	0.000098	-0.000532	-0.000888	-0.002425	-0.001163	-0.001866	-0.002267

GMU	Relationship between change in elevation of the watertable at waterway GDEs and groundwater use by GMU coefficient of use (C) in Change in groundwater elevation (m) = C*use (ML/yr) + 0							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Little Desert Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Loddon Highlands WSPA	-0.000150	-0.000104	-0.000202	-0.000286	-0.000204	-0.000083	-0.000313	-0.000531
Lower Campaspe Valley WSPA	-0.000058	-0.000046	-0.000071	-0.000082	-0.000074	-0.000043	-0.000090	-0.000131
Lower Ovens GMA	0.000013	0.000042	-0.000004	-0.000043	-0.000152	0.000024	-0.000058	-0.000135
Merrimu GMA	NA	NA	NA	NA	NA	NA	NA	NA
Mid Goulburn GMA	-0.000081	-0.000067	-0.000096	-0.000115	-0.000086	-0.000073	-0.000131	-0.000182
Mid Loddon GMA	-0.000094	-0.000072	-0.000123	-0.000160	-0.000116	-0.000058	-0.000178	-0.000307
Moe GMA	-0.000698	-0.000539	-0.000845	-0.001069	-0.001211	-0.001010	-0.001452	-0.001843
Moorabbin GMA	NA	NA	NA	NA	NA	NA	NA	NA
Nepean GMA	NA	NA	NA	NA	NA	NA	NA	NA
Neuarpur Zone (West Wimmera)	NA	NA	NA	NA	NA	NA	NA	NA
Newlingbrook GMA	-0.000144	0.000087	0.000130	-0.000436	-0.004032	-0.001864	-0.002092	-0.002750
Northern Zone (West Wimmera)	-0.000059	-0.000051	-0.000097	-0.000169	-0.000165	-0.000093	-0.000166	-0.000249
Nullawarre WSPA	0.000005	0.000025	-0.000012	-0.000058	-0.000037	-0.000018	-0.000070	-0.000134
Shepparton Irrigation GMA	-0.000008	-0.000007	-0.000009	-0.000012	-0.000010	-0.000007	-0.000012	-0.000019
South West Limestone GMA	0.000003	0.000007	0.000000	-0.000007	-0.000018	-0.000004	-0.000014	-0.000023
Southern Zone (West Wimmera)	-0.000017	0.000071	-0.000128	-0.000233	-0.000480	0.000065	-0.000343	-0.000624
Strathbogie GMA	-0.001115	-0.000776	-0.001534	-0.002091	-0.002209	-0.000795	-0.002155	-0.003481
Tarwin GMA	-0.026275	-0.020871	-0.033287	-0.036671	-0.030708	-0.049643	-0.060991	-0.064295
Upper Goulburn GMA	-0.000141	-0.000032	-0.000224	-0.000354	-0.000716	-0.000112	-0.000462	-0.000746
Upper Murray GMA	0.000121	0.000365	0.000003	-0.000229	-0.001018	0.000308	-0.000249	-0.000690
Upper Ovens WSPA	0.000303	0.000474	0.000216	0.000069	-0.000912	0.000347	-0.000019	-0.000299
Wa De Lock GMA	-0.000033	-0.000022	-0.000036	-0.000047	-0.000072	-0.000055	-0.000076	-0.000092
Wandin Yallock GMA	NA	NA	NA	NA	NA	NA	NA	NA
Warrion WSPA	-0.000220	-0.000157	-0.000235	-0.000366	-0.000484	-0.000418	-0.000554	-0.000720
West Goulburn GMA	-0.000020	-0.000015	-0.000025	-0.000029	-0.000027	-0.000017	-0.000036	-0.000050
Wy Yung GMA	-0.000089	-0.000061	-0.000093	-0.000119	-0.000065	-0.000131	-0.000180	-0.000219

GMU	Relationship between change in elevation of the watertable at waterway GDEs and groundwater use by GMU coefficient of use (C) in <i>Change in groundwater elevation (m) = C*use (ML/yr) + 0</i>							
	2021-2040				2041-2065			
	noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Yangery WSPA	-0.000006	0.000017	-0.000026	-0.000079	-0.000050	-0.000058	-0.000115	-0.000182

CDM SMITH AUSTRALIA

1/30 Wangaratta Street
Richmond VIC 3121
australia@cdmsmith.com

Review of Groundwater Sustainable Yield: Unconfined and Semi-confined Aquifers

APPENDICES PART 5 (PP to SS) | 11 August 2025

Appendices

PREPARED FOR:

Department of Energy, Environment
and Climate Action

Melbourne, VIC

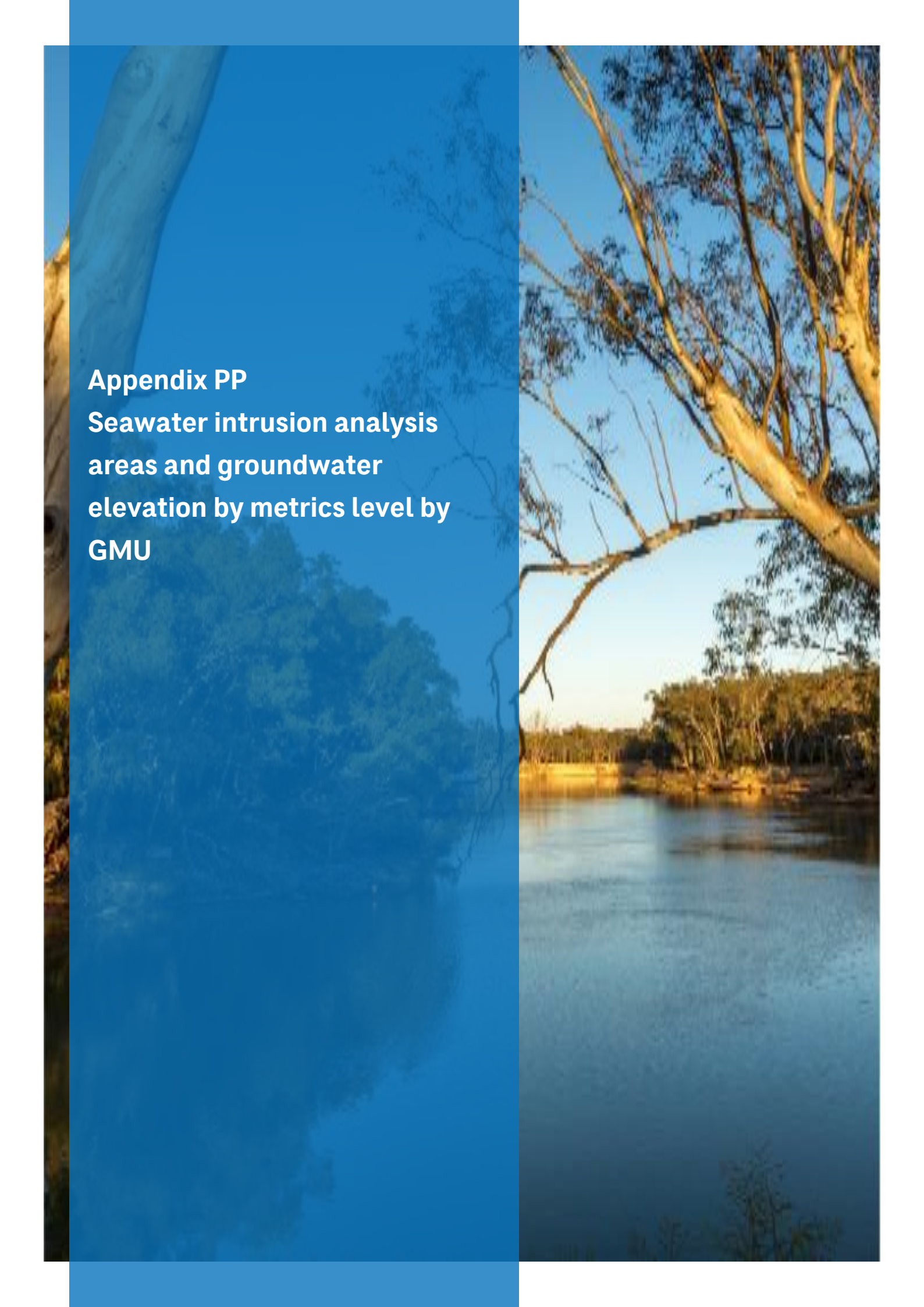
**CDM
Smith**
listen. think. deliver.

Appendix PP Seawater intrusion analysis areas and groundwater elevation by metrics level by GMU 3

Appendix QQ Synthesis information by GMU – Seawater intrusion 158

Appendix RR Summary of change in groundwater elevation for GMUs – Seawater intrusion 173

Appendix SS Use-elevation relationships for coastal GMU areas 183



Appendix PP
Seawater intrusion analysis
areas and groundwater
elevation by metrics level by
GMU

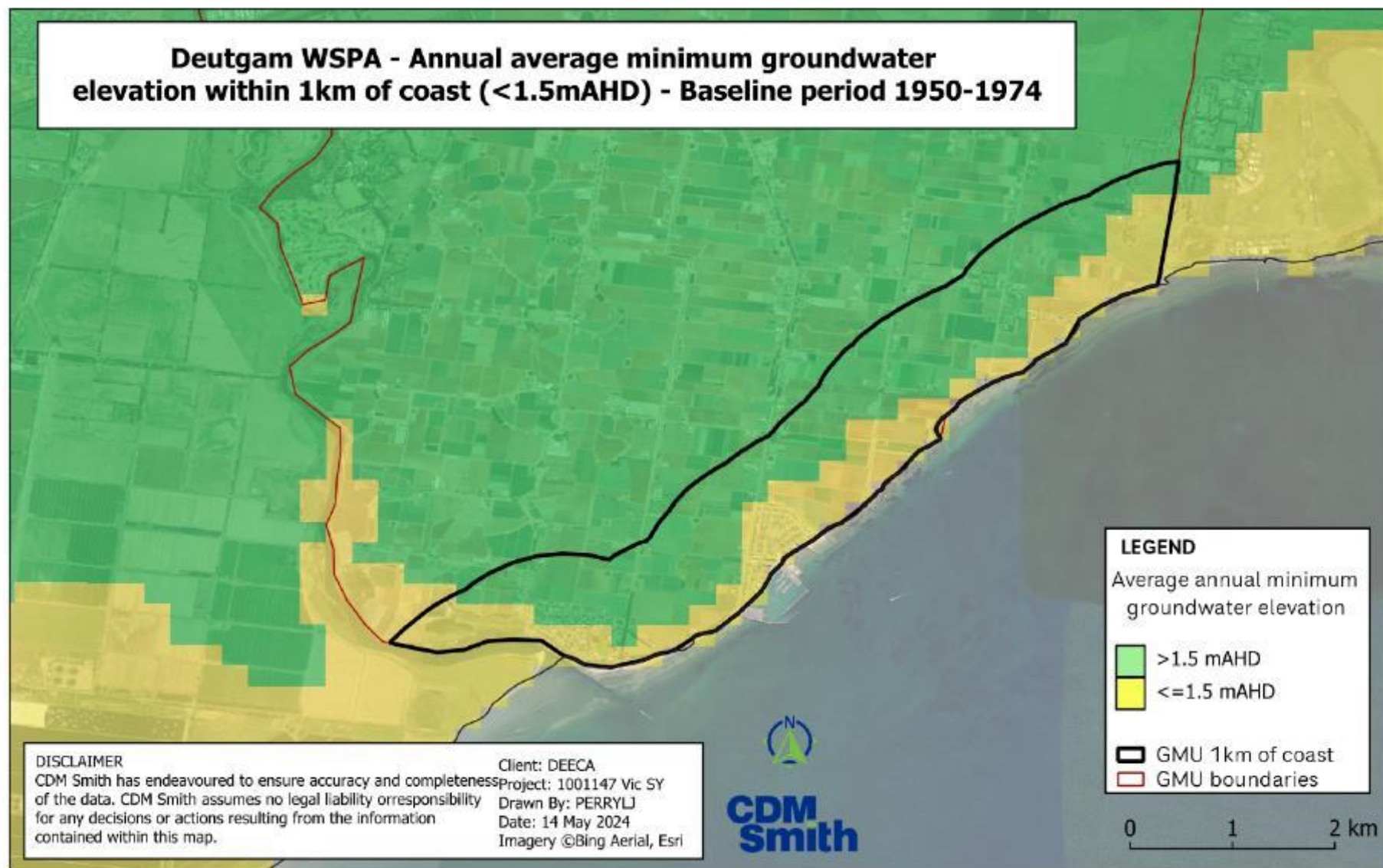


Figure PP-1 Seawater intrusion analysis area for the Deutgam WSPA - Baseline 1950-1974.

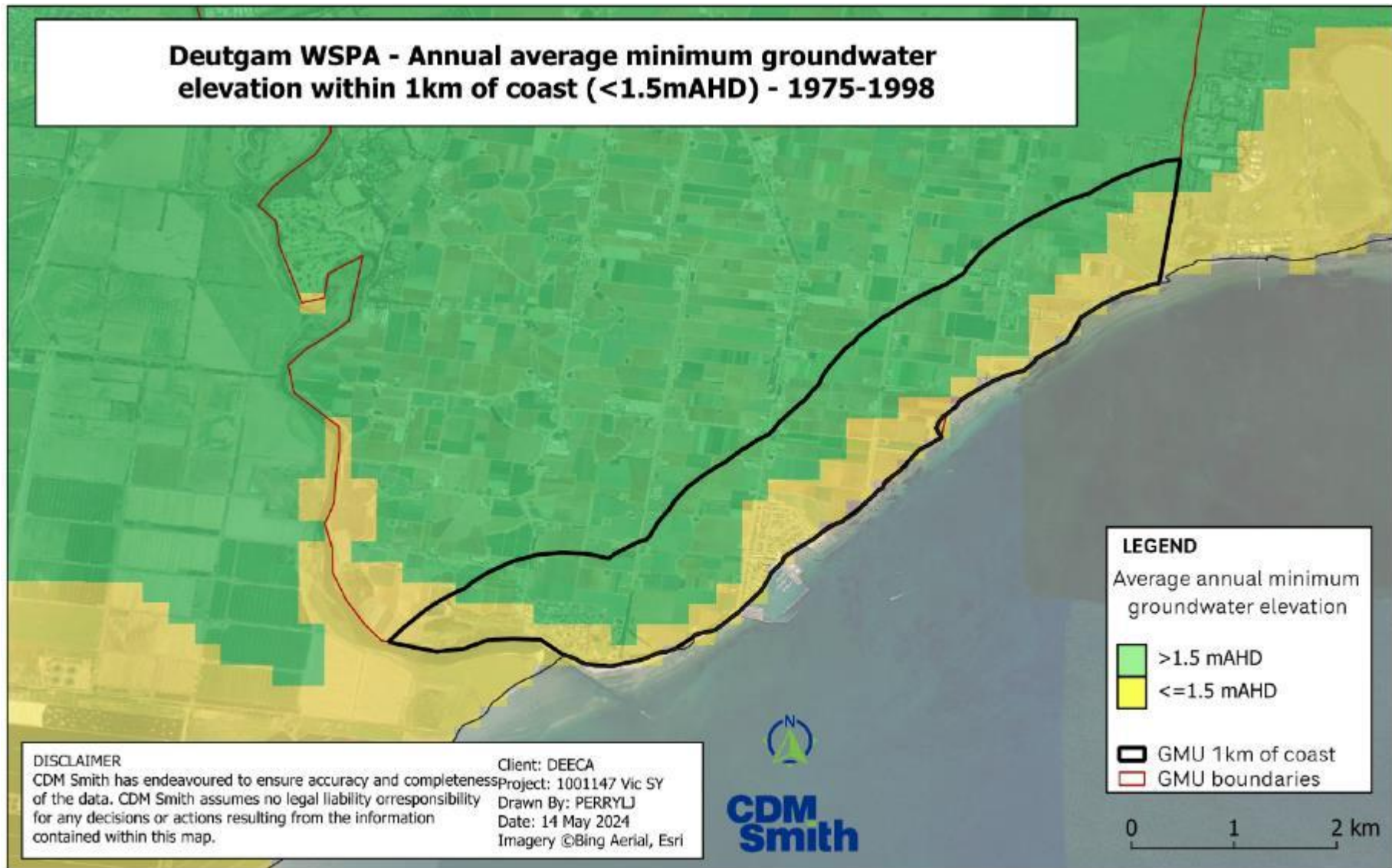


Figure PP-2 Seawater intrusion analysis area for the Deutgam WSPA - 1975-1997.

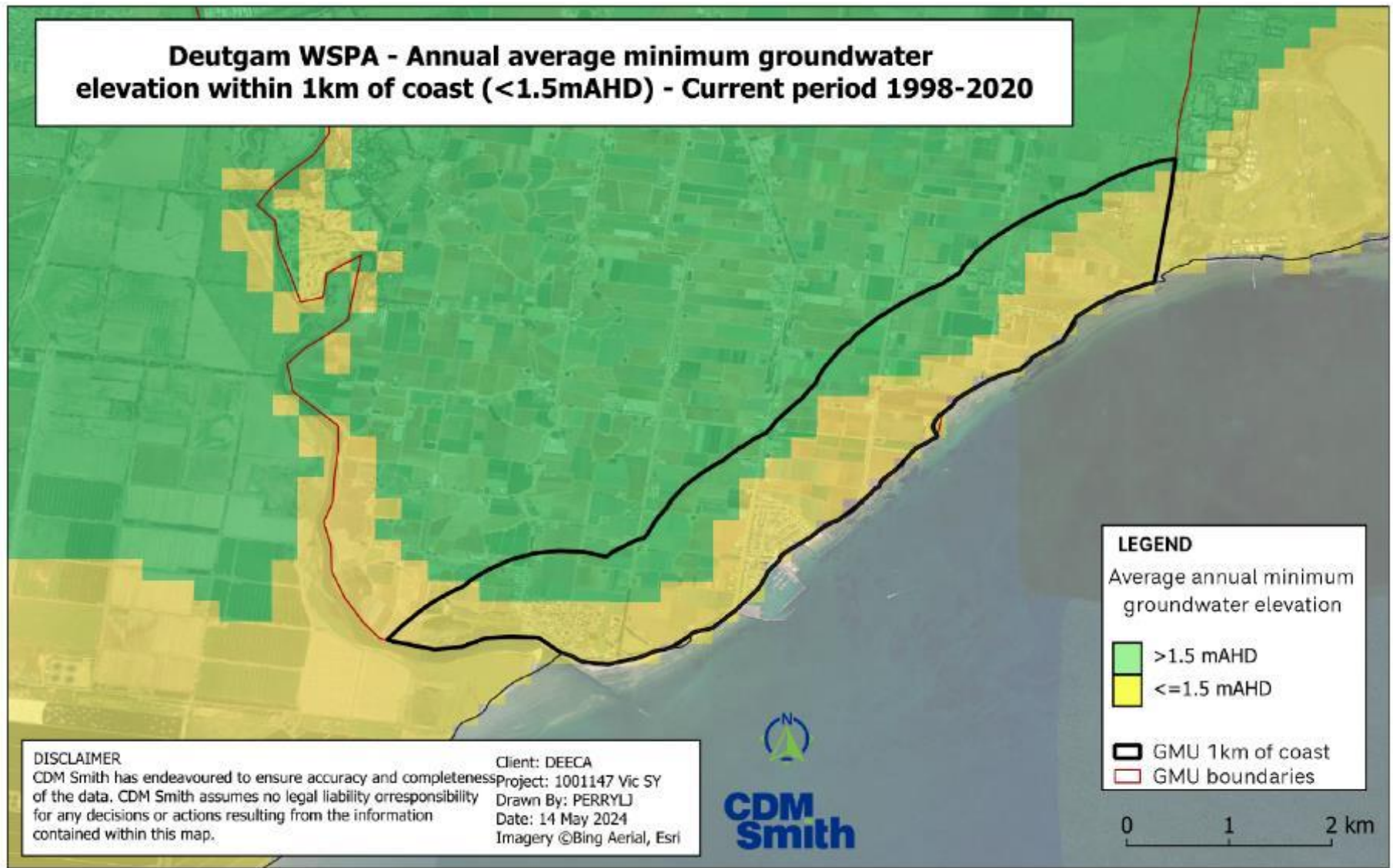


Figure PP-3 Seawater intrusion analysis area for the Deutgam WSPA - 1998-2020.

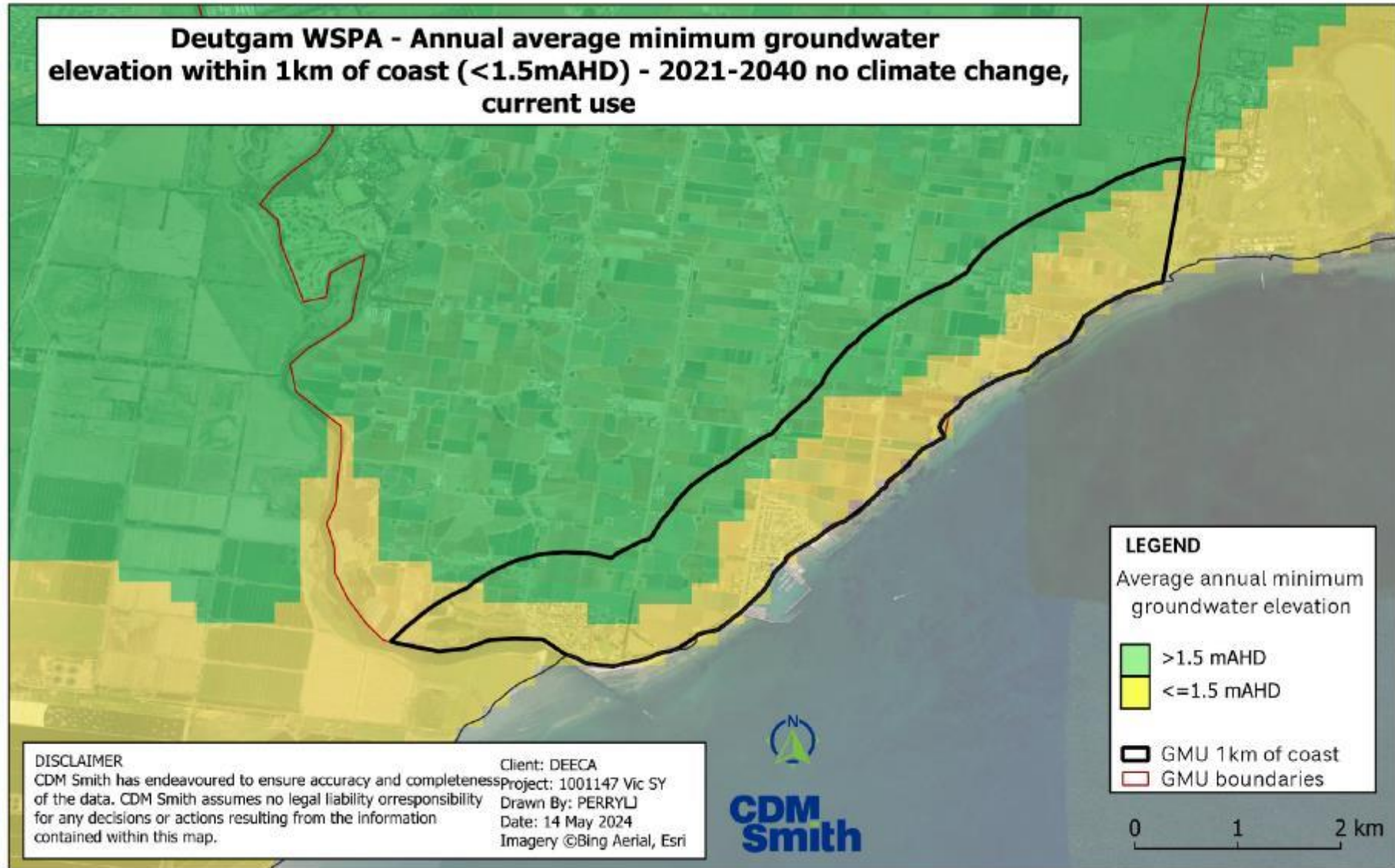


Figure PP-4 Seawater intrusion analysis area for the Deutgam WSPA- 2021-2040 no climate change and current groundwater use.

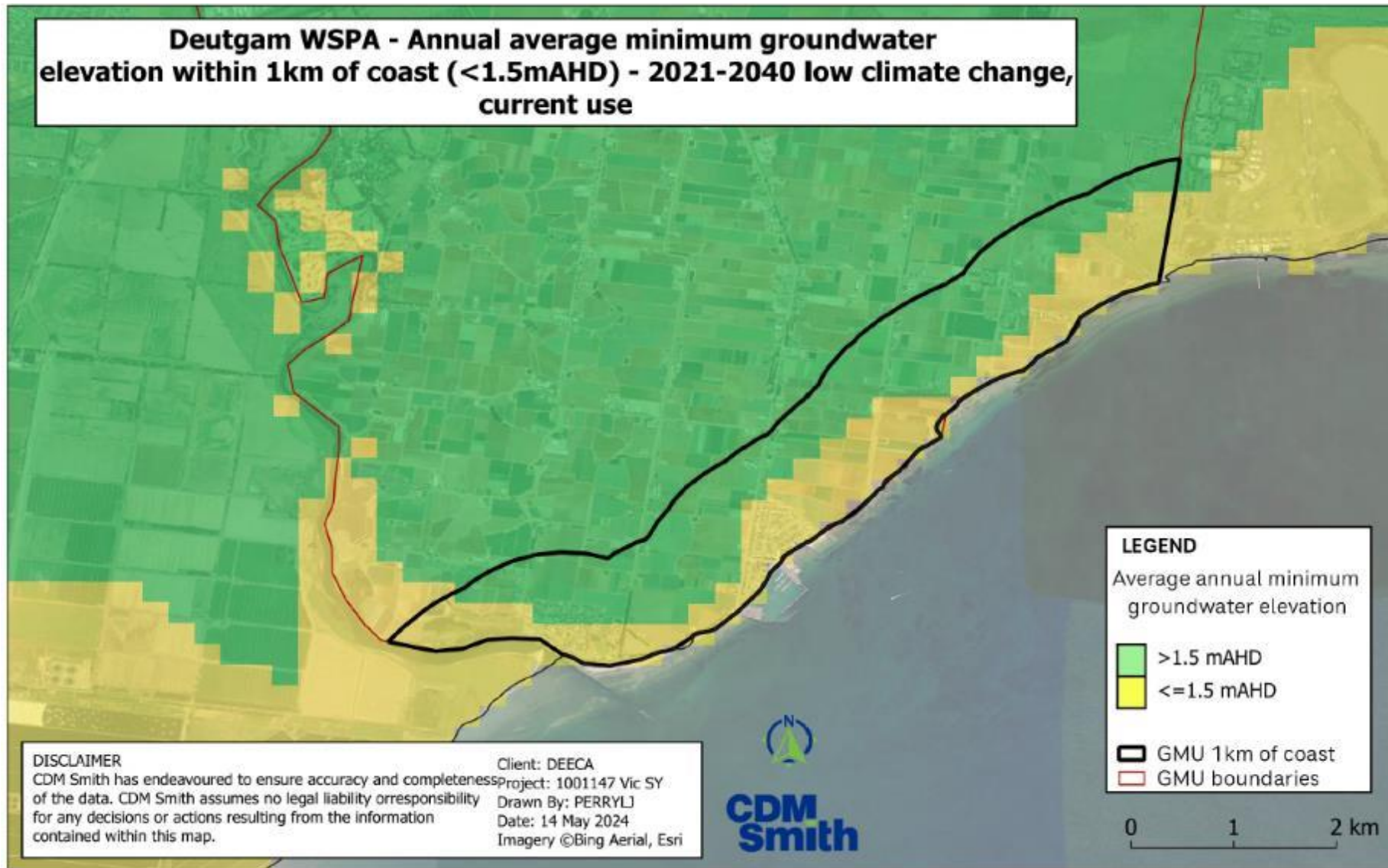


Figure PP-5 Seawater intrusion analysis area for the Deutgam WSPA- 2021-2040 low climate change and current groundwater use.

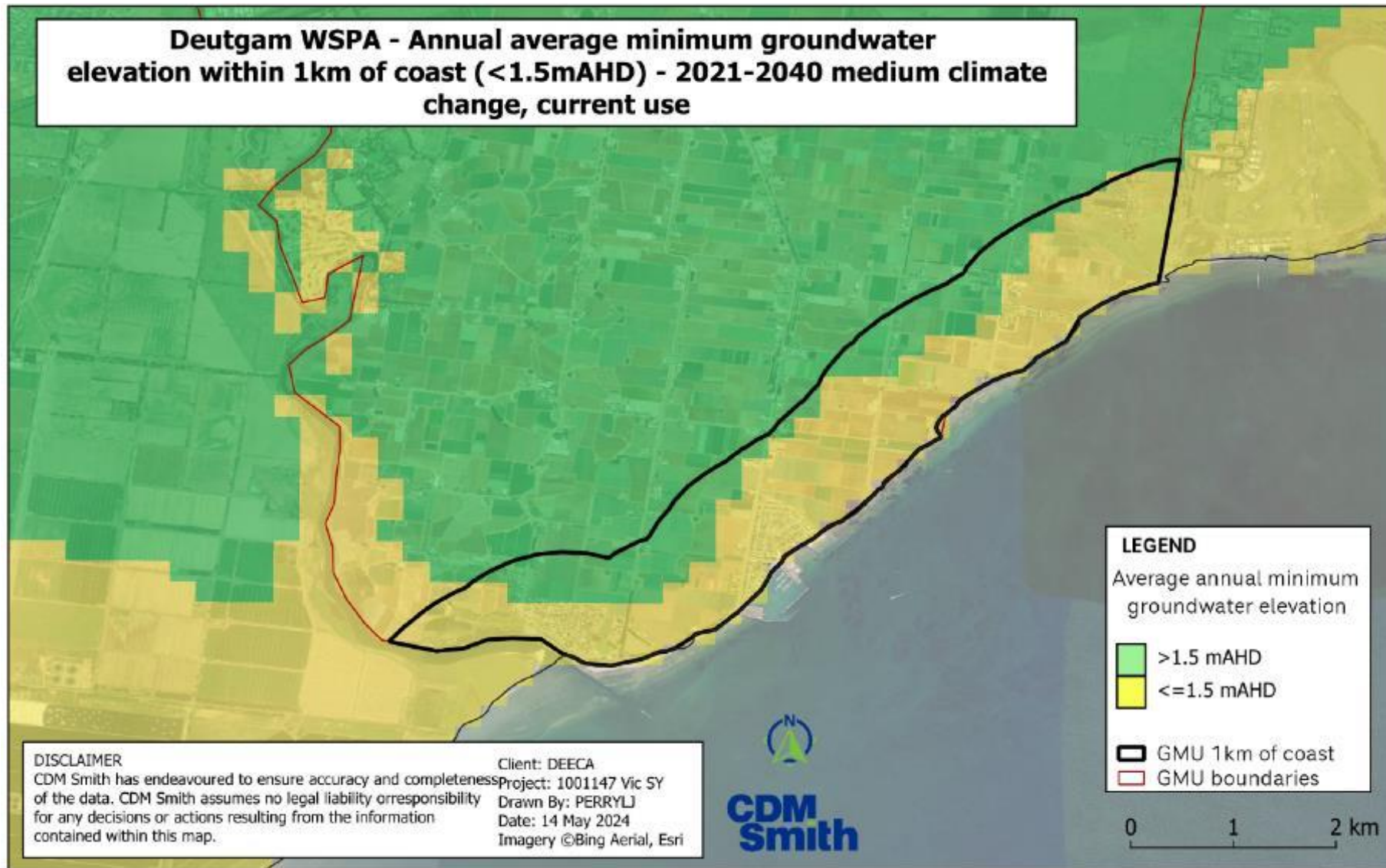


Figure PP-6 Seawater intrusion analysis area for the Deutgam WSPA- 2021-2040 medium climate change and current groundwater use.

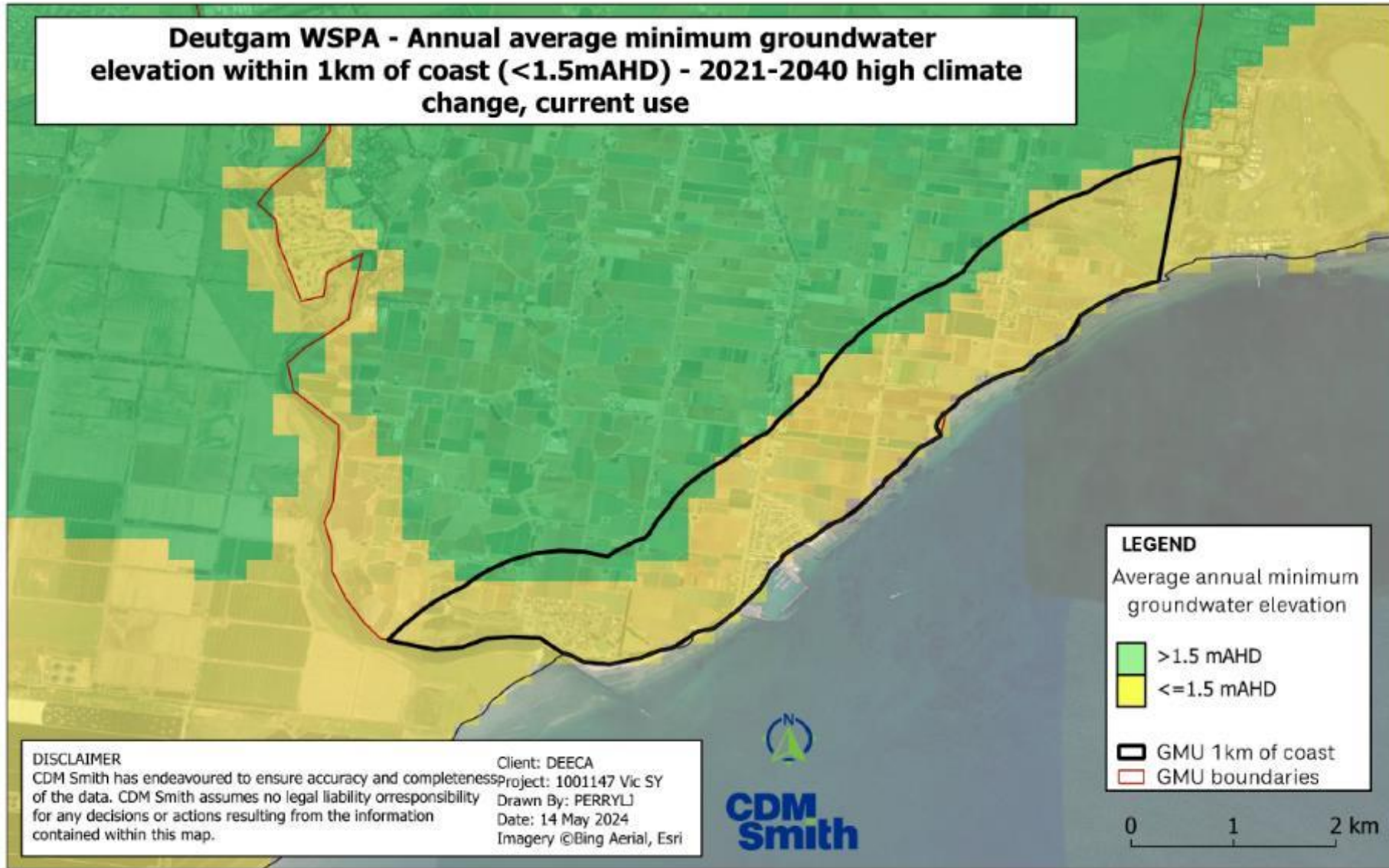


Figure PP-7 Seawater intrusion analysis area for the Deutgam WSPA - 2021-2040 high climate change and current groundwater use.

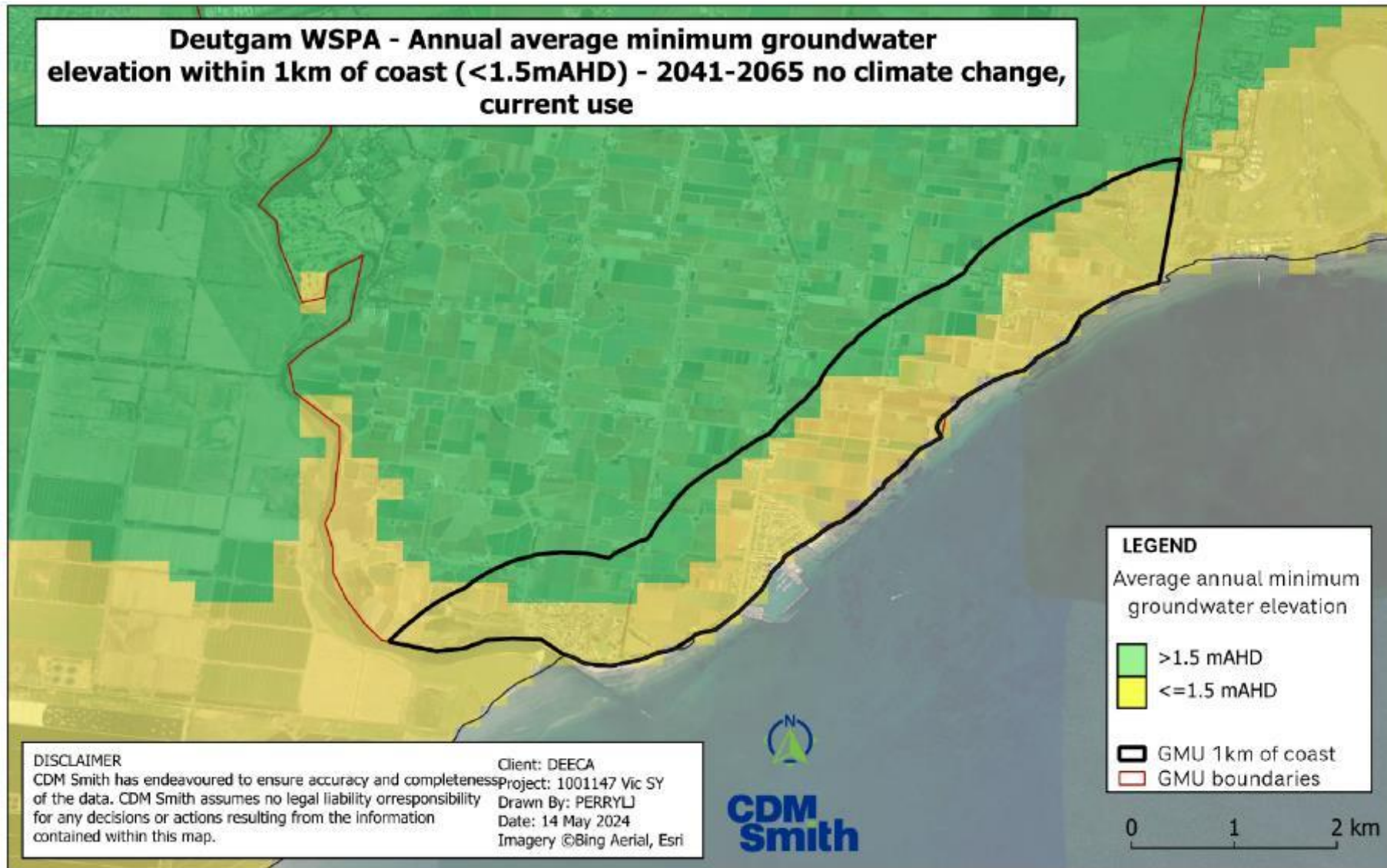


Figure PP-8 Seawater intrusion analysis area for the Deutgam WSPA - 2041-2065 no climate change and current groundwater use.

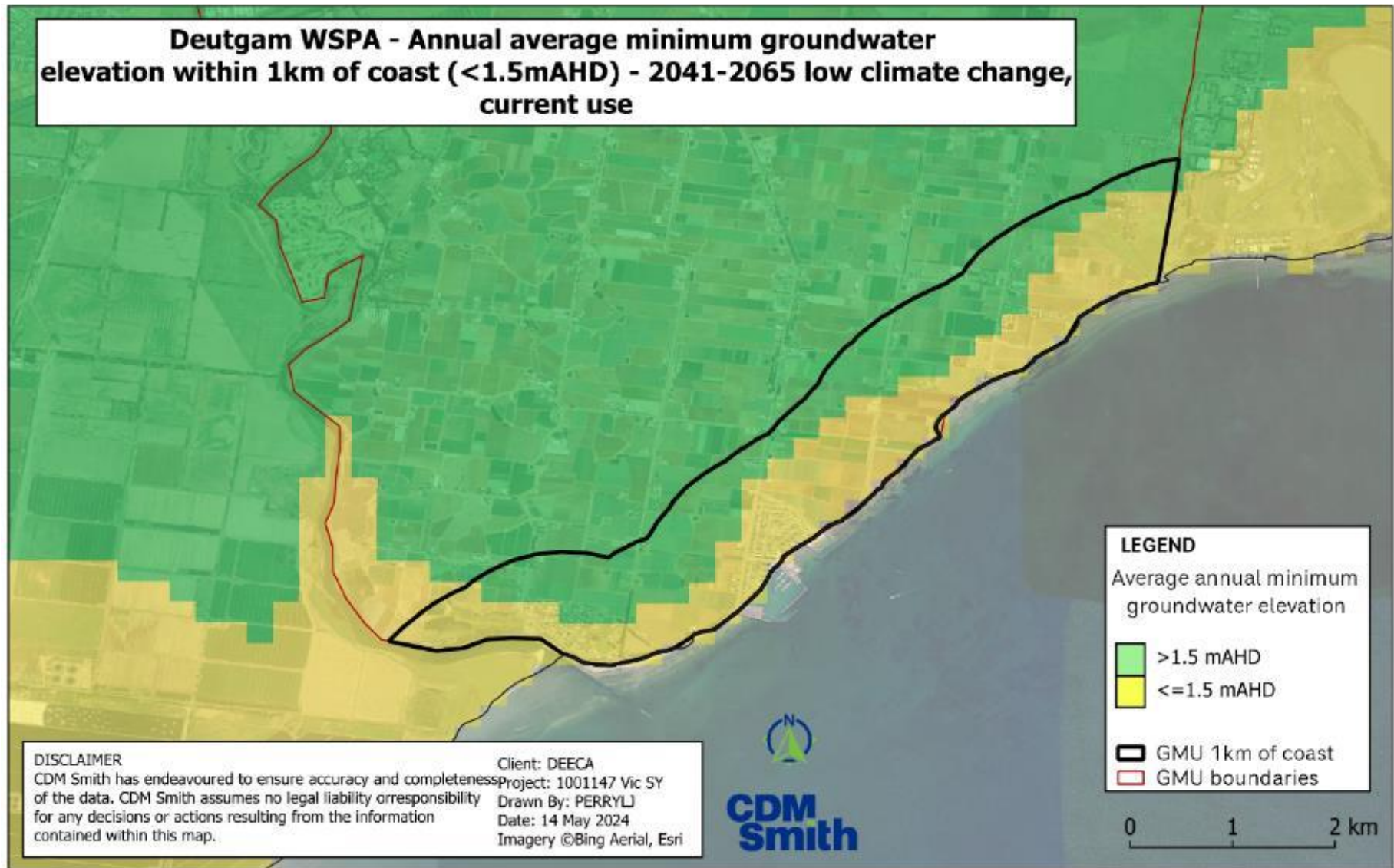


Figure PP-9 Seawater intrusion analysis area for the Deutgam WSPA 2041-2065 low climate change and current groundwater use.

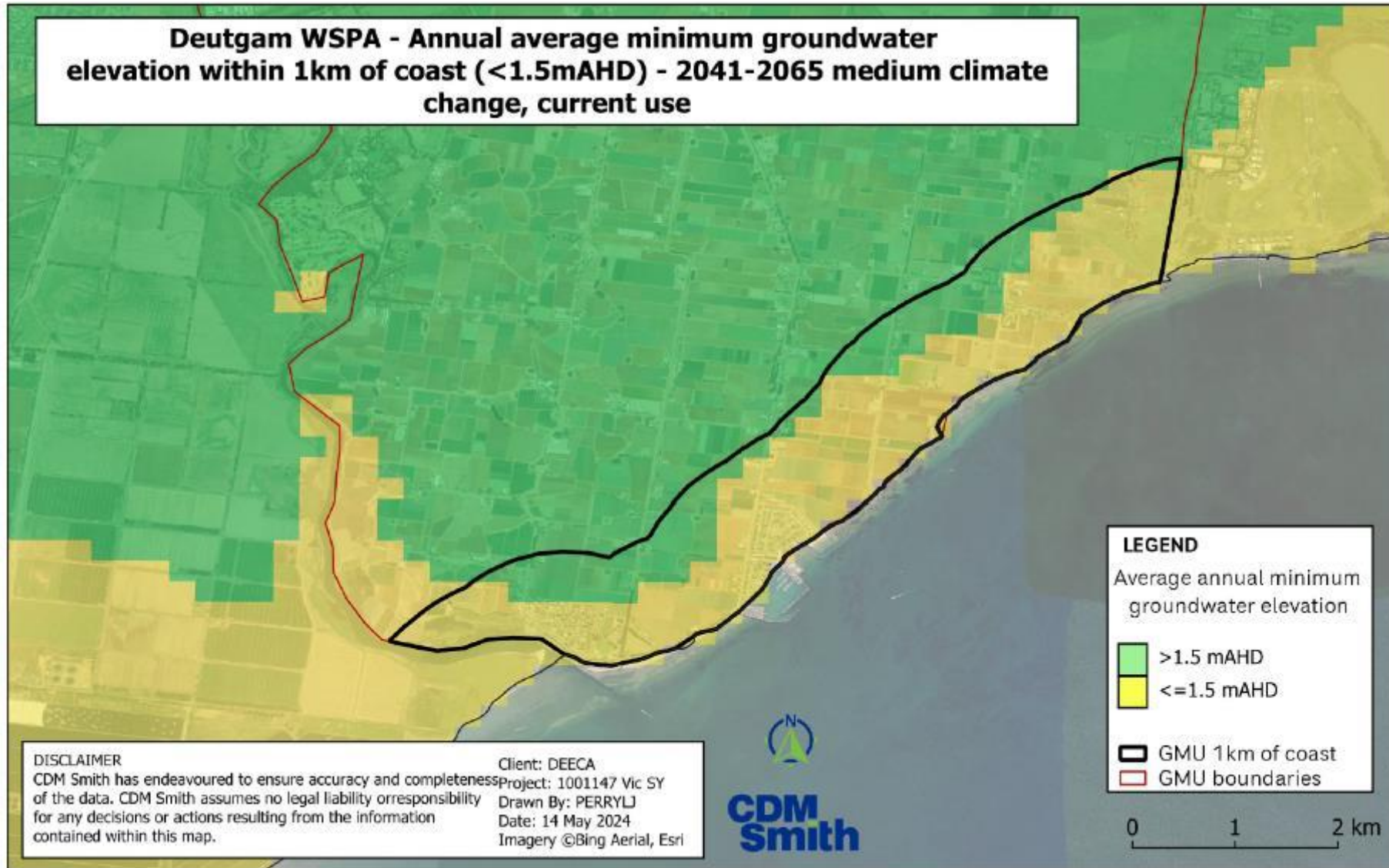


Figure PP-10 Seawater intrusion analysis area for the Deutgam WSPA - 2041-2065 medium climate change and current groundwater use.

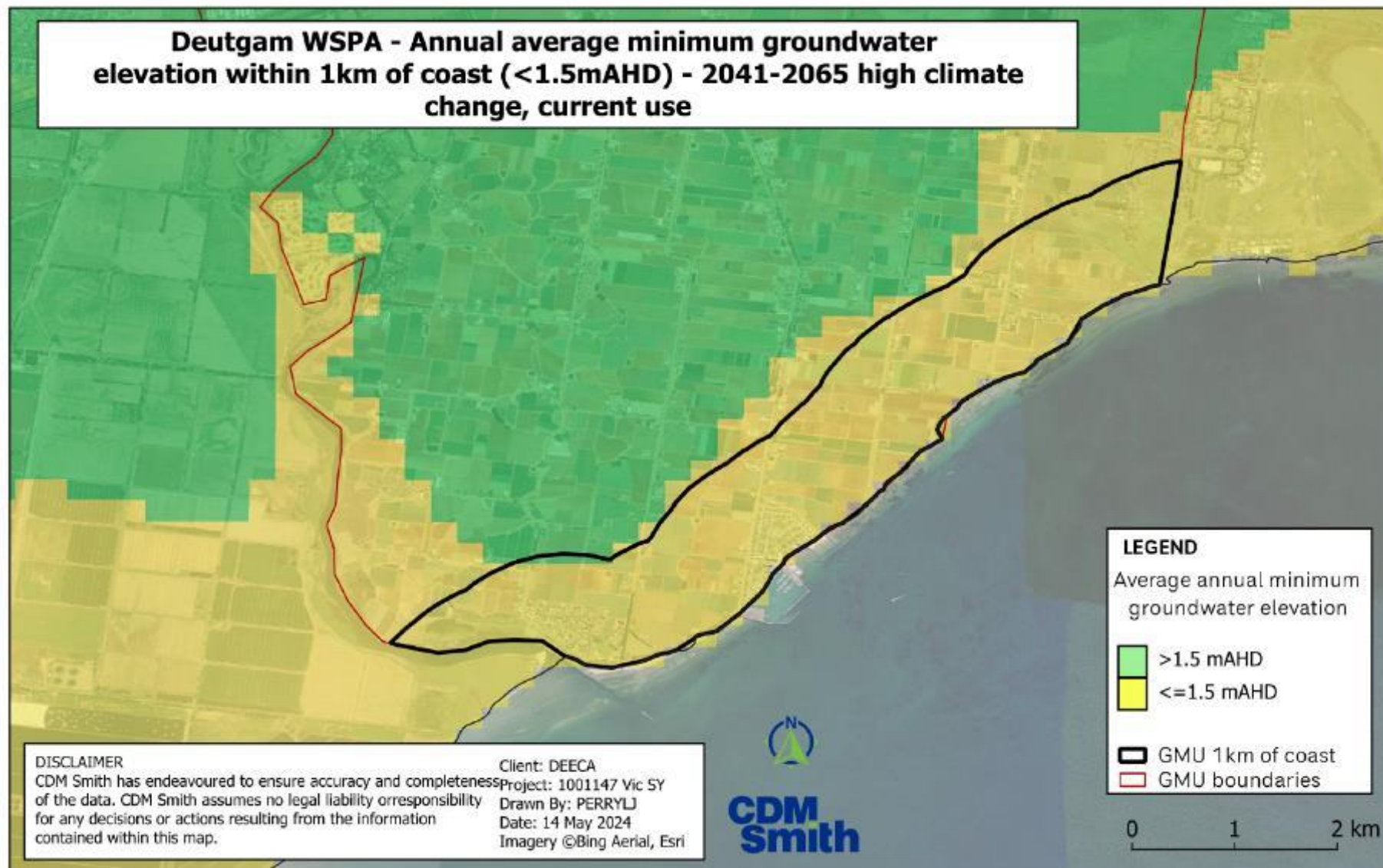


Figure PP-11 Seawater intrusion analysis area for the Deutgam WSPA- 2041-2065 high climate change and current groundwater use.

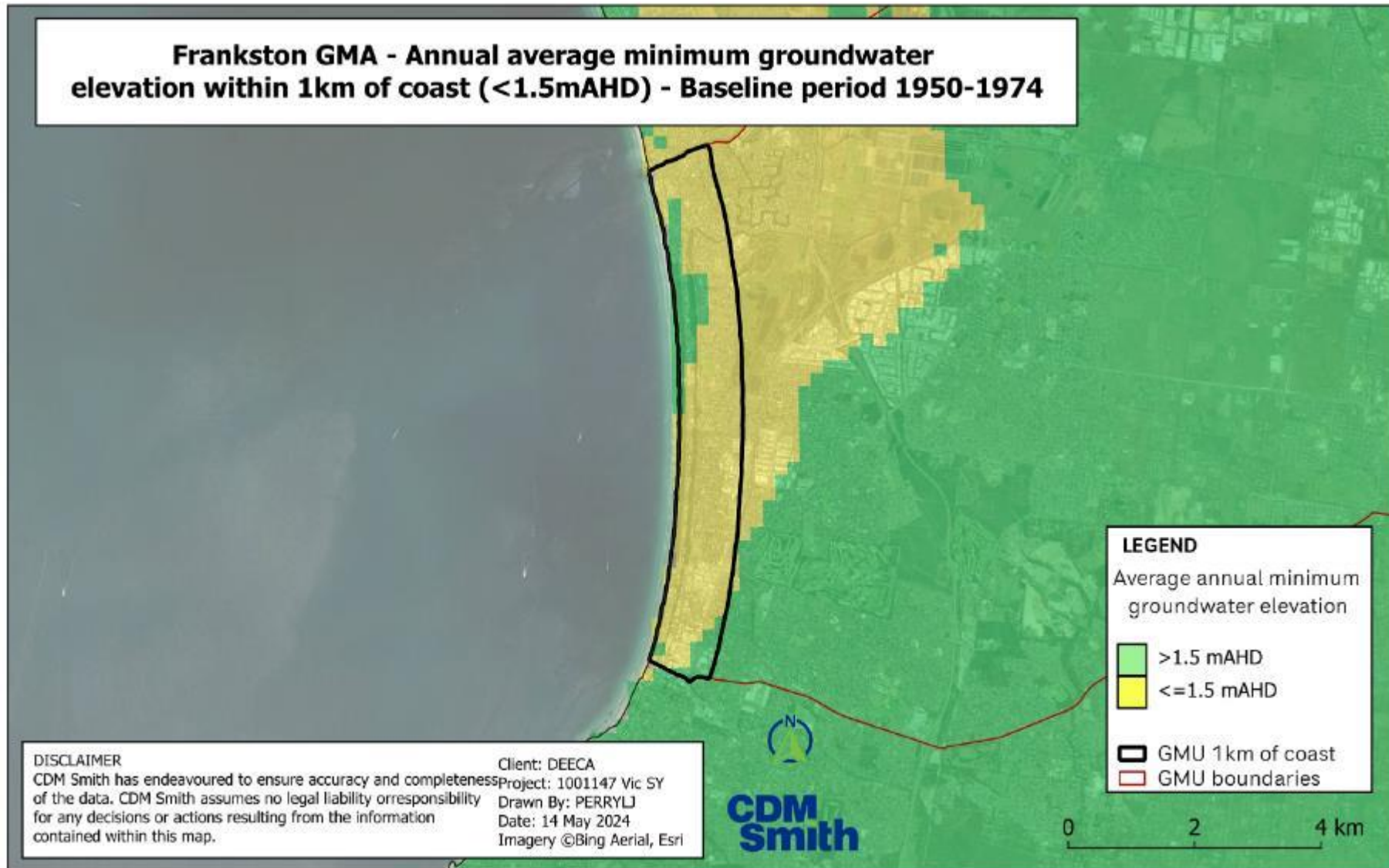


Figure PP-12 Seawater intrusion analysis area for the Frankston GMA – Baseline 1950-1974.

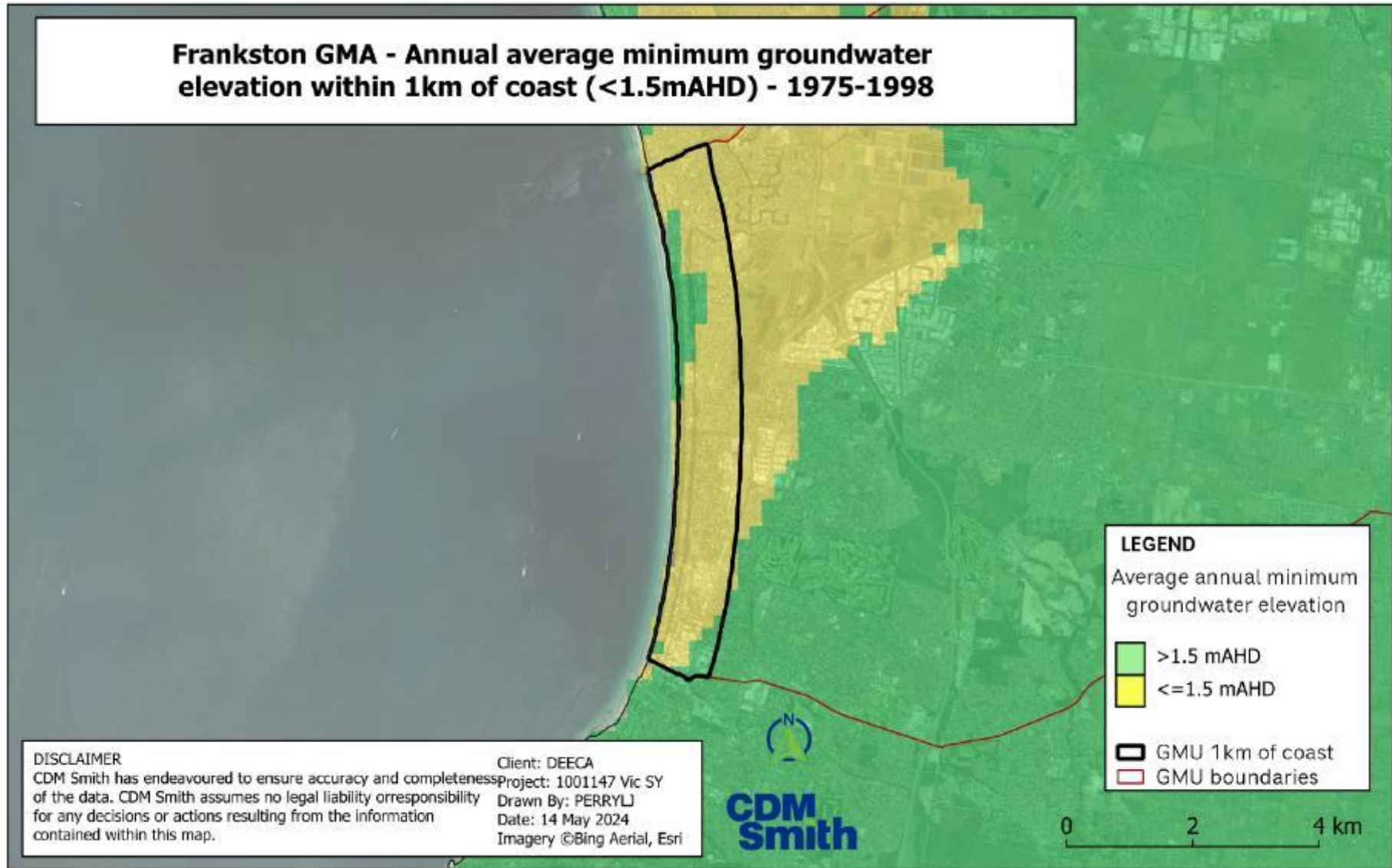


Figure PP-13 Seawater intrusion analysis area for the Frankston GMA - 1975-1997.

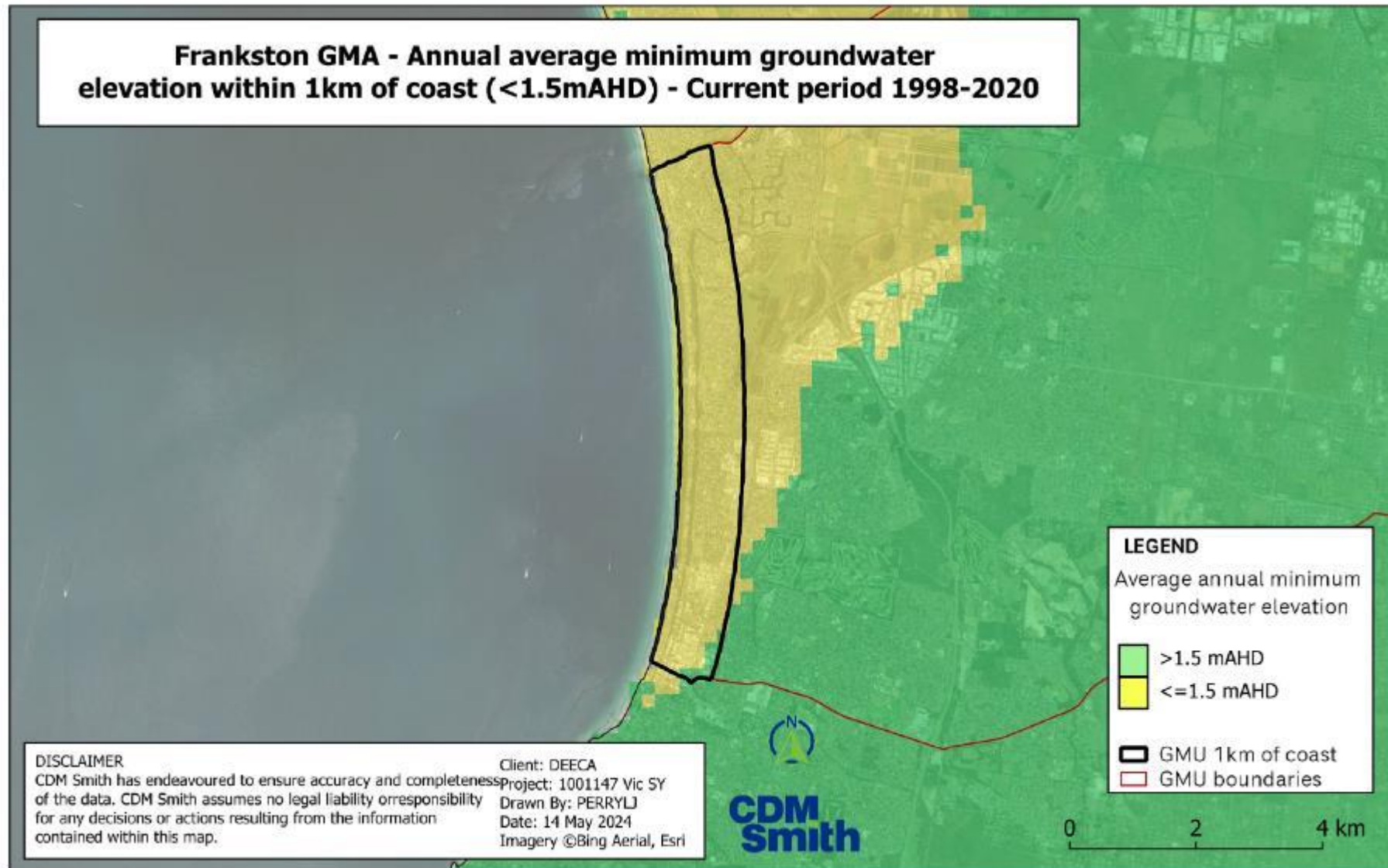


Figure PP-14 Seawater intrusion analysis area for the Frankston GMA - 1998-2020.

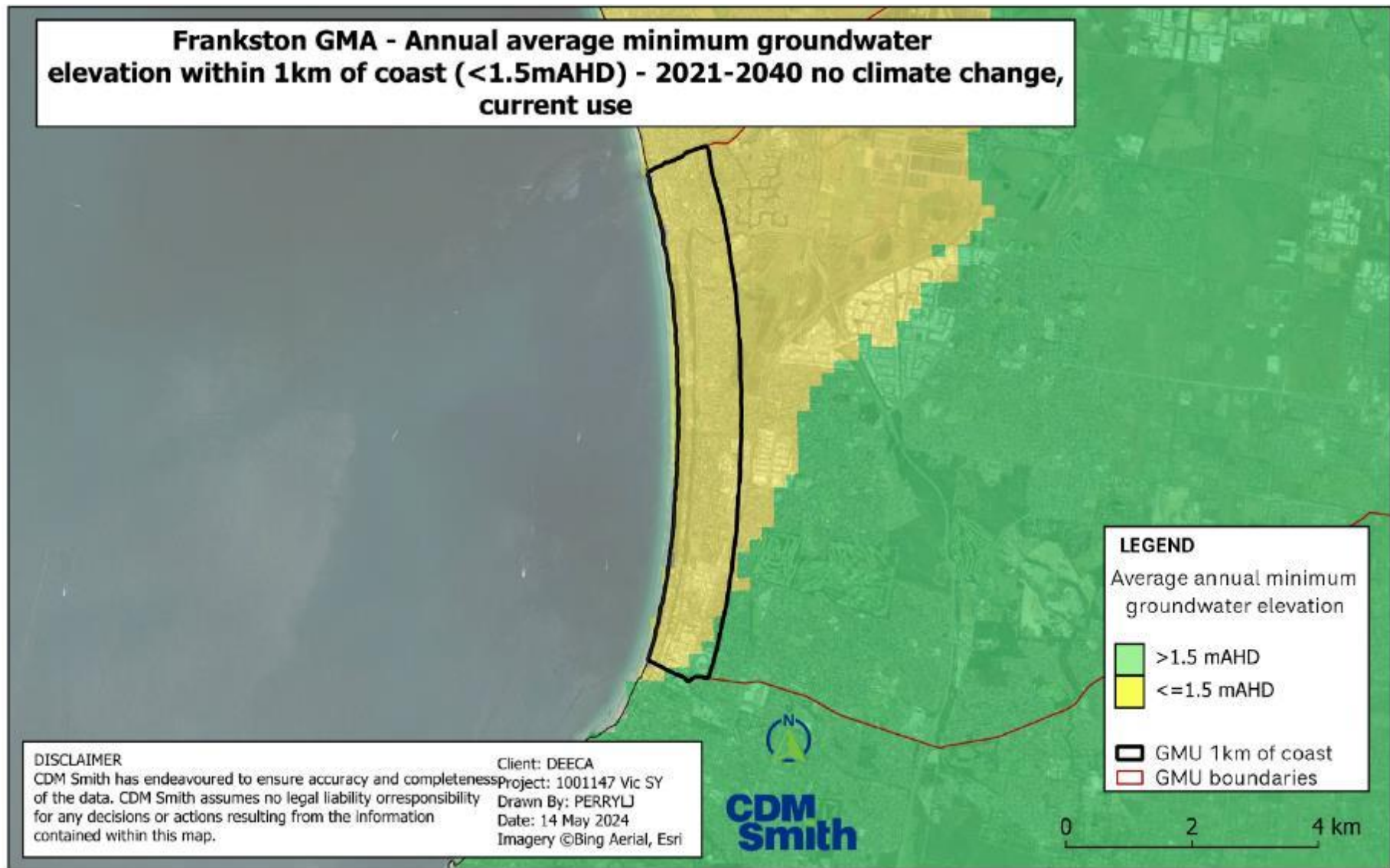


Figure PP-15 Seawater intrusion analysis area for the Frankston GMA – 2021-2040 no climate change and current groundwater use.

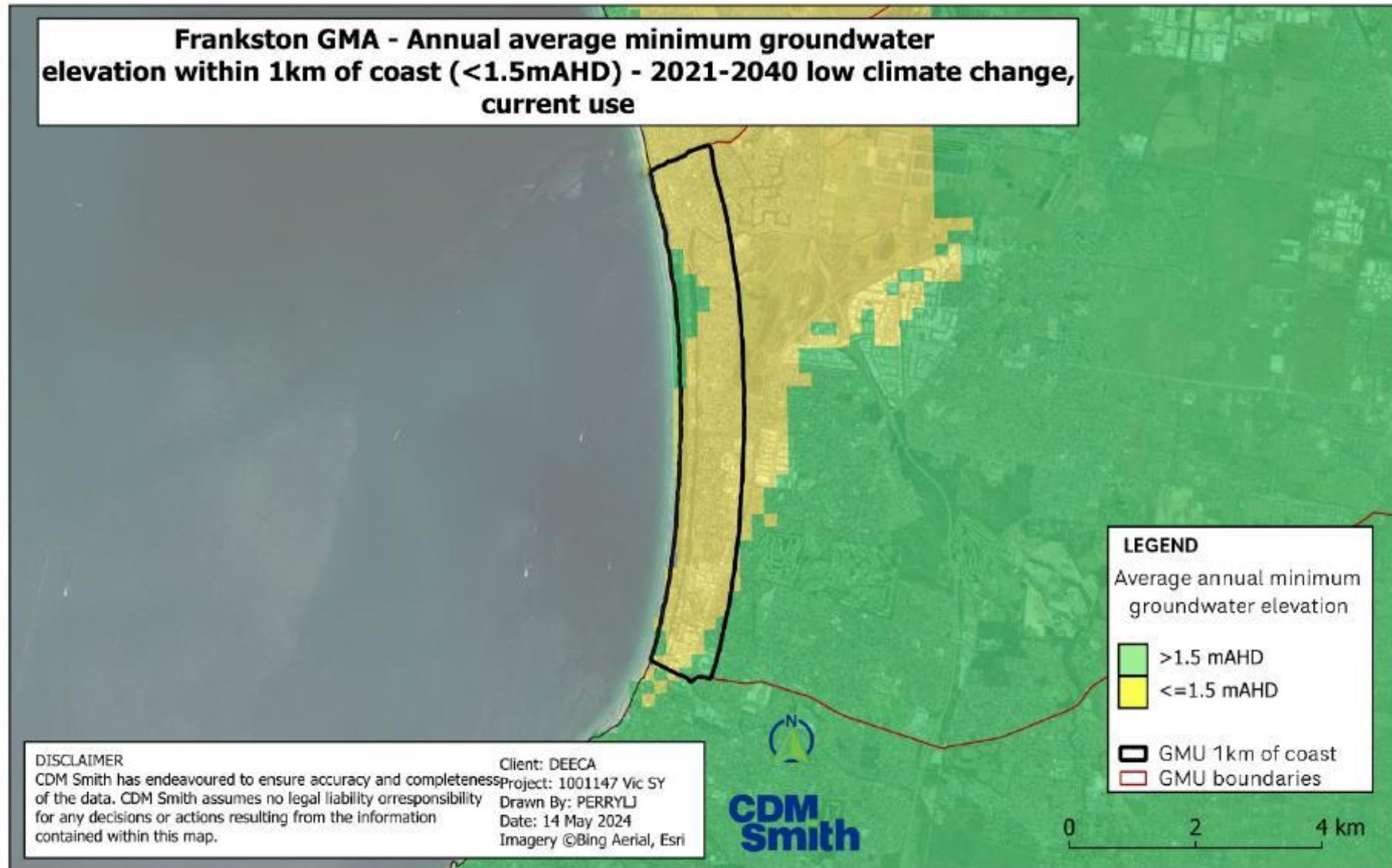


Figure PP-16 Seawater intrusion analysis area for the Frankston GMA – 2021-2040 low climate change and current groundwater use.

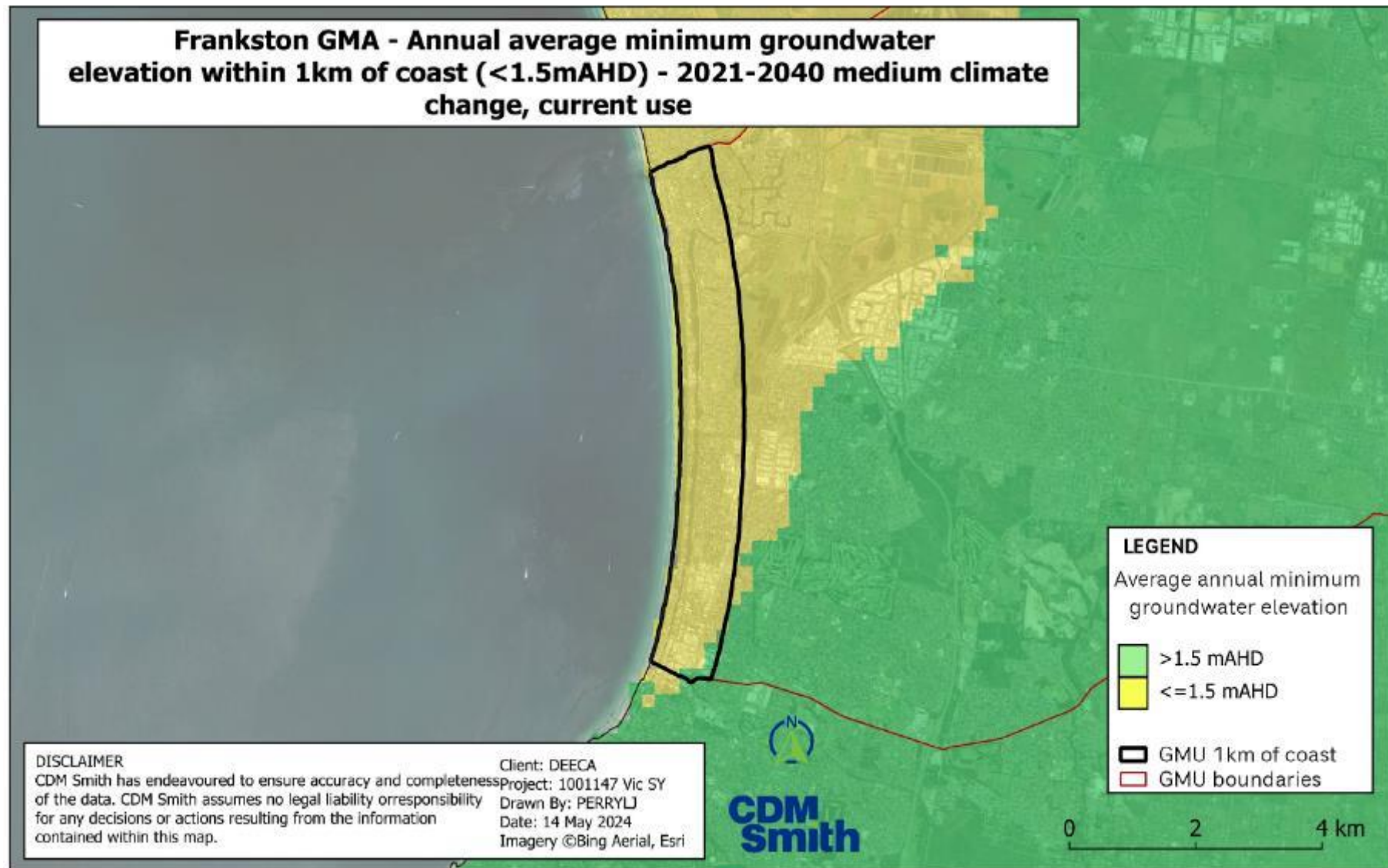


Figure PP-17 Seawater intrusion analysis area for the Frankston GMA – 2021-2040 medium climate change and current groundwater use.

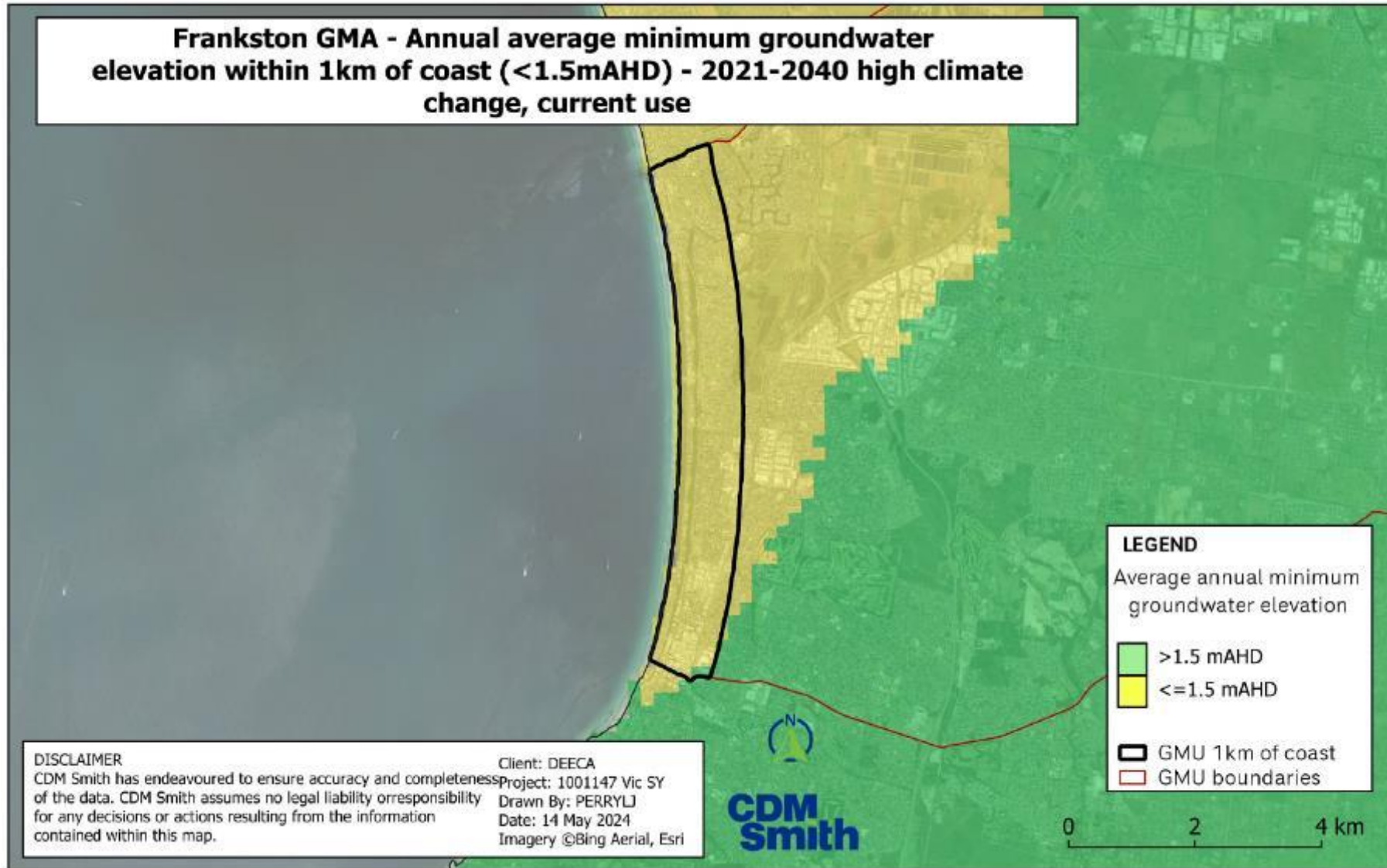


Figure PP-18 Seawater intrusion analysis area for the Frankston GMA – 2021-2040 high climate change and current groundwater use.

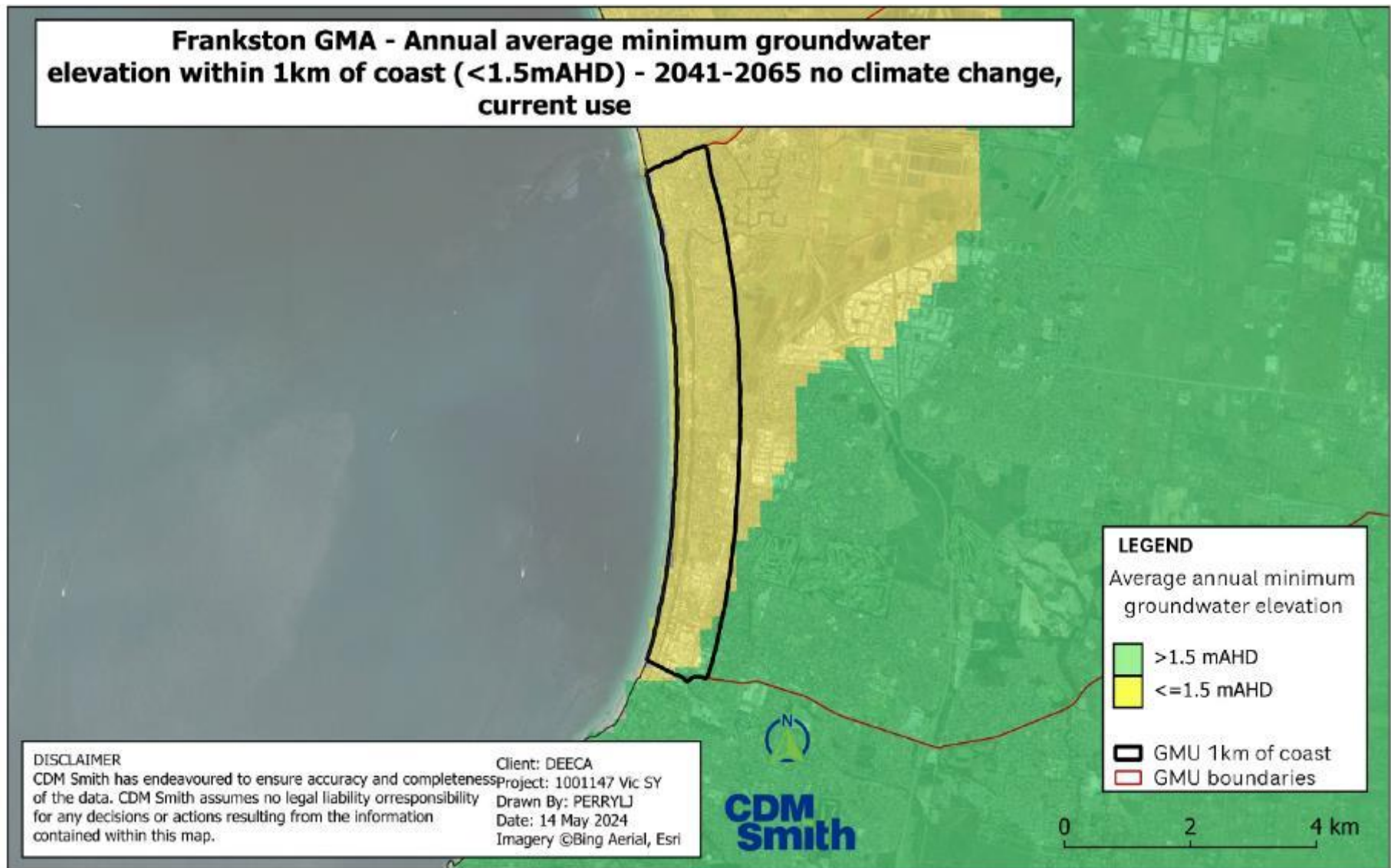


Figure PP-19 Seawater intrusion analysis area for the Frankston GMA – 2041-2065 no climate change and current groundwater use.

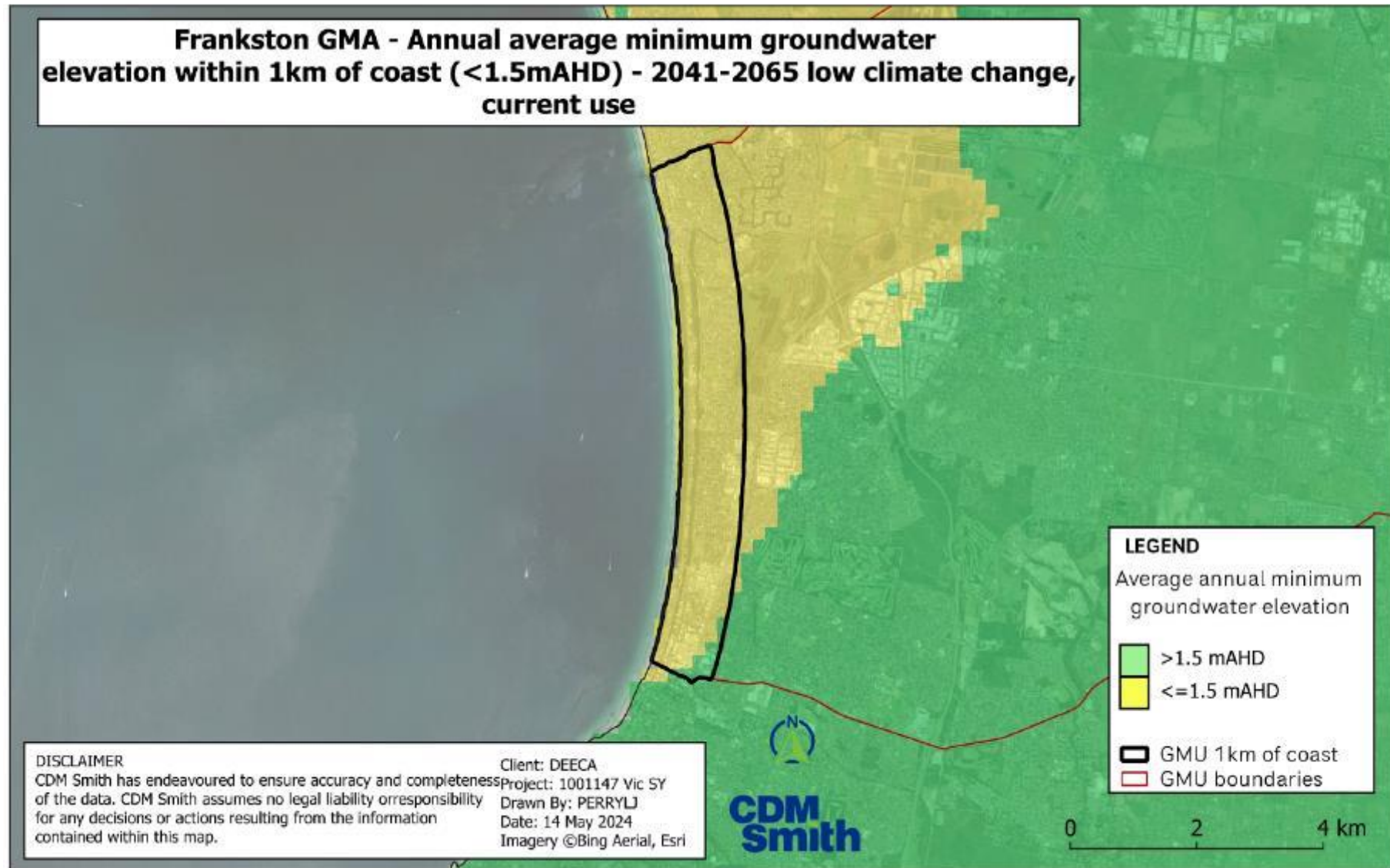


Figure PP-20 Seawater intrusion analysis area for the Frankston GMA – 2041-2065 low climate change and current groundwater use.

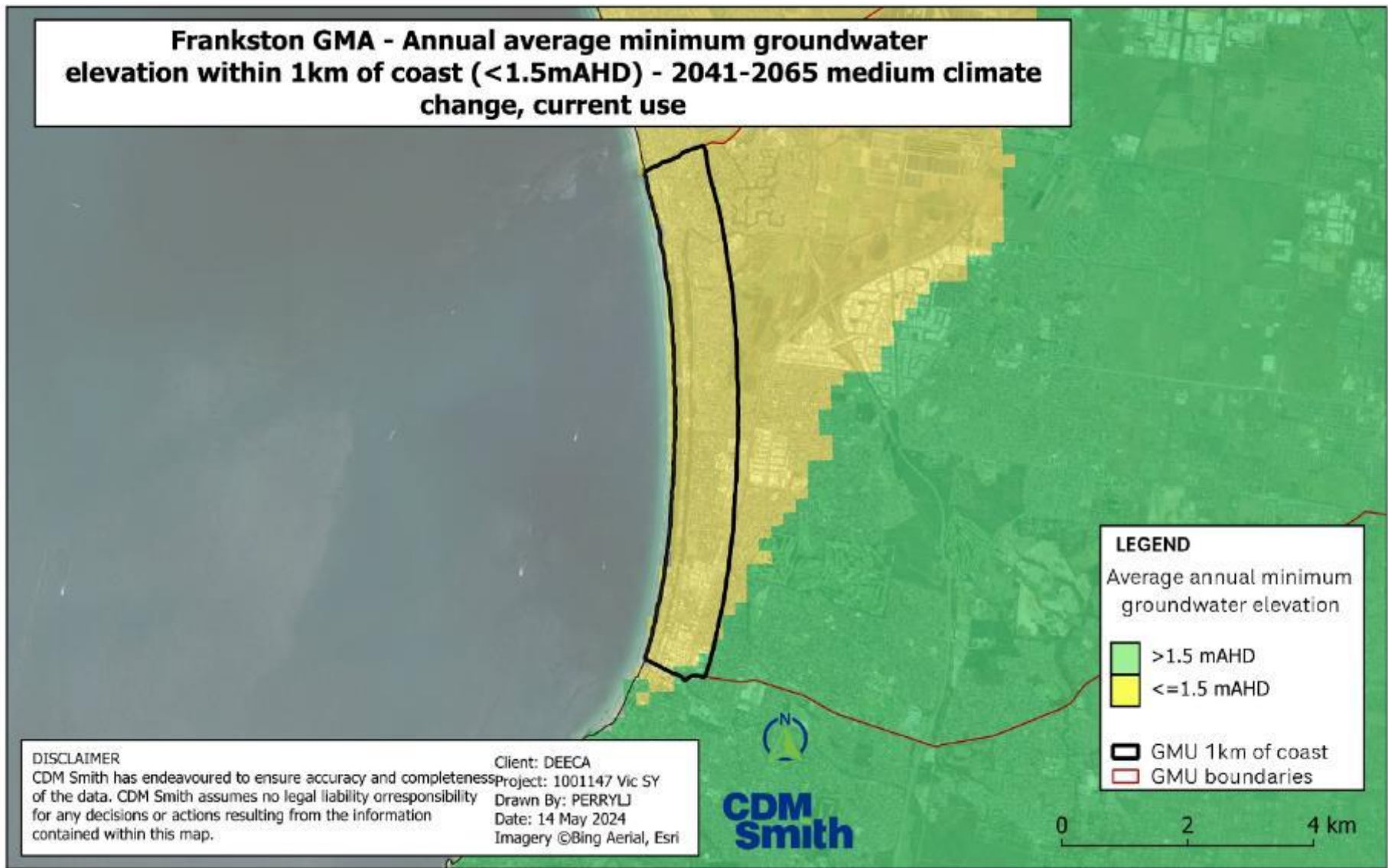


Figure PP-21 Seawater intrusion analysis area for the Frankston GMA – 2041-2065 medium climate change and current groundwater use.

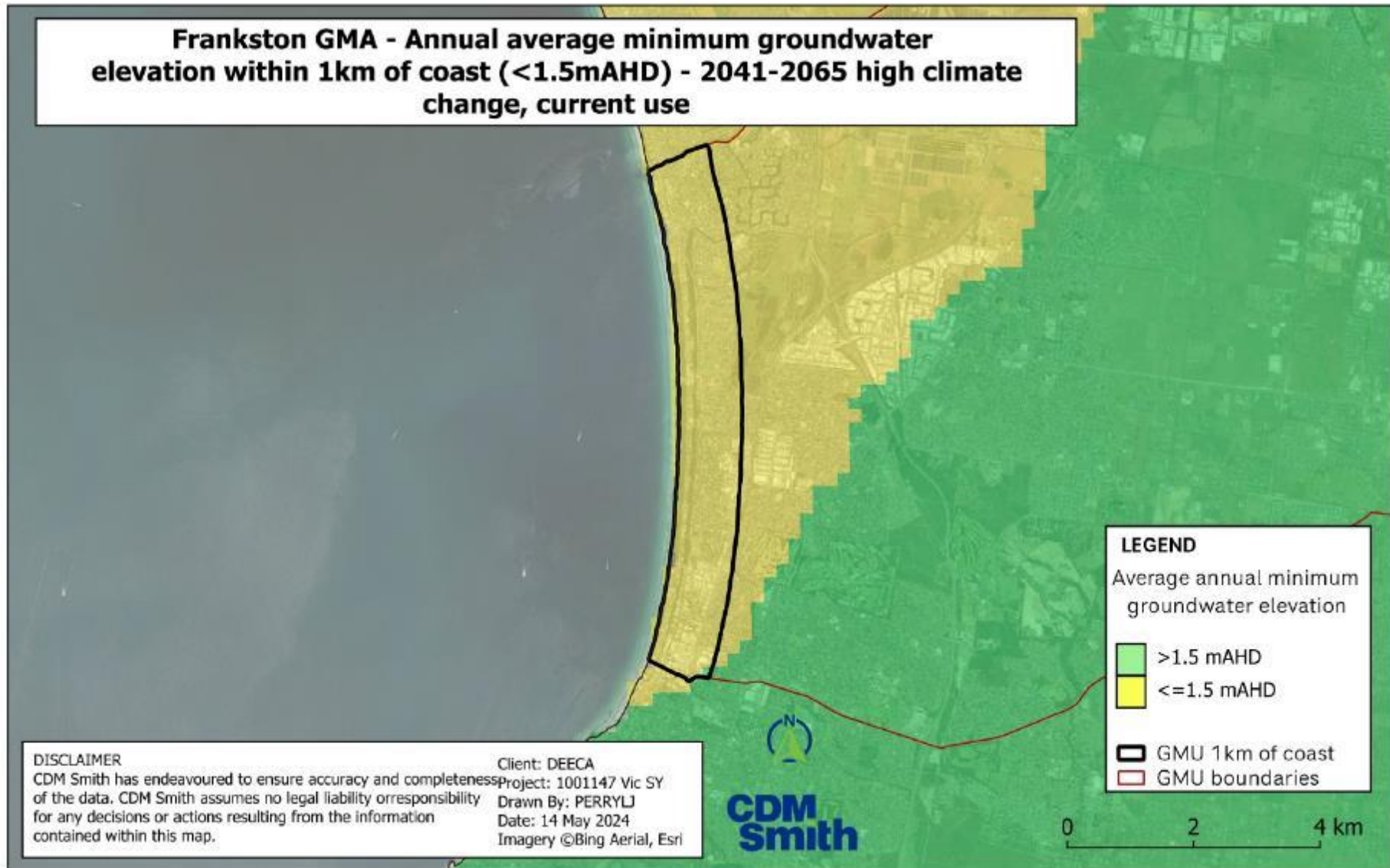


Figure PP-22 Seawater intrusion analysis area for the Frankston GMA – 2041-2065 high climate change and current groundwater use.

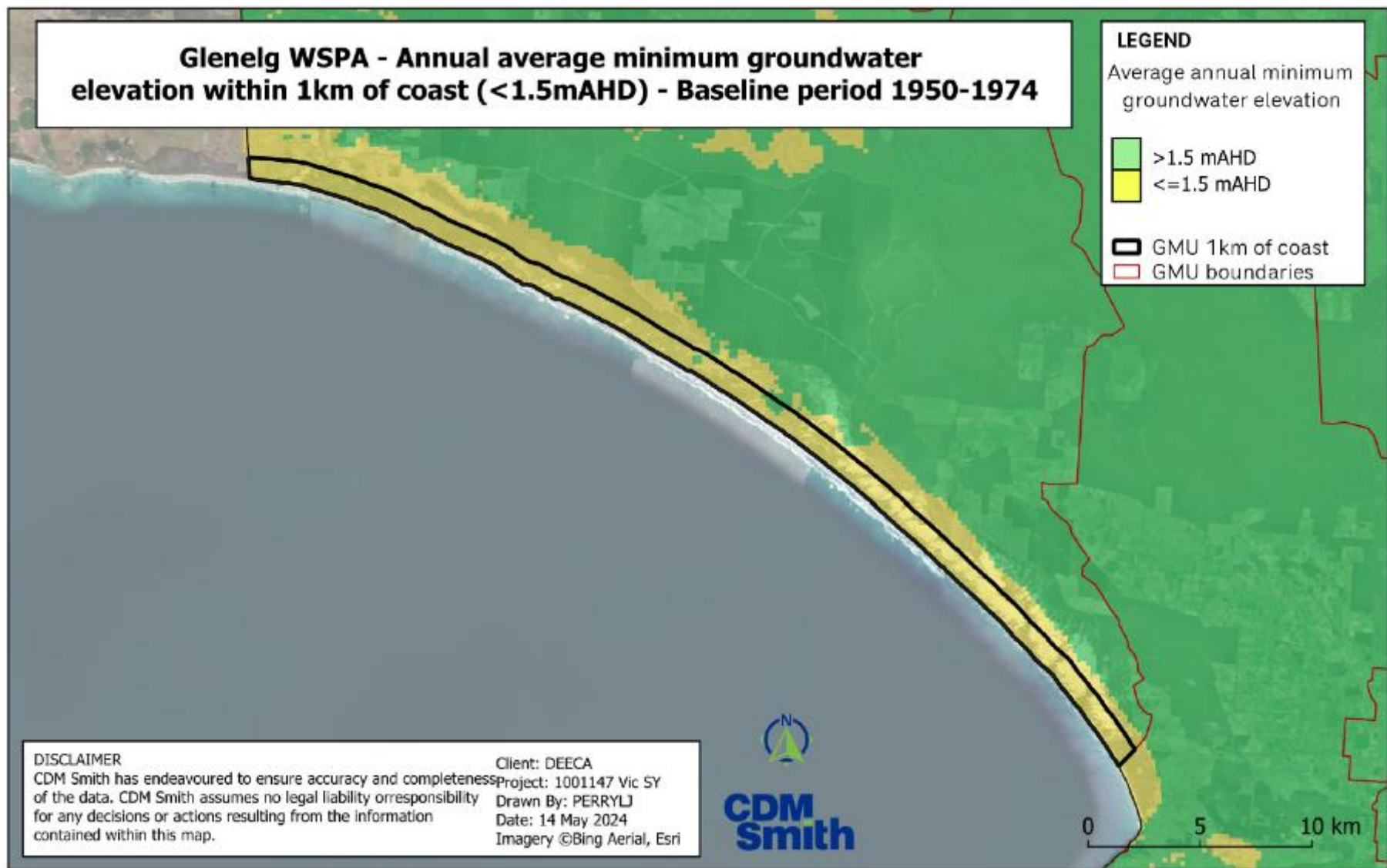


Figure PP-23 Seawater intrusion analysis area for the Glenelg GMA - Baseline 1950-1974.

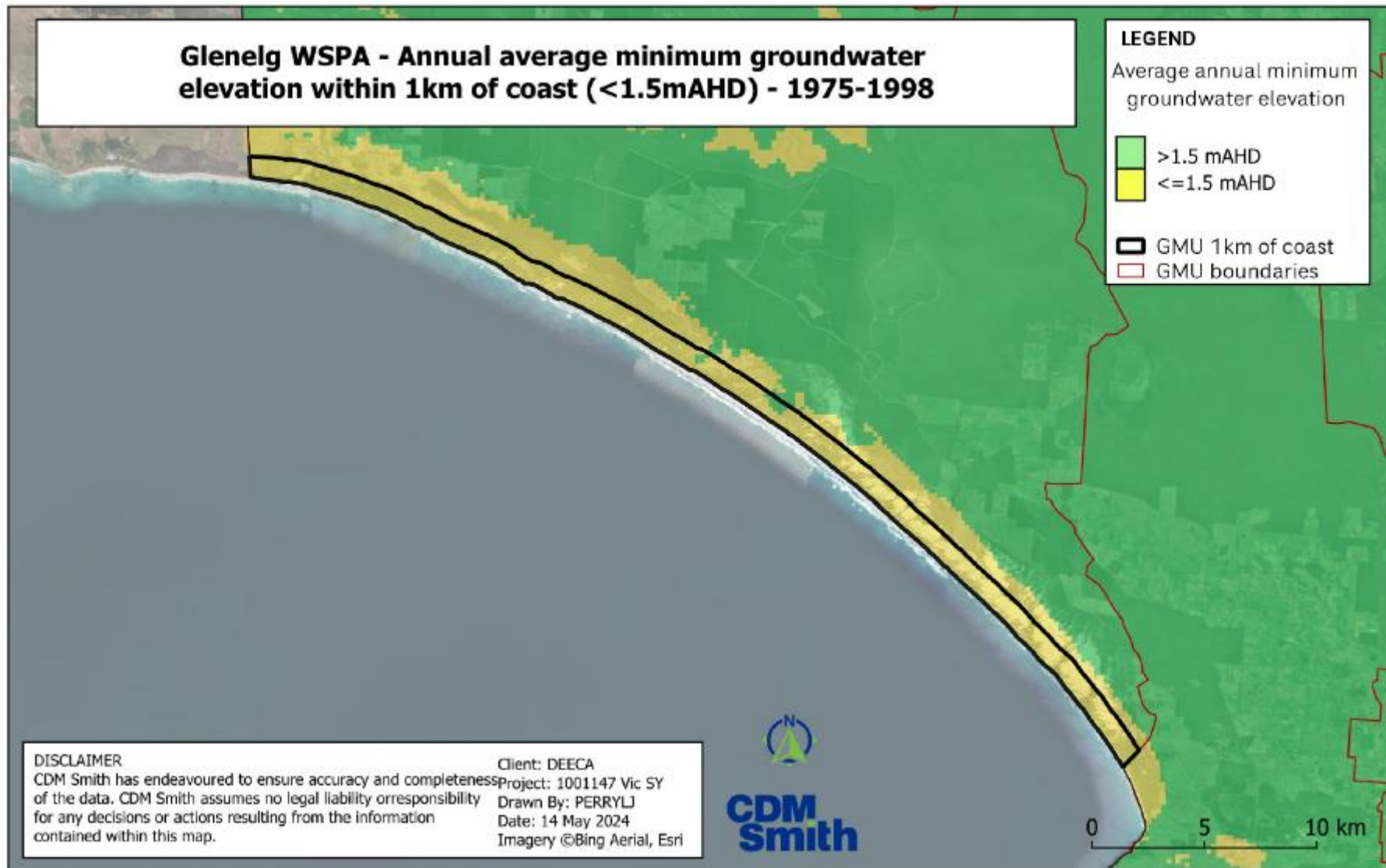


Figure PP-24 Seawater intrusion analysis area for the Glenelg GMA - 1975-1997.

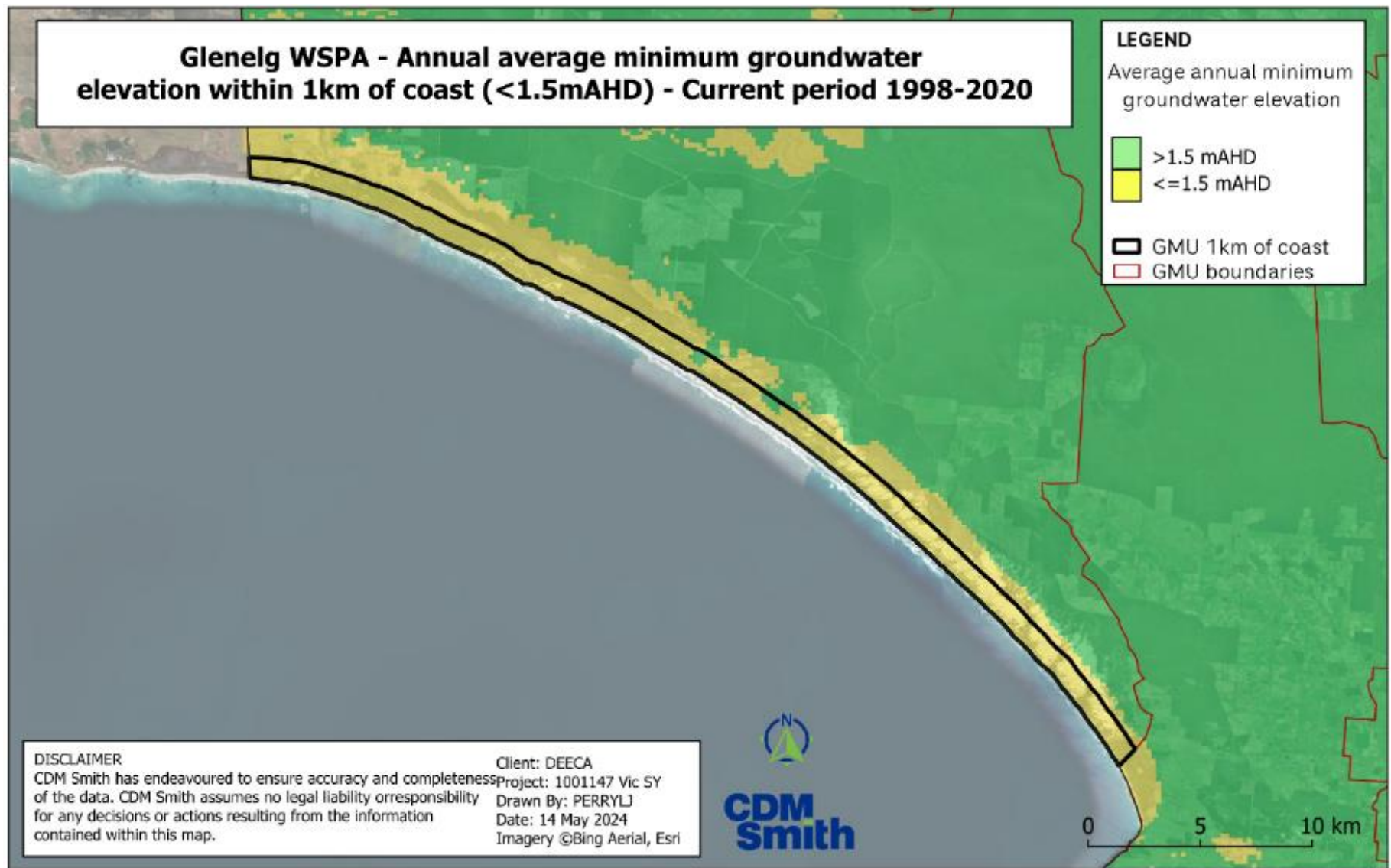


Figure PP-25 Seawater intrusion analysis area for the Glenelg GMA - 1998-2020.

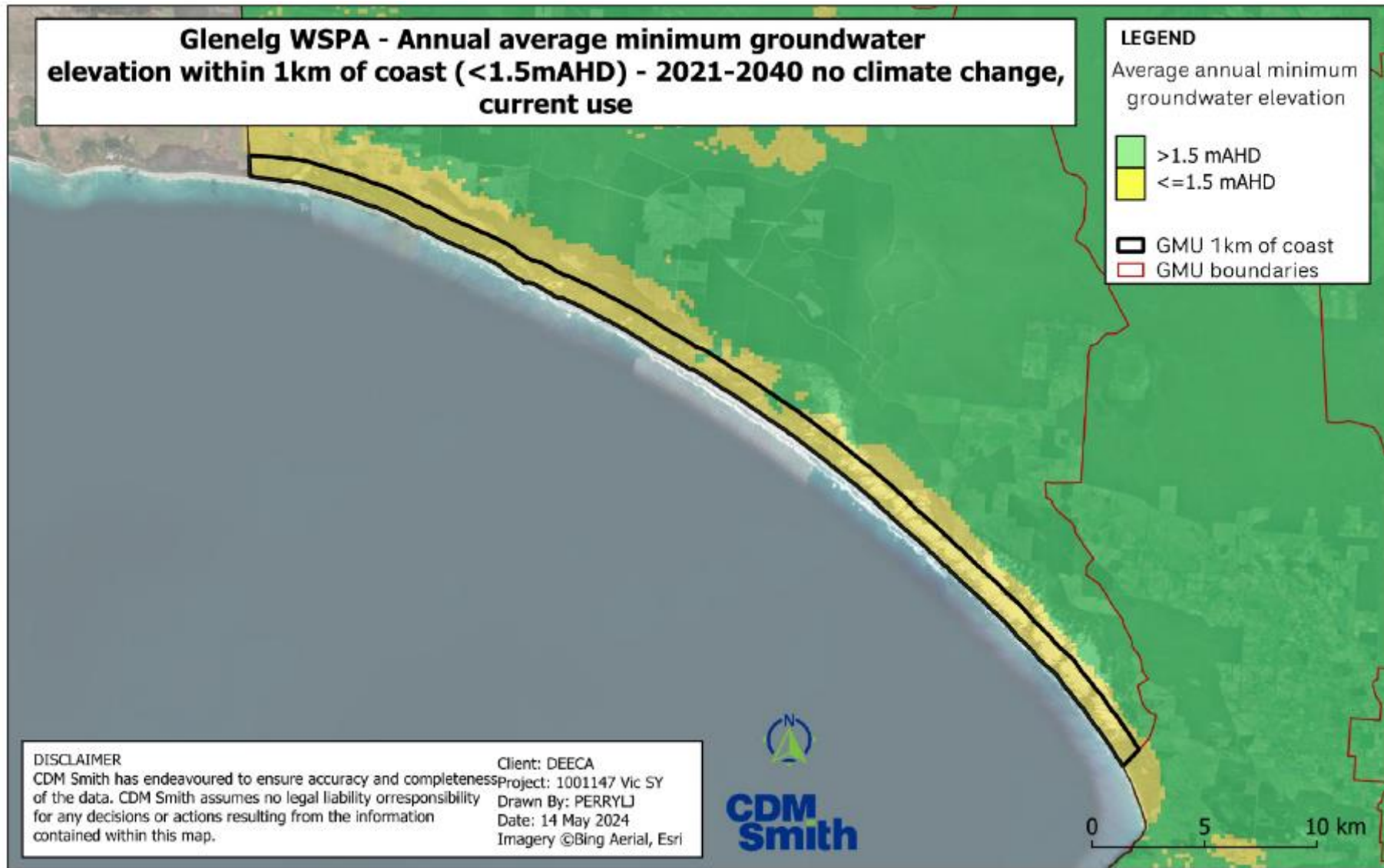


Figure PP-26 Seawater intrusion analysis area for the Glenelg GMA - 2021-2040 no climate change and current groundwater use.

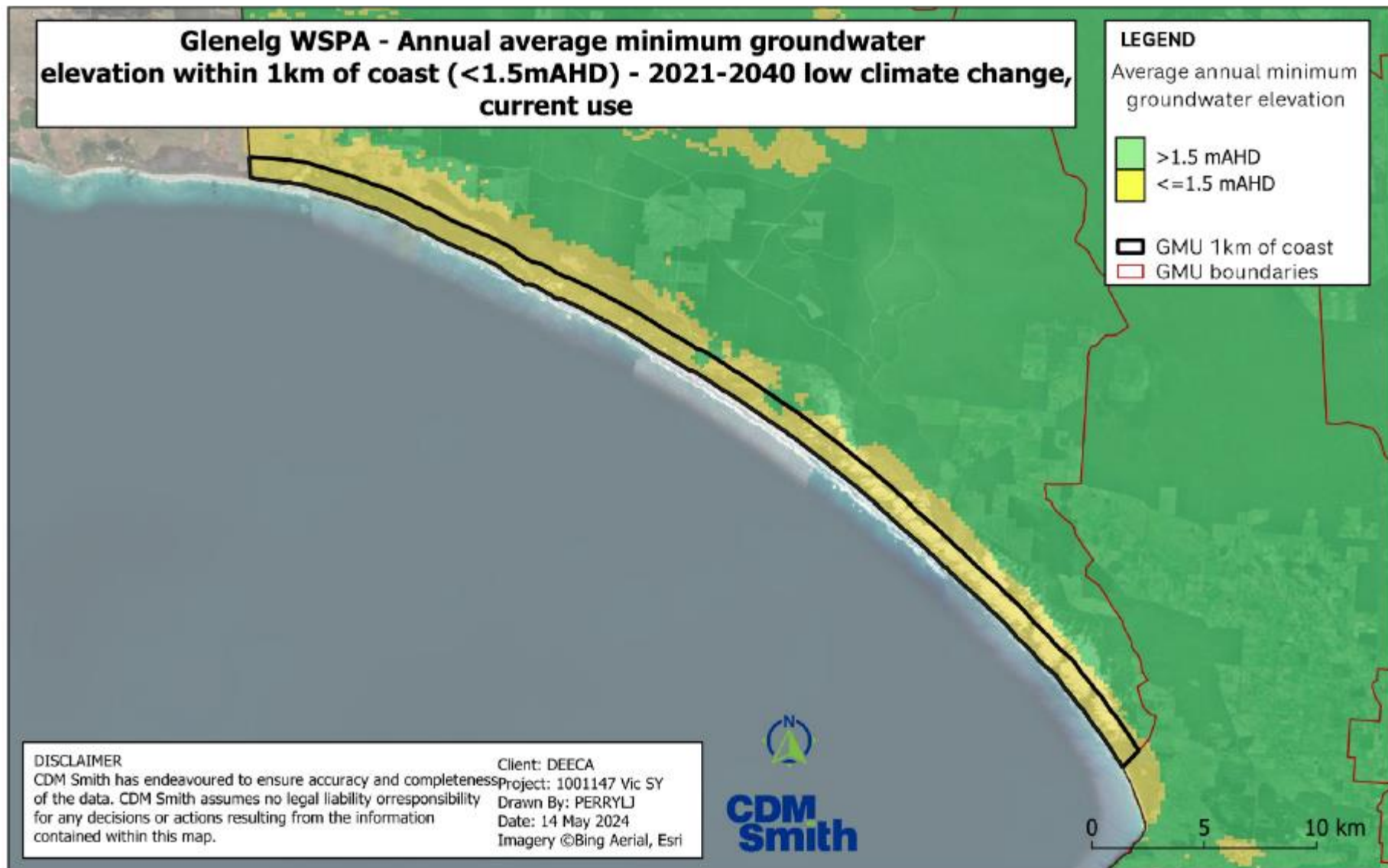


Figure PP-27 Seawater intrusion analysis area for the Glenelg GMA – 2021-2040 low climate change and current groundwater use.

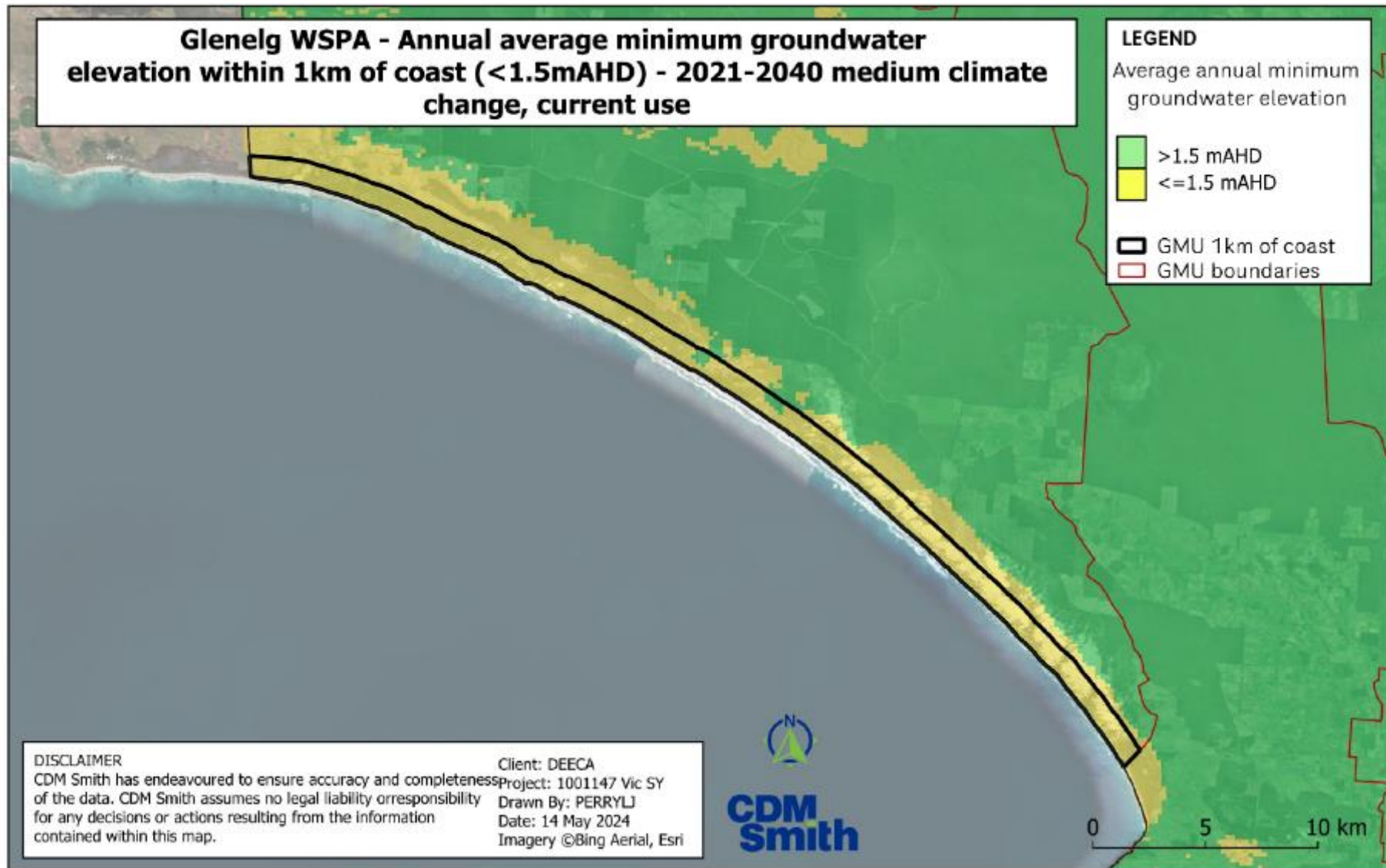


Figure PP-28 Seawater intrusion analysis area for the Glenelg GMA - 2021-2040 medium climate change and current groundwater use.

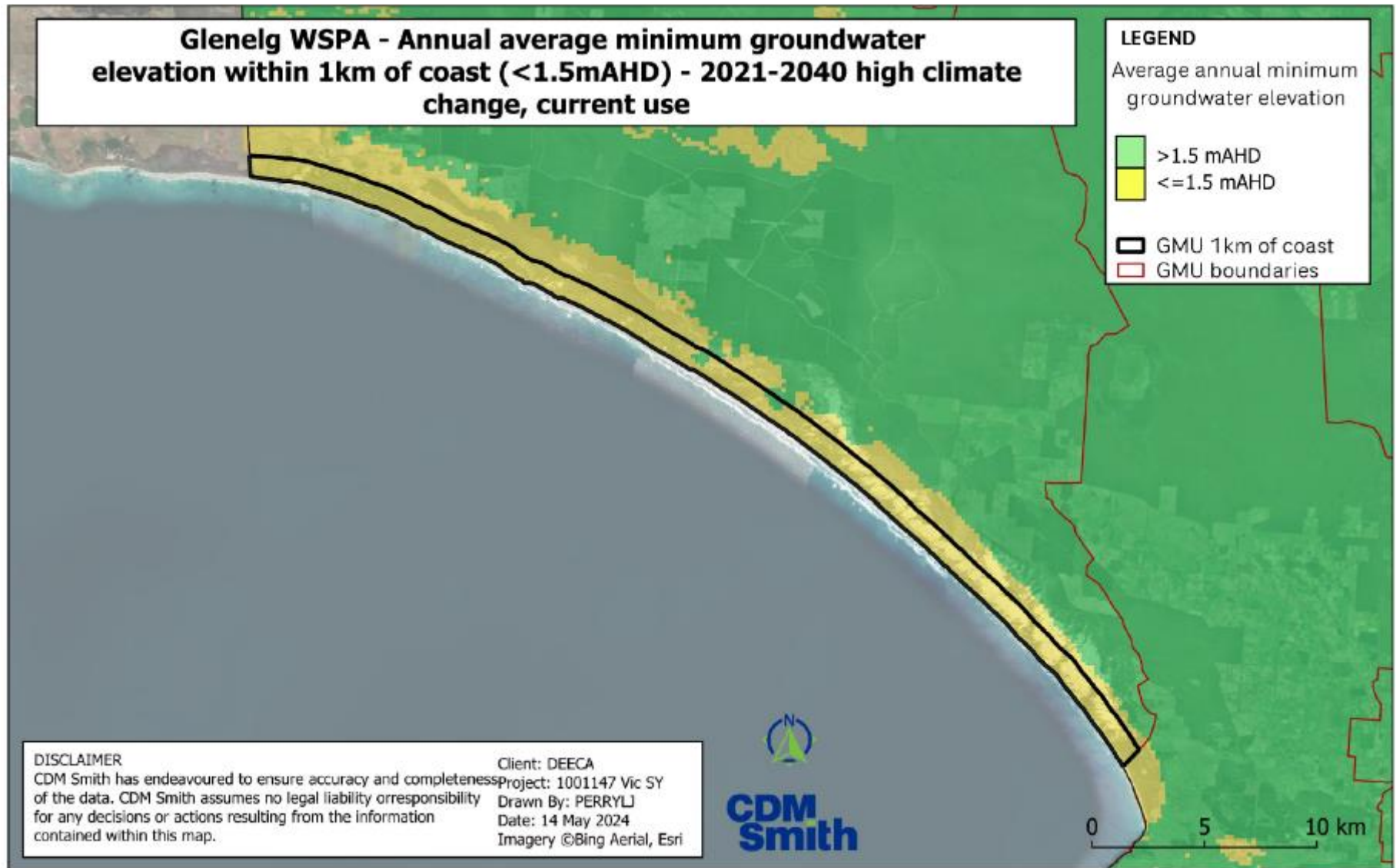


Figure PP-29 Seawater intrusion analysis area for the Glenelg GMA – 2021-2040 high climate change and current groundwater use.

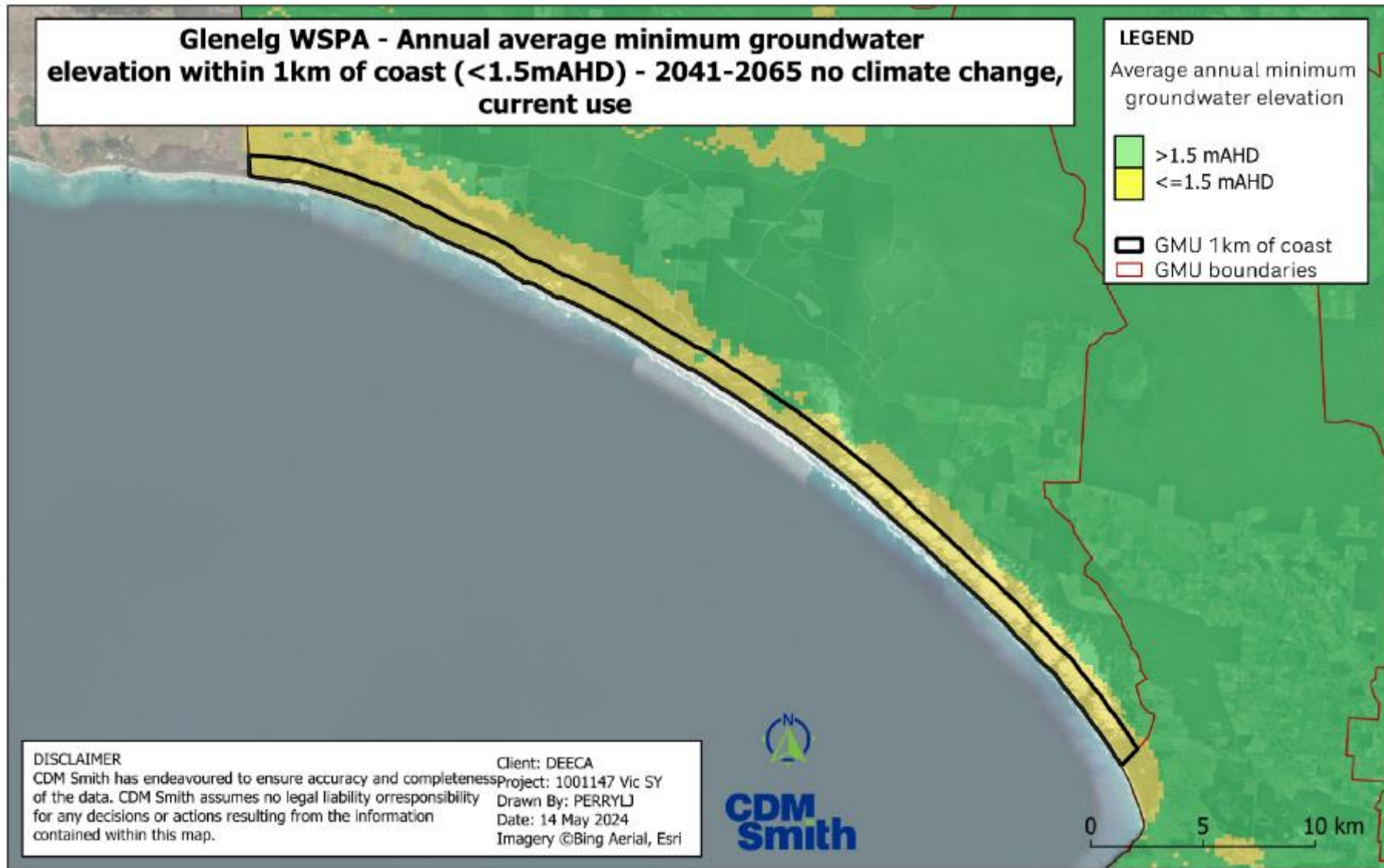


Figure PP-30 Seawater intrusion analysis area for the Glenelg GMA - 2041-2065 no climate change and current groundwater use.

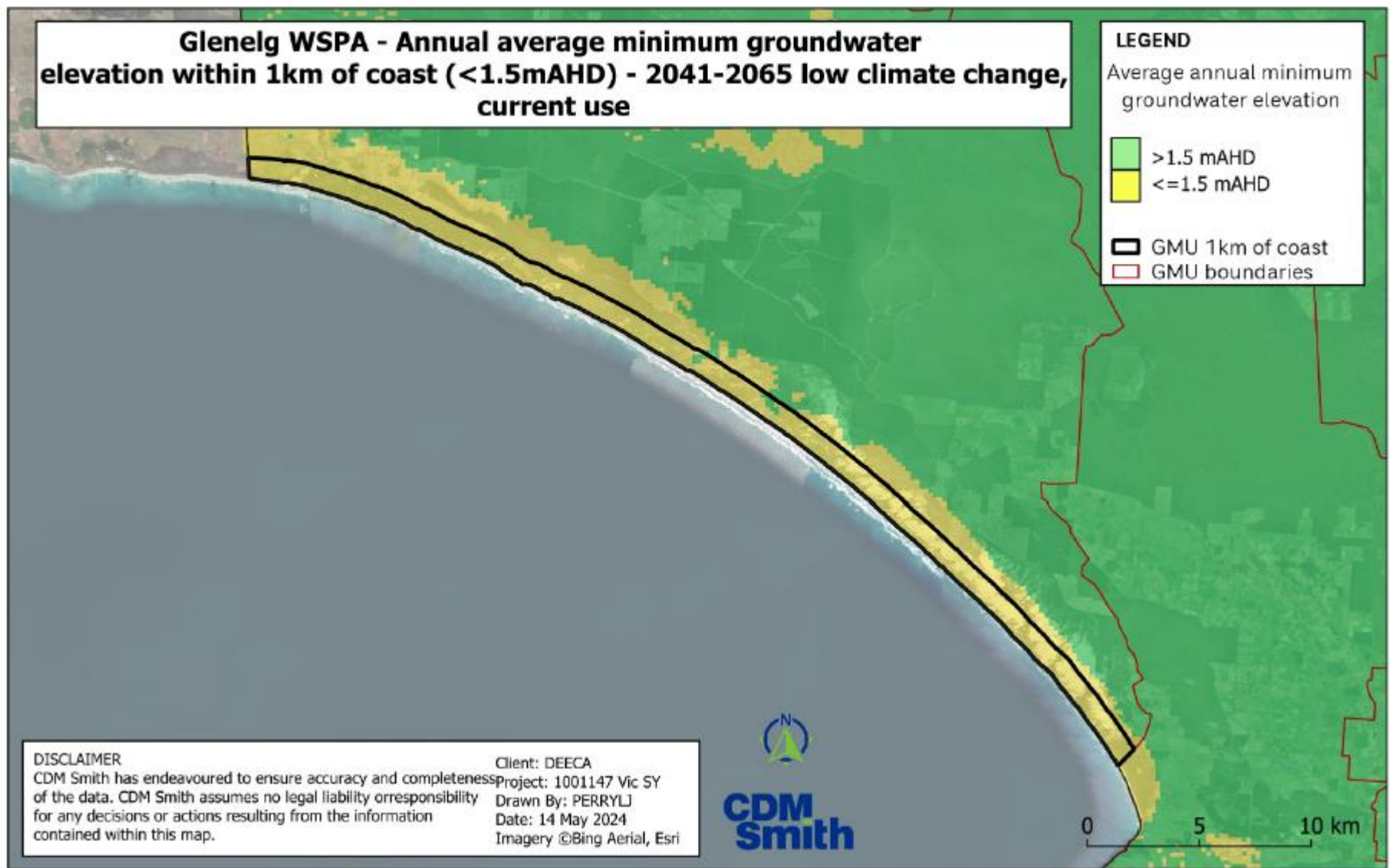


Figure PP-31 Seawater intrusion analysis area for the Glenelg GMA – 2041-2065 low climate change and current groundwater use.

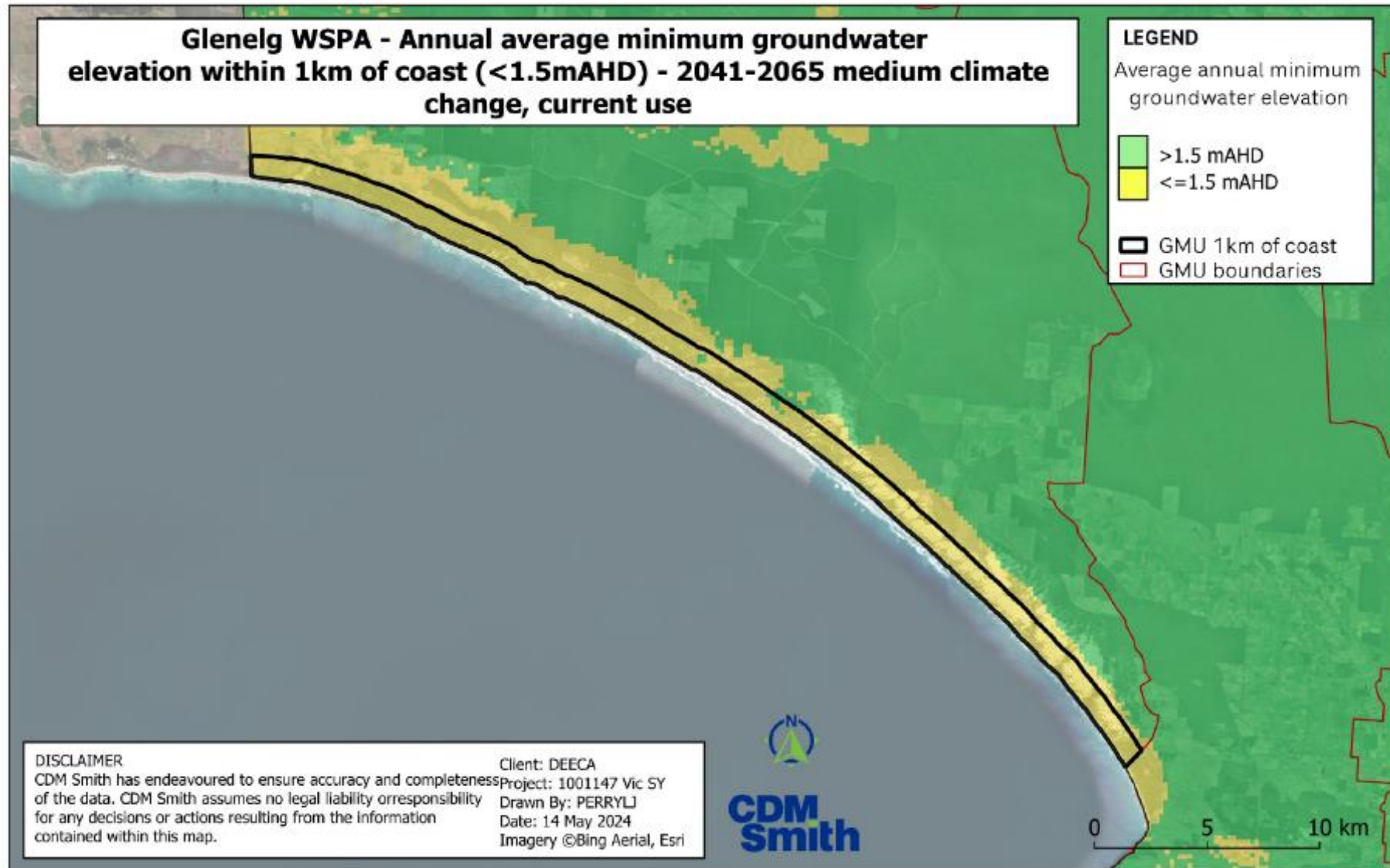


Figure PP-32 Seawater intrusion analysis area for the Glenelg GMA - 2041-2065 medium climate change and current groundwater use.

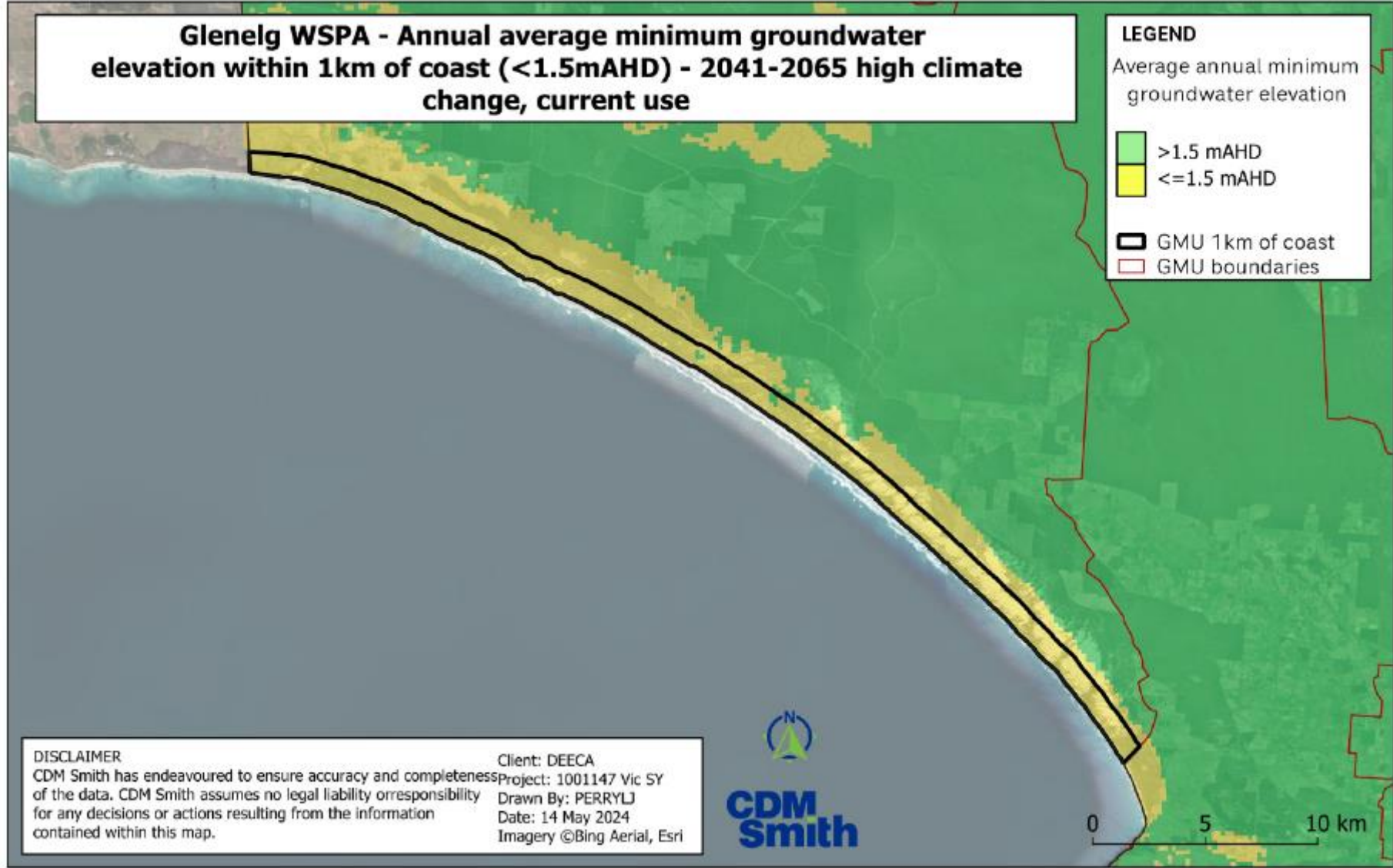


Figure PP-33 Seawater intrusion analysis area for the Glenelg GMA – 2041-2065 high climate change and current groundwater use.

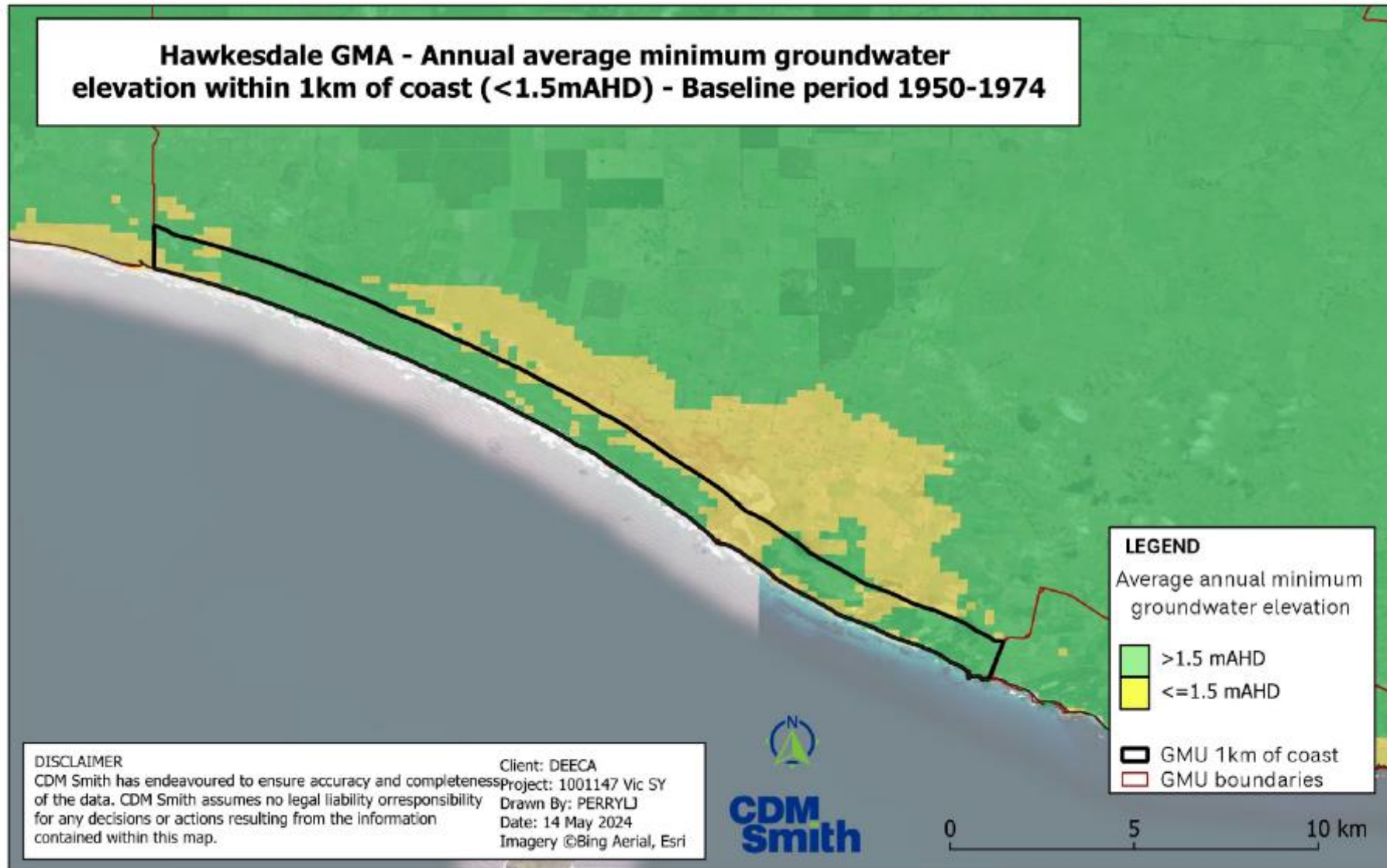


Figure PP-34 Seawater intrusion analysis area for the Hawkesdale GMA - Baseline 1950-1974.

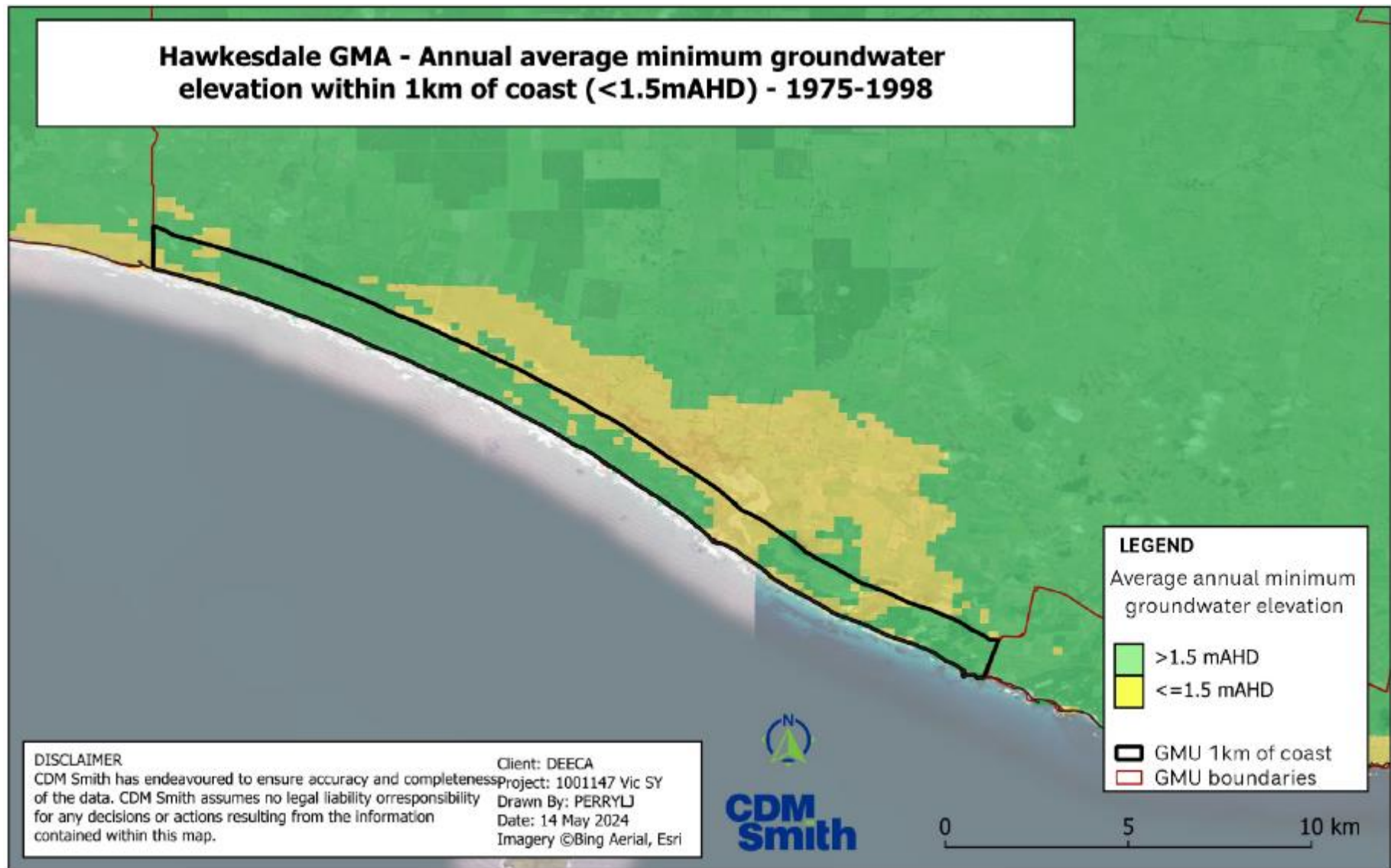


Figure PP-35 Seawater intrusion analysis area for the Hawkesdale GMA - 1975-1997.

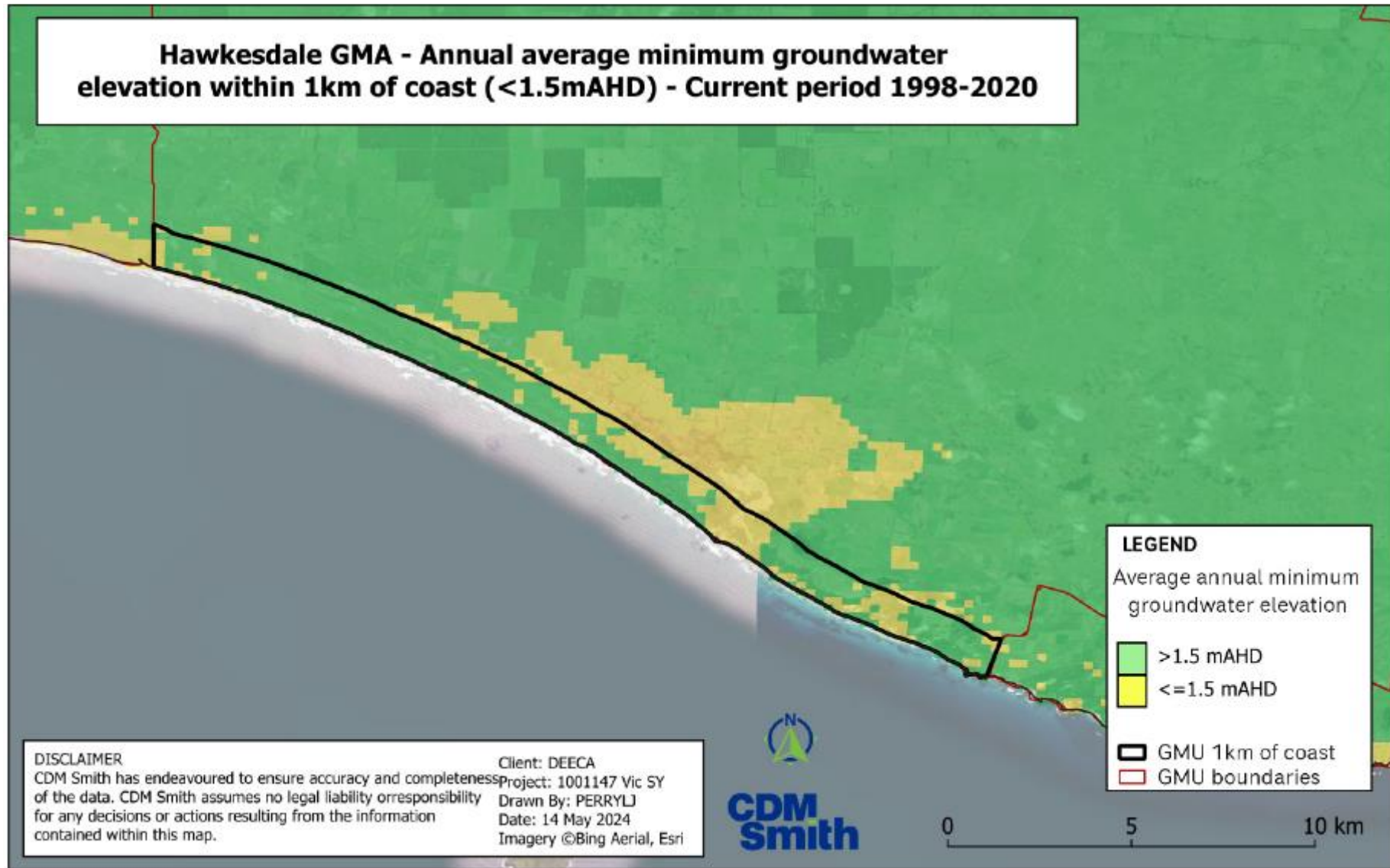


Figure PP-36 Seawater intrusion analysis area for the Hawkesdale GMA 1998-2020.

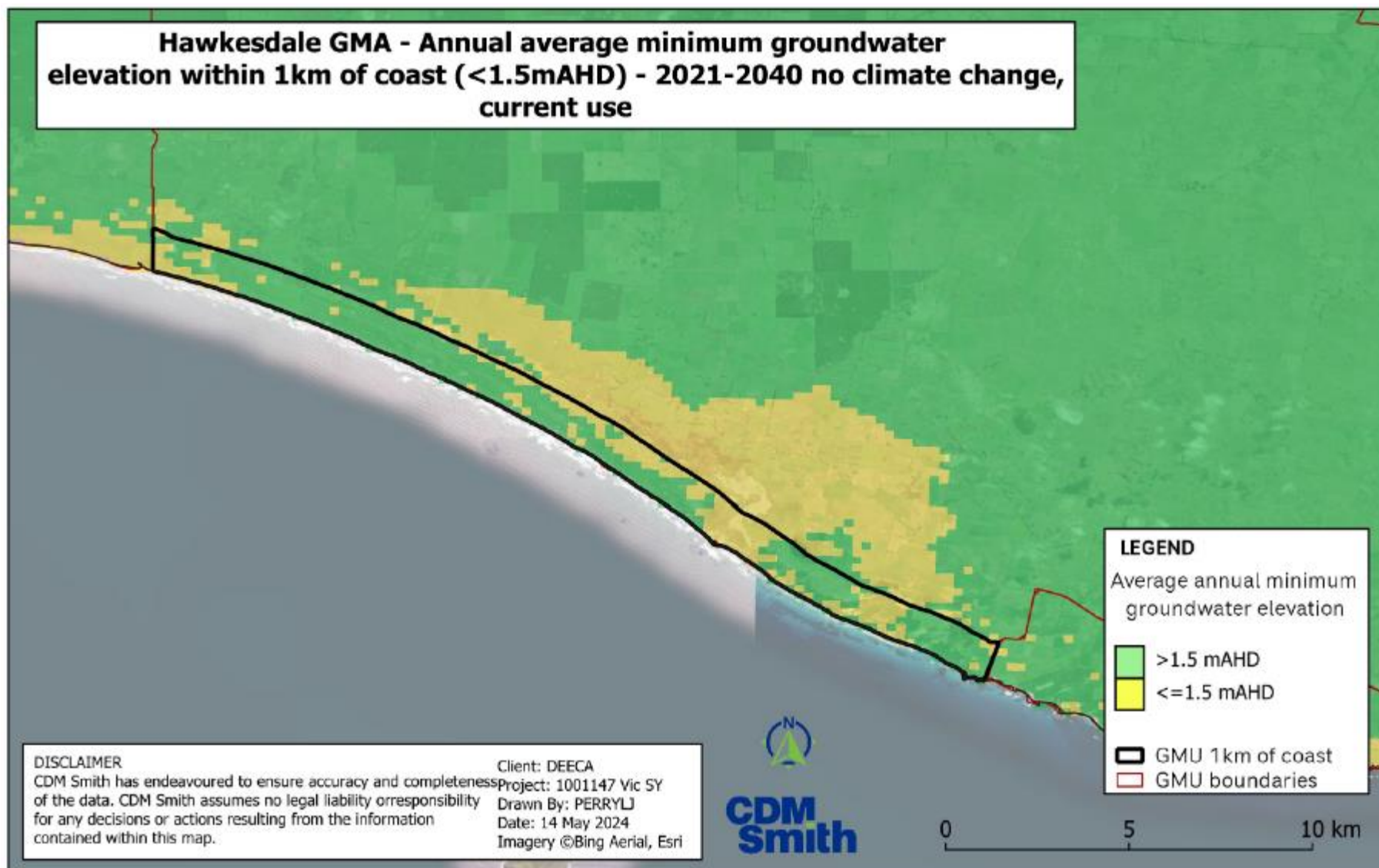


Figure PP-37 Seawater intrusion analysis area for the Hawkesdale GMA- 2021-2040 no climate change and current groundwater use.

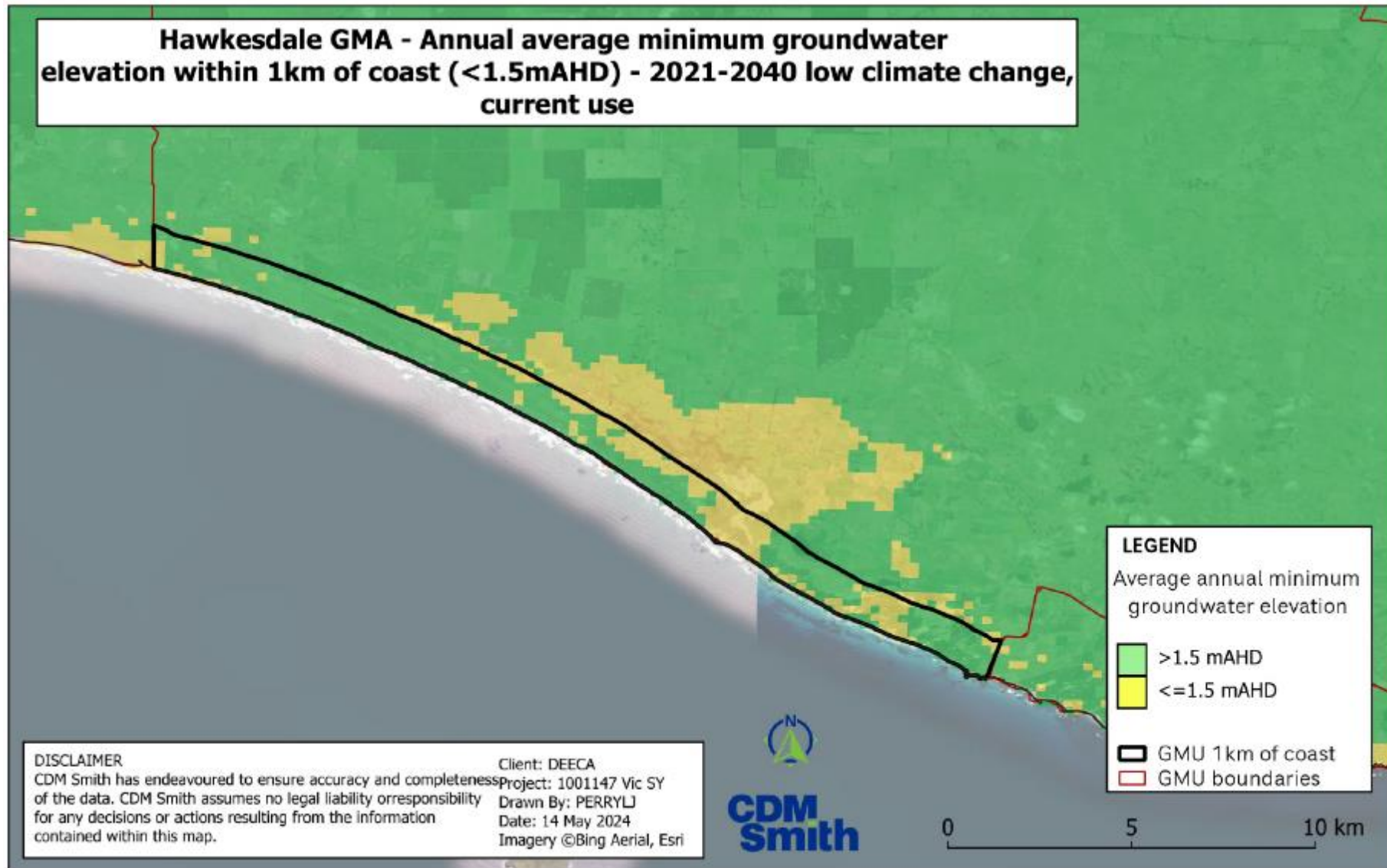


Figure PP-38 Seawater intrusion analysis area for the Hawkesdale GMA- 2021-2040 low climate change and current groundwater use.

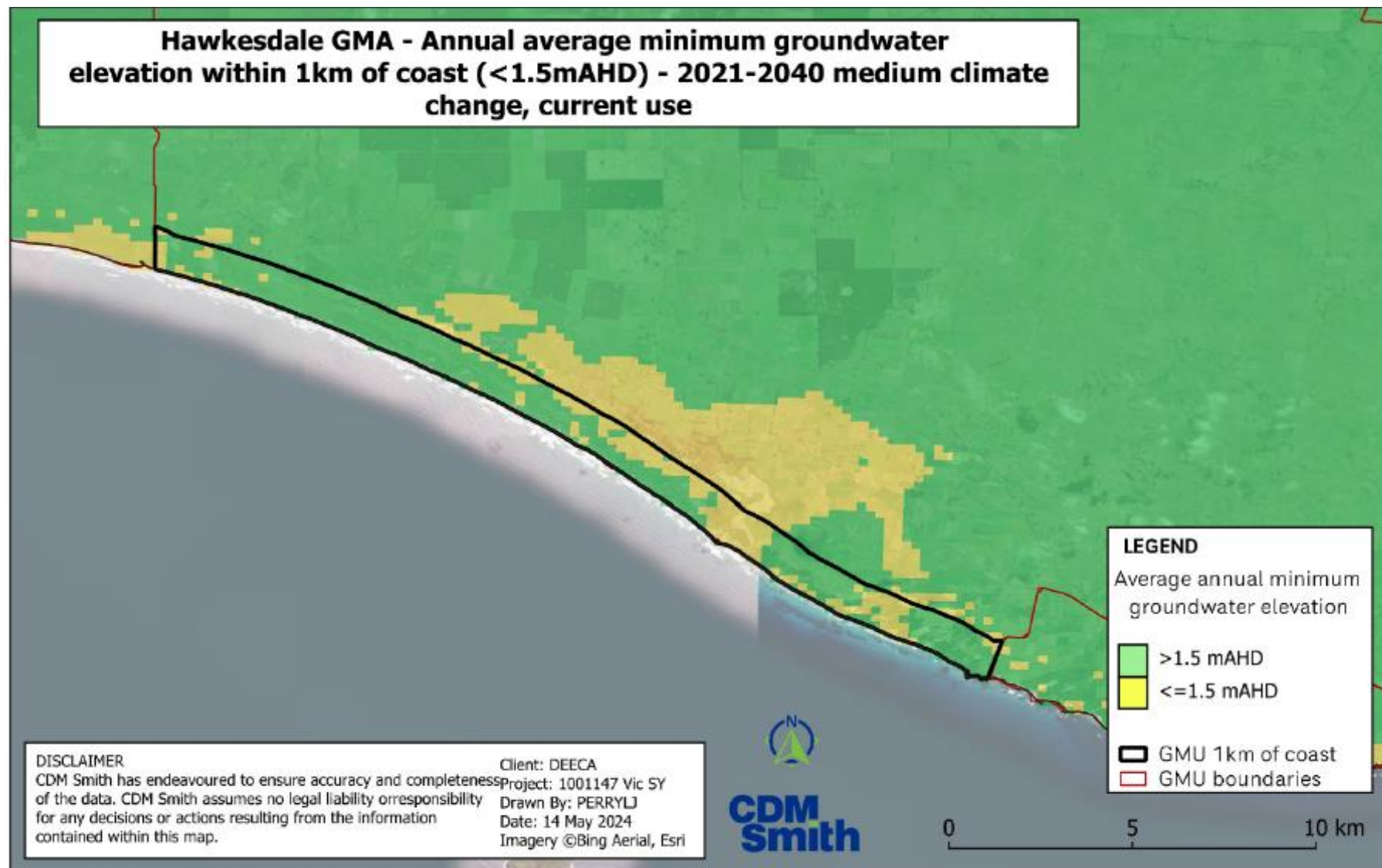


Figure PP-39 Seawater intrusion analysis area for the Hawkesdale GMA- 2021-2040 medium climate change and current groundwater use.

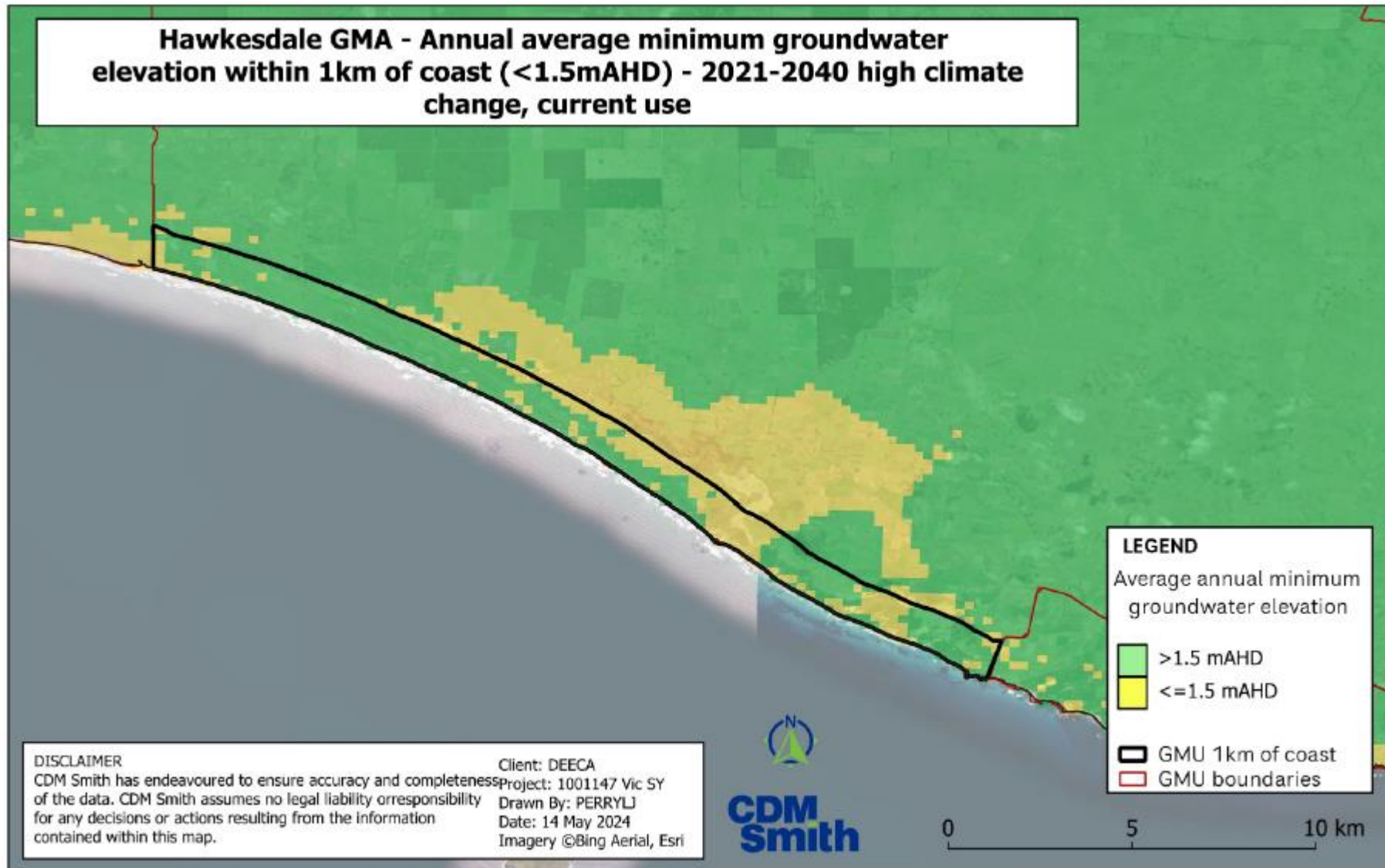


Figure PP-40 Seawater intrusion analysis area for the Hawkesdale GMA- 2021-2040 high climate change and current groundwater use.

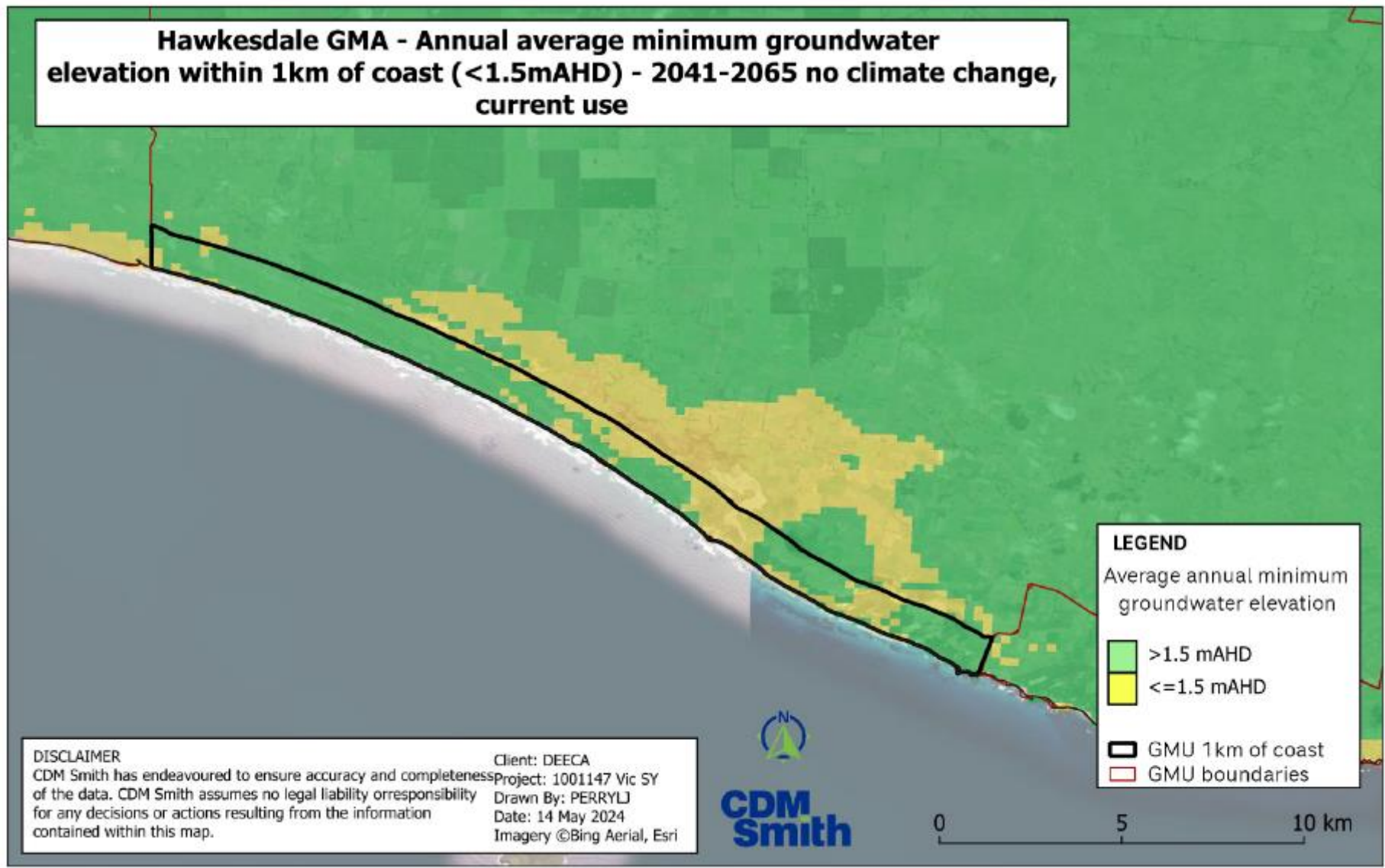


Figure PP-41 Seawater intrusion analysis area for the Hawkesdale GMA GMA - 2041-2065 no climate change and current groundwater use.

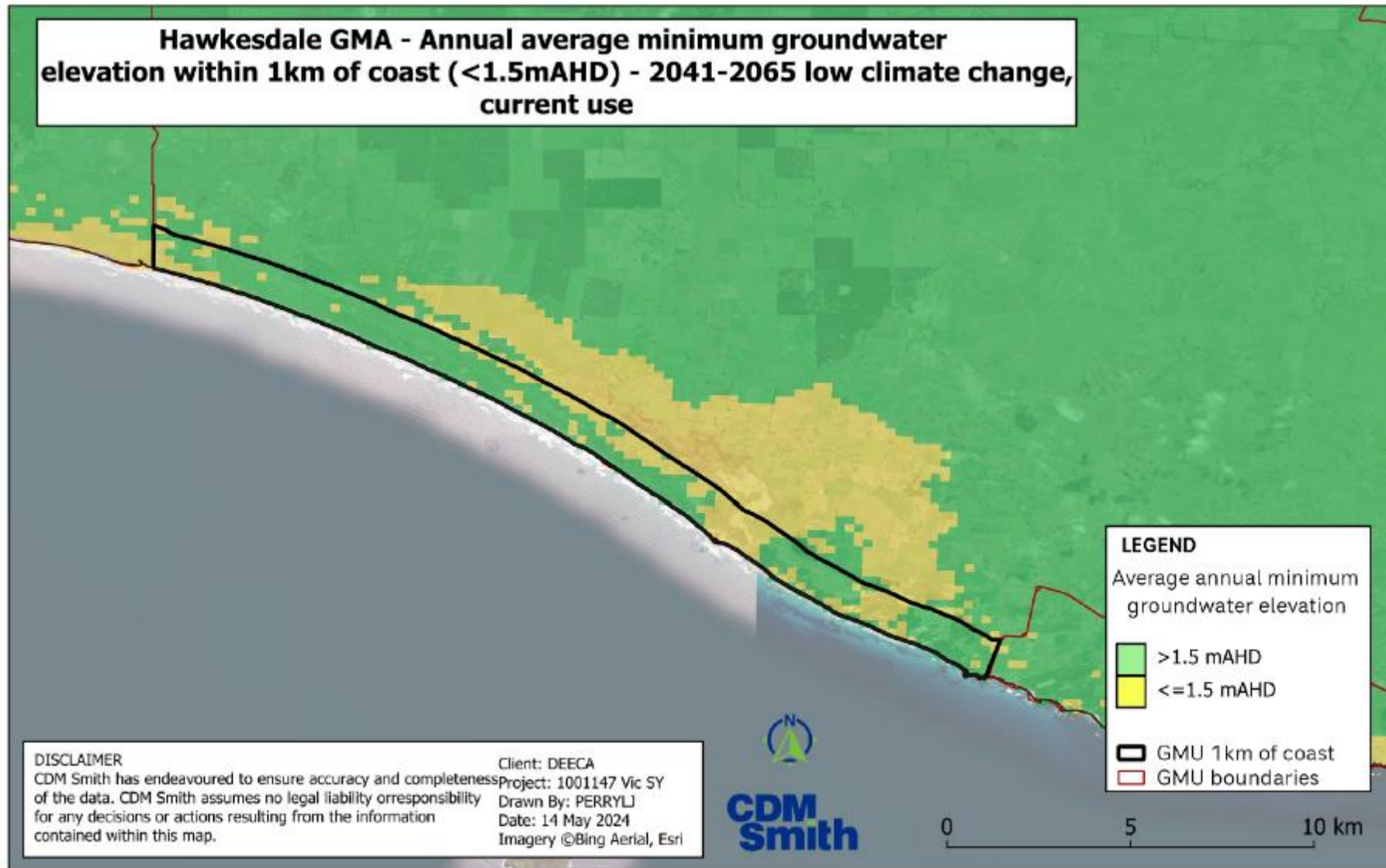


Figure PP-42 Seawater intrusion analysis area for the Hawkesdale GMA - 2041-2065 low climate change and current groundwater use.

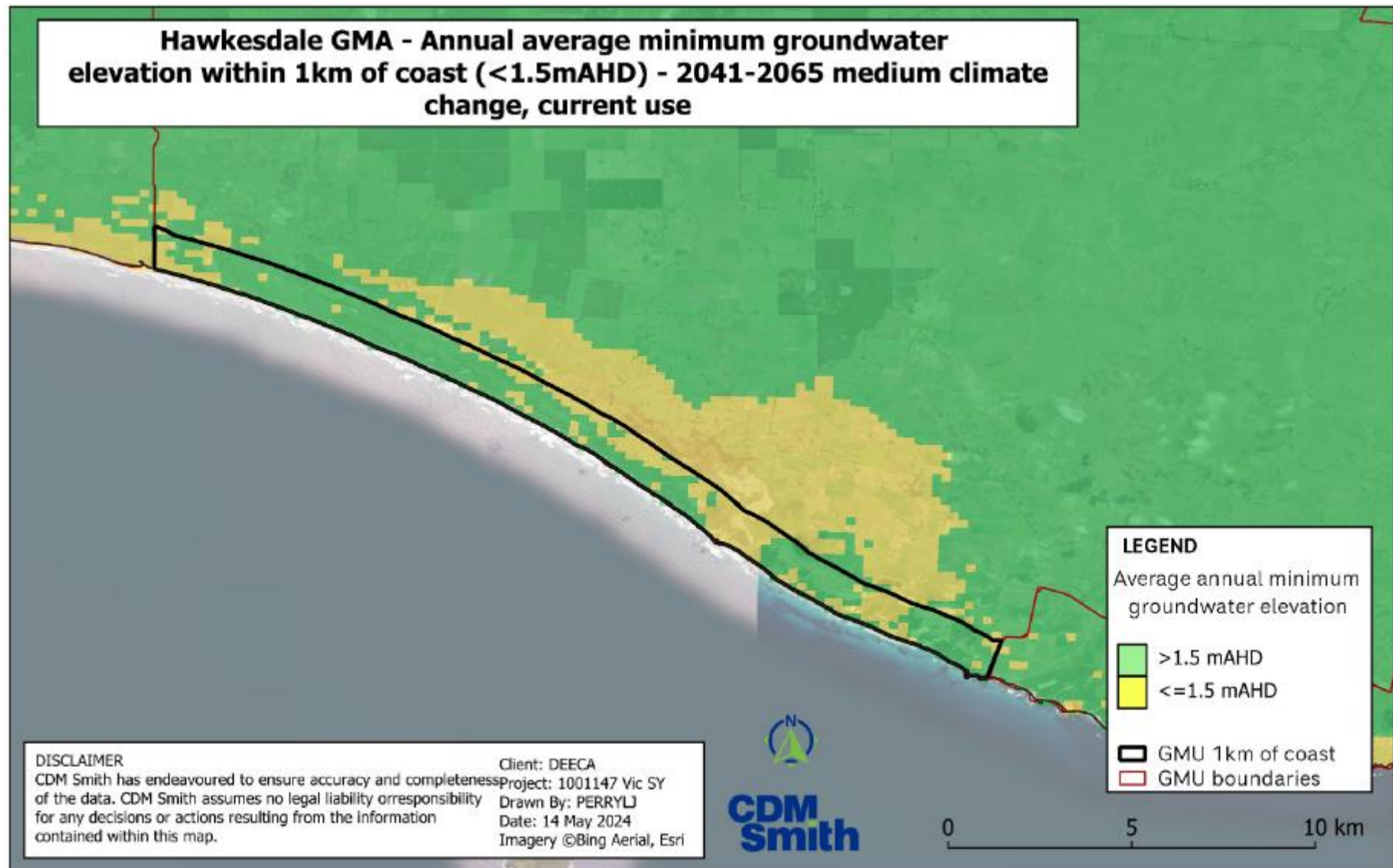


Figure PP-43 Seawater intrusion analysis area for the Hawkesdale GMA - 2041-2065 medium climate change and current groundwater use.

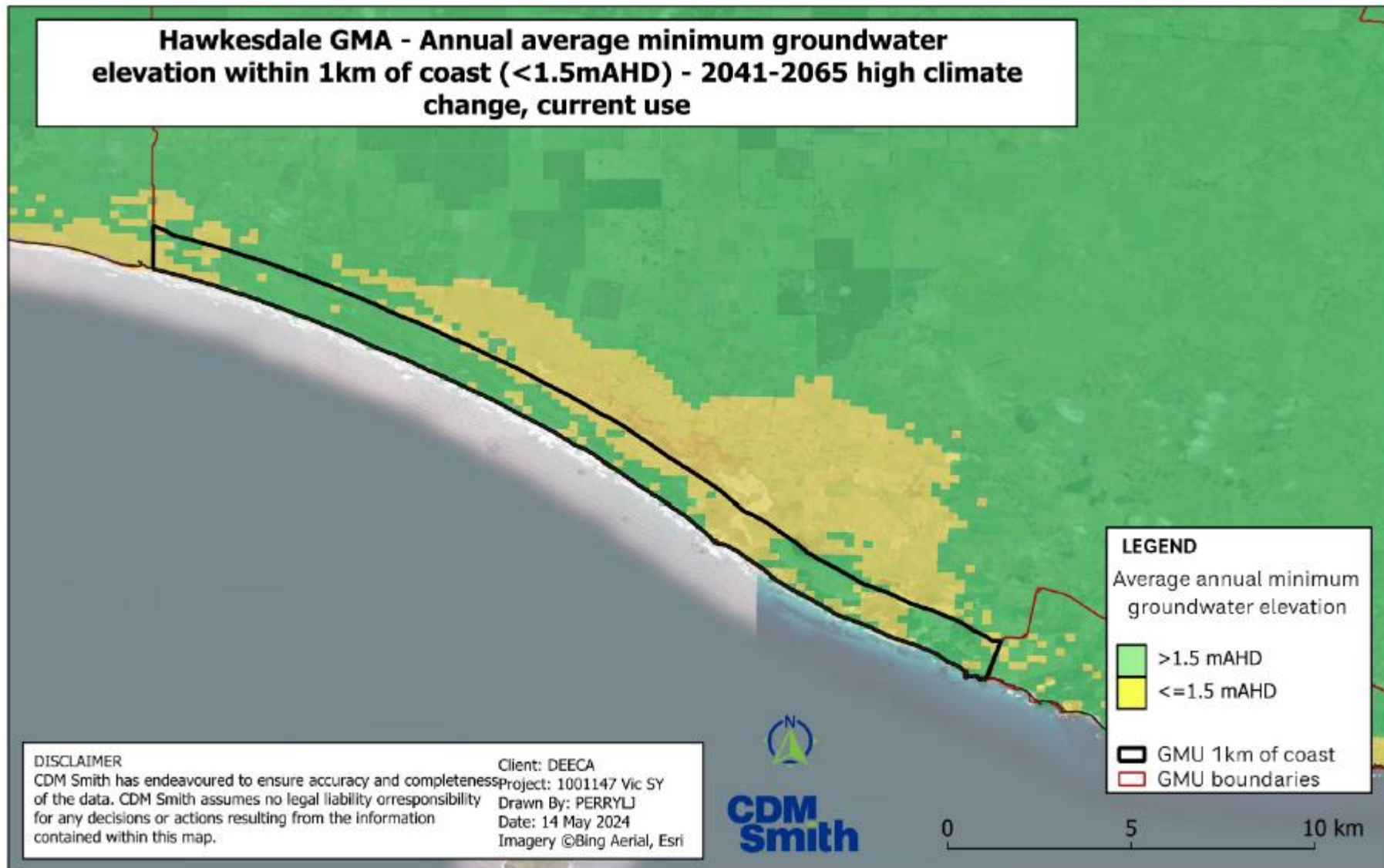


Figure PP-44 Seawater intrusion analysis area for the Hawkesdale GMA - 2041-2065 high climate change and current groundwater use.

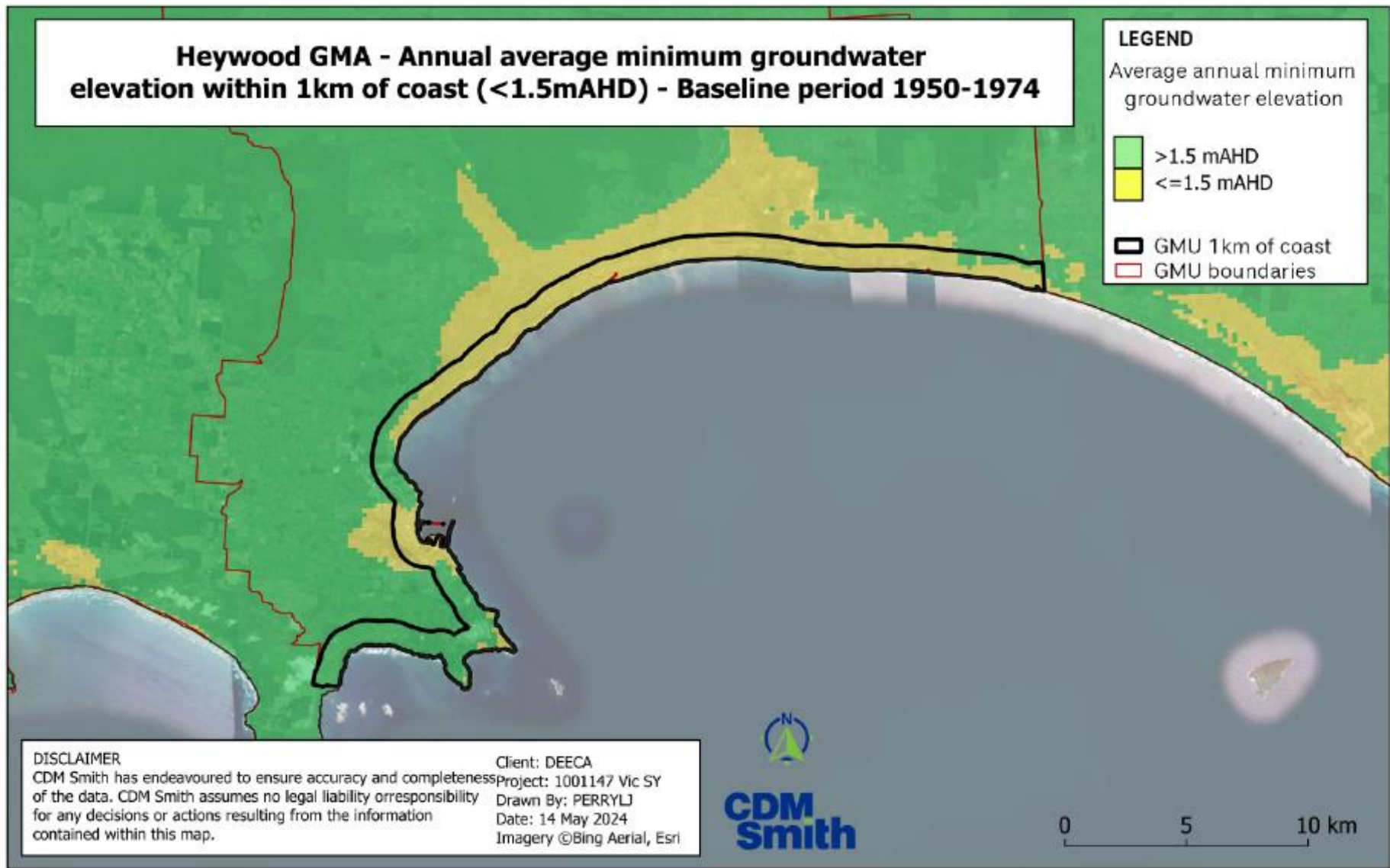


Figure PP-45 Seawater intrusion analysis area for the Heywood GMA - Baseline 1950-1974 .

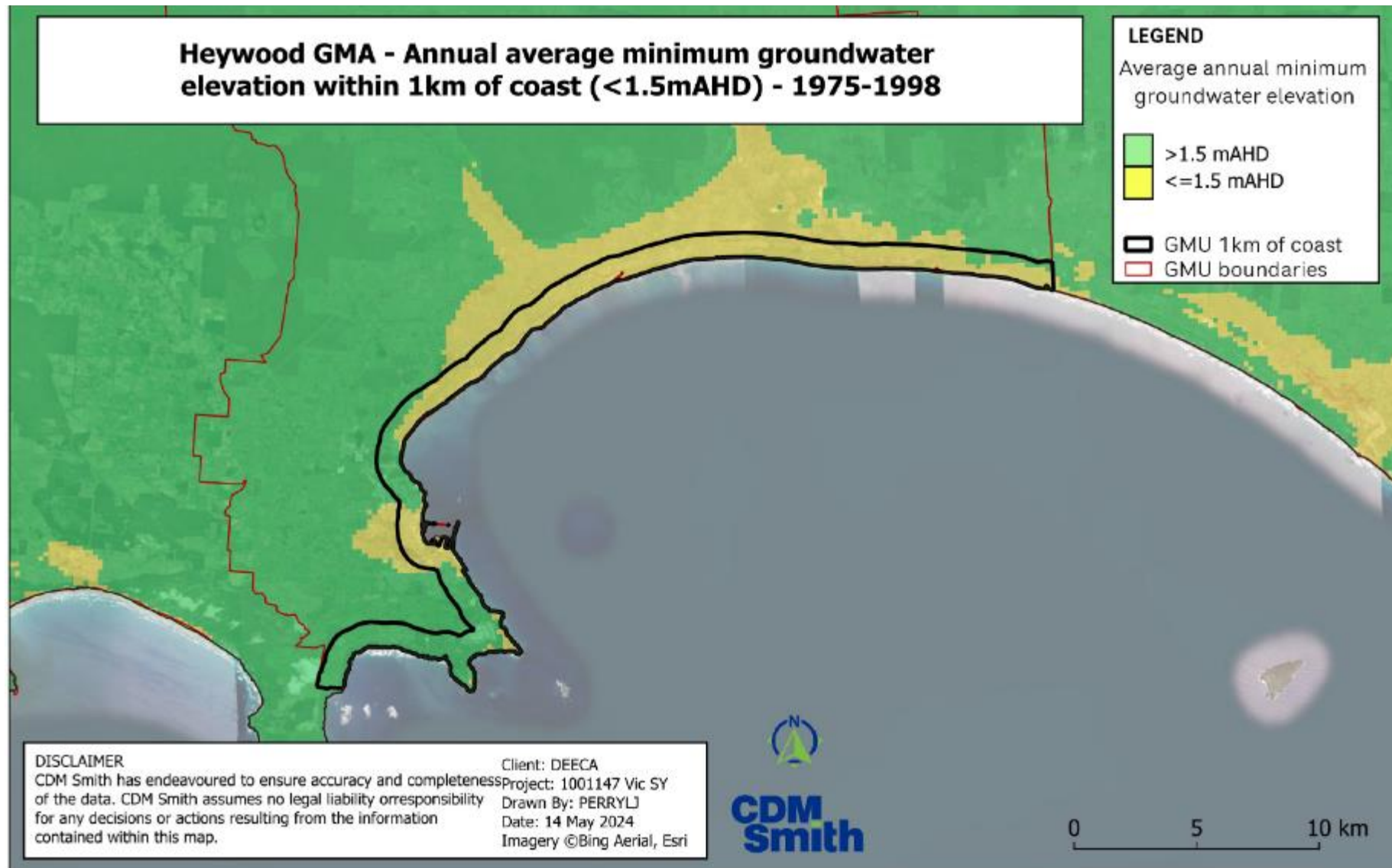


Figure PP-46 Seawater intrusion analysis area for the Heywood GMA - 1975-1997.

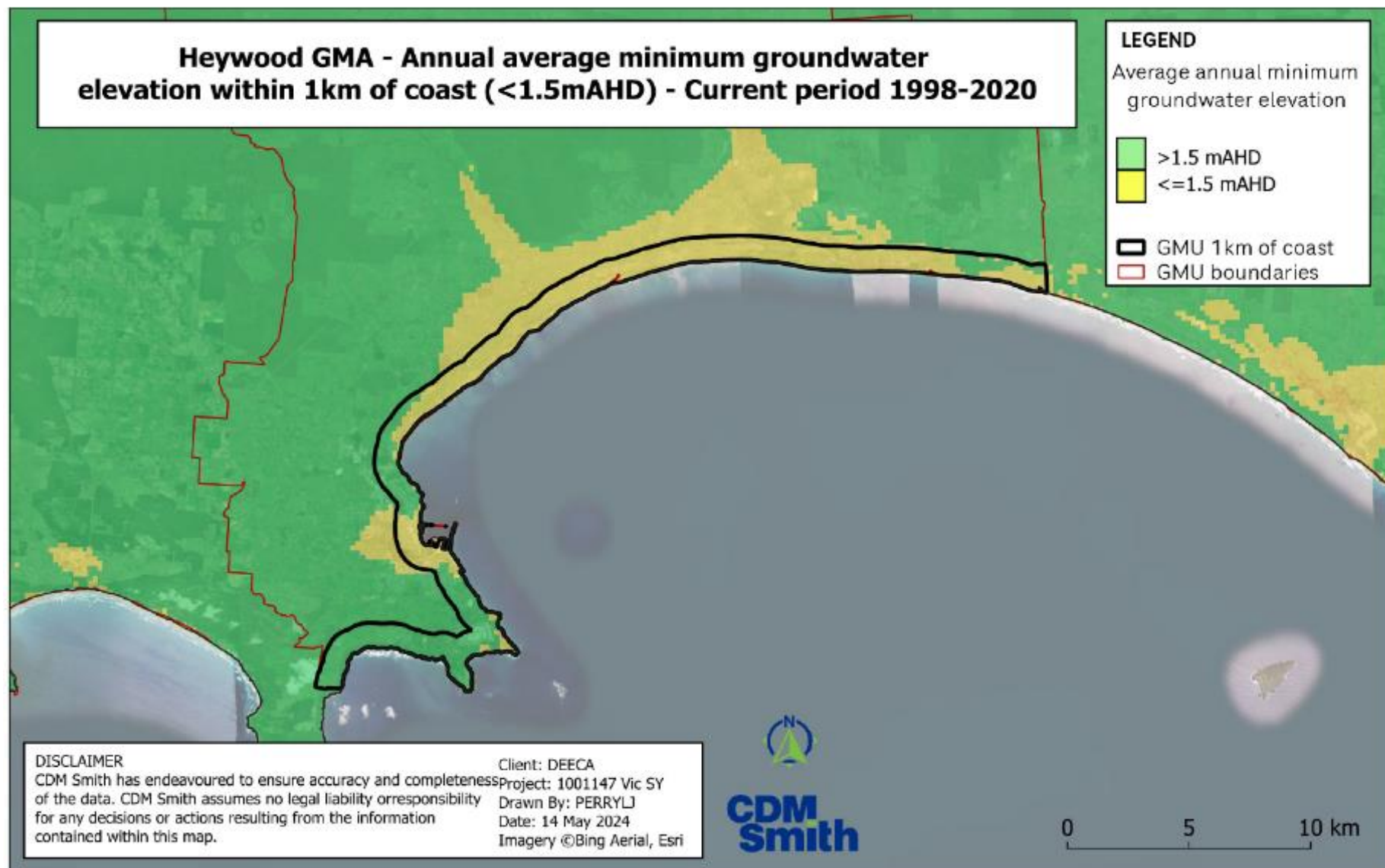


Figure PP-47 Seawater intrusion analysis area for the Heywood GMA - 1998-2020.

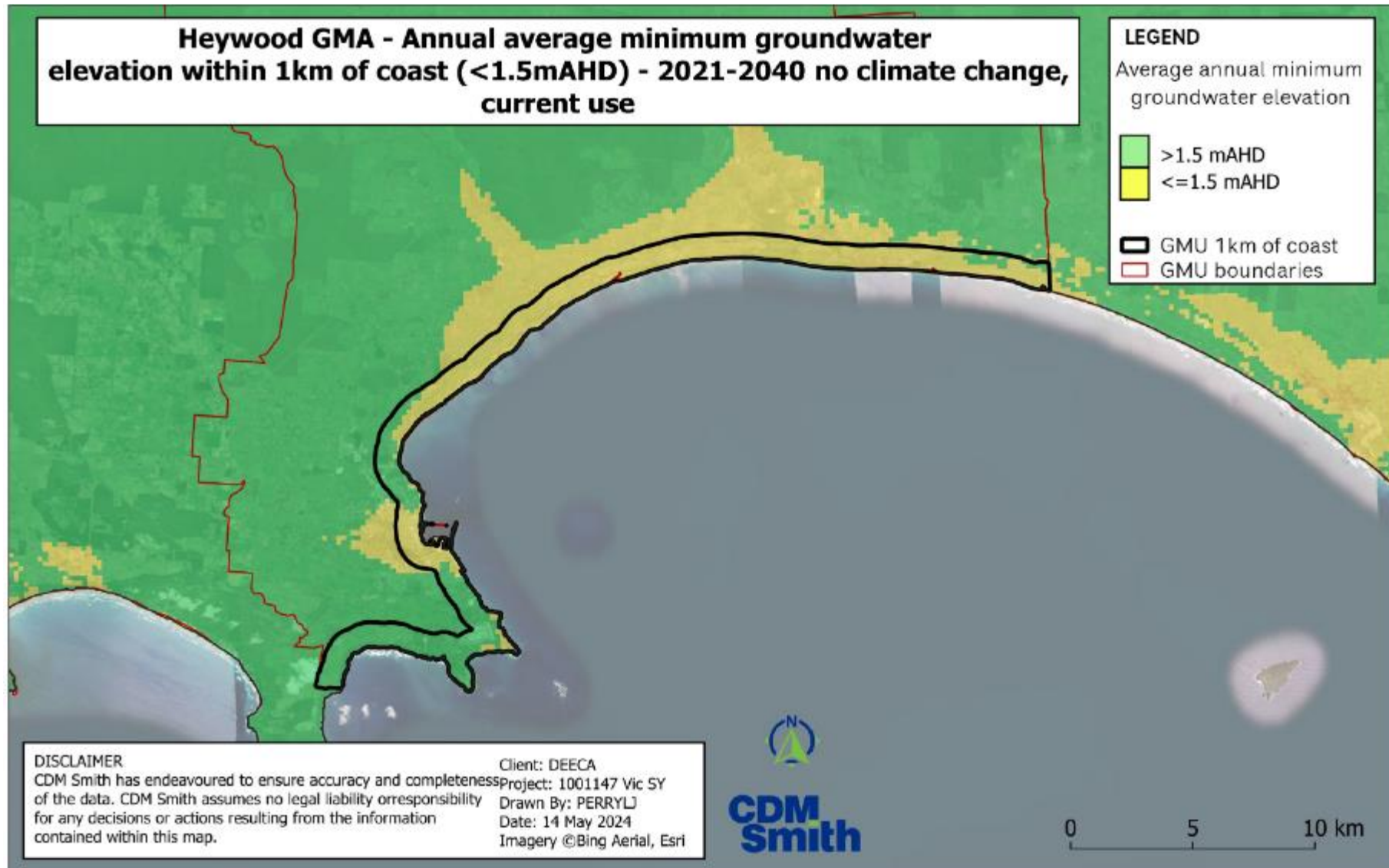


Figure PP-48 Seawater intrusion analysis area for the Heywood GMA - 2021-2040 no climate change and current groundwater use.

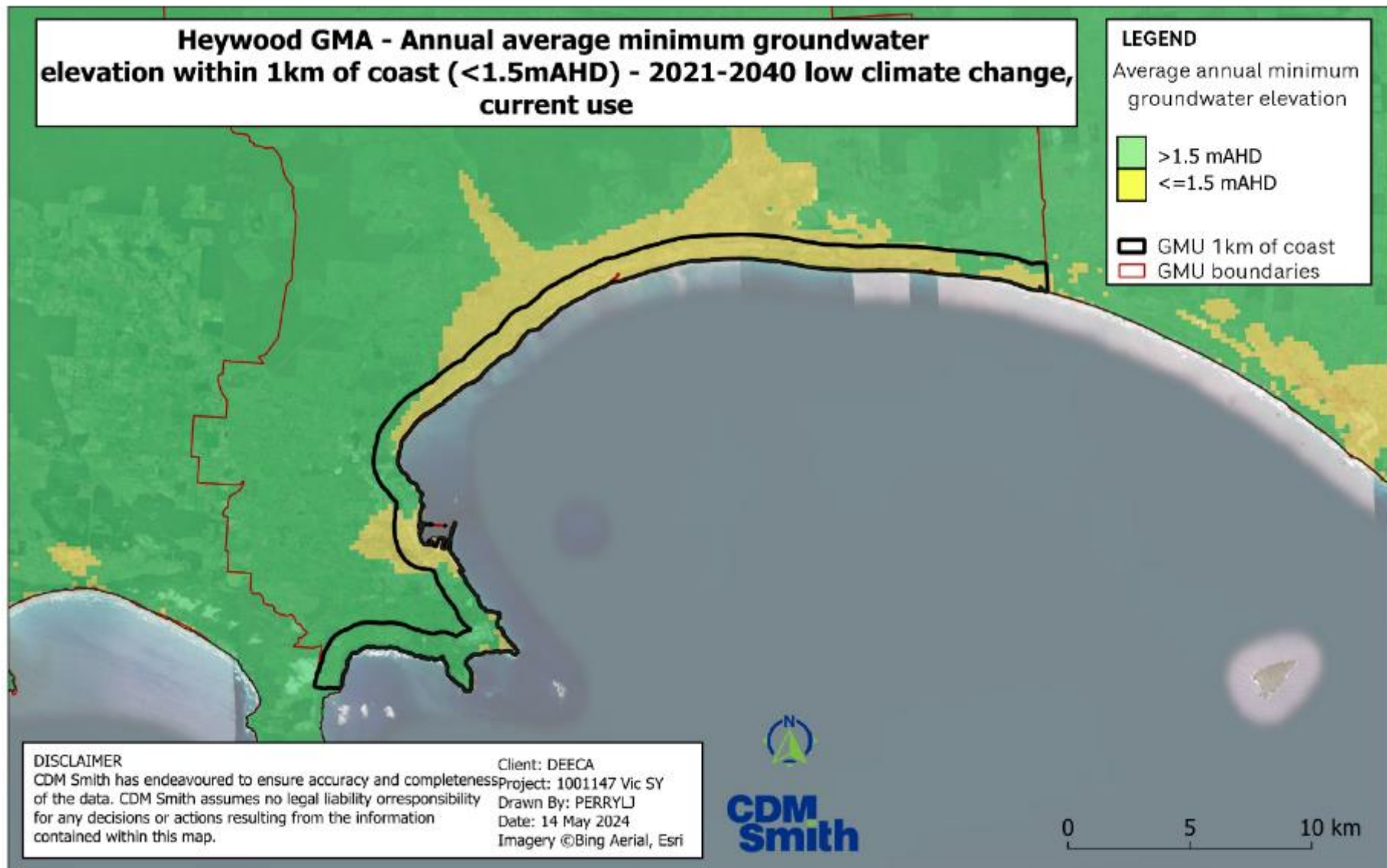


Figure PP-49 Seawater intrusion analysis area for the Heywood GMA – 2021-2040 low climate change and current groundwater use.

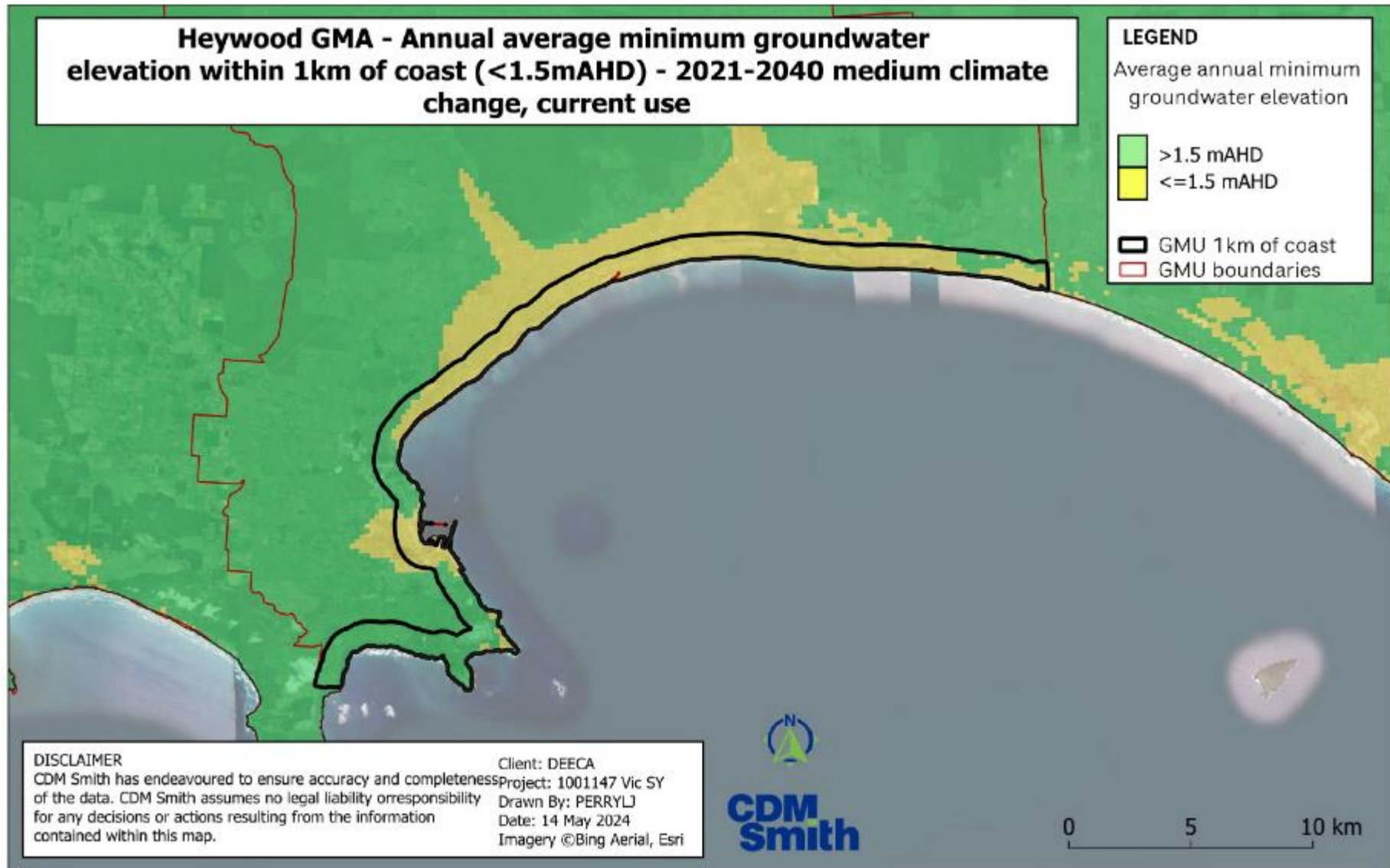


Figure PP-50 Seawater intrusion analysis area for the Heywood GMA - 2021-2040 medium climate change and current groundwater use.

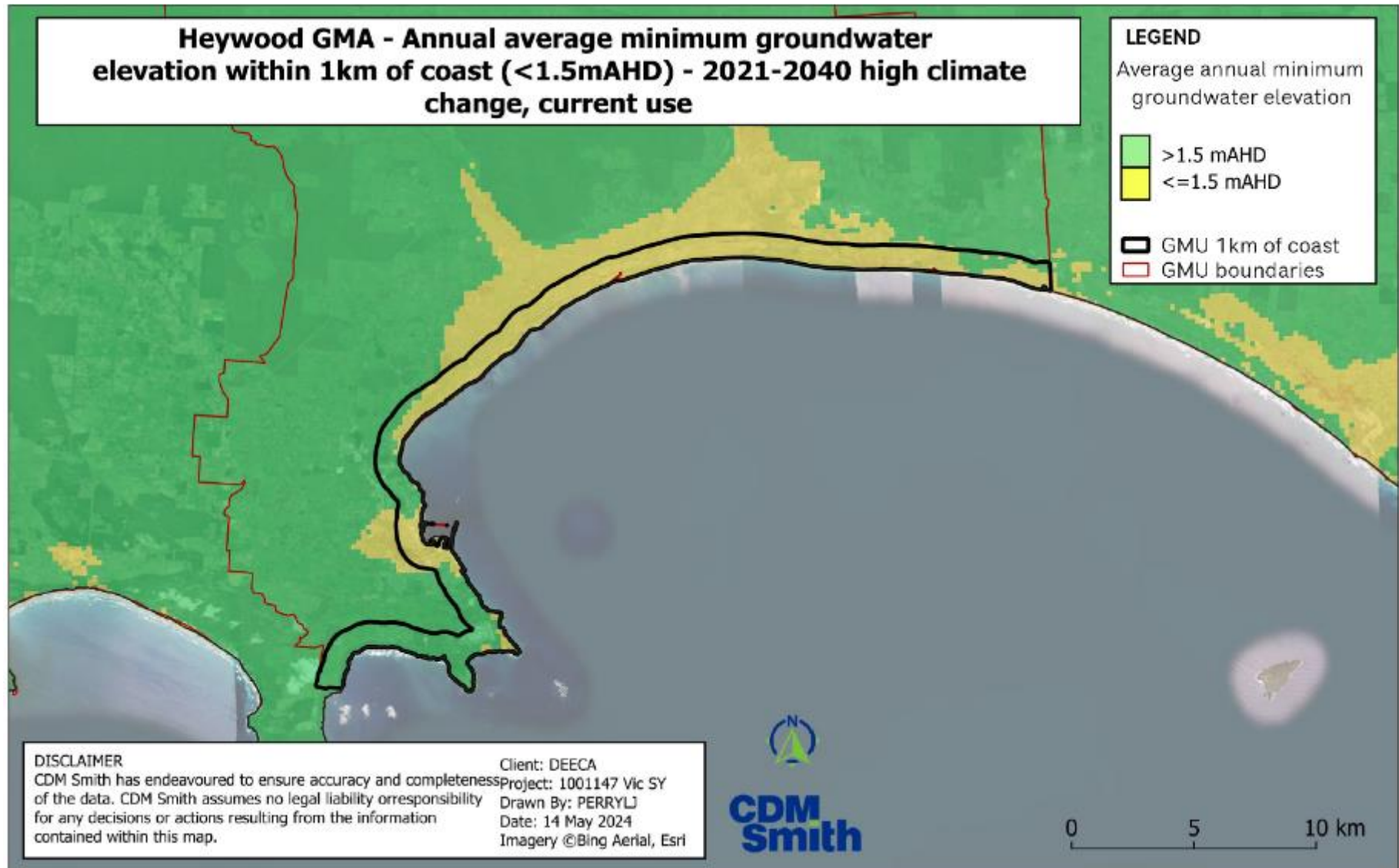


Figure PP-51 Seawater intrusion analysis area for the Heywood GMA - 2021-2040 high climate change and current groundwater use.

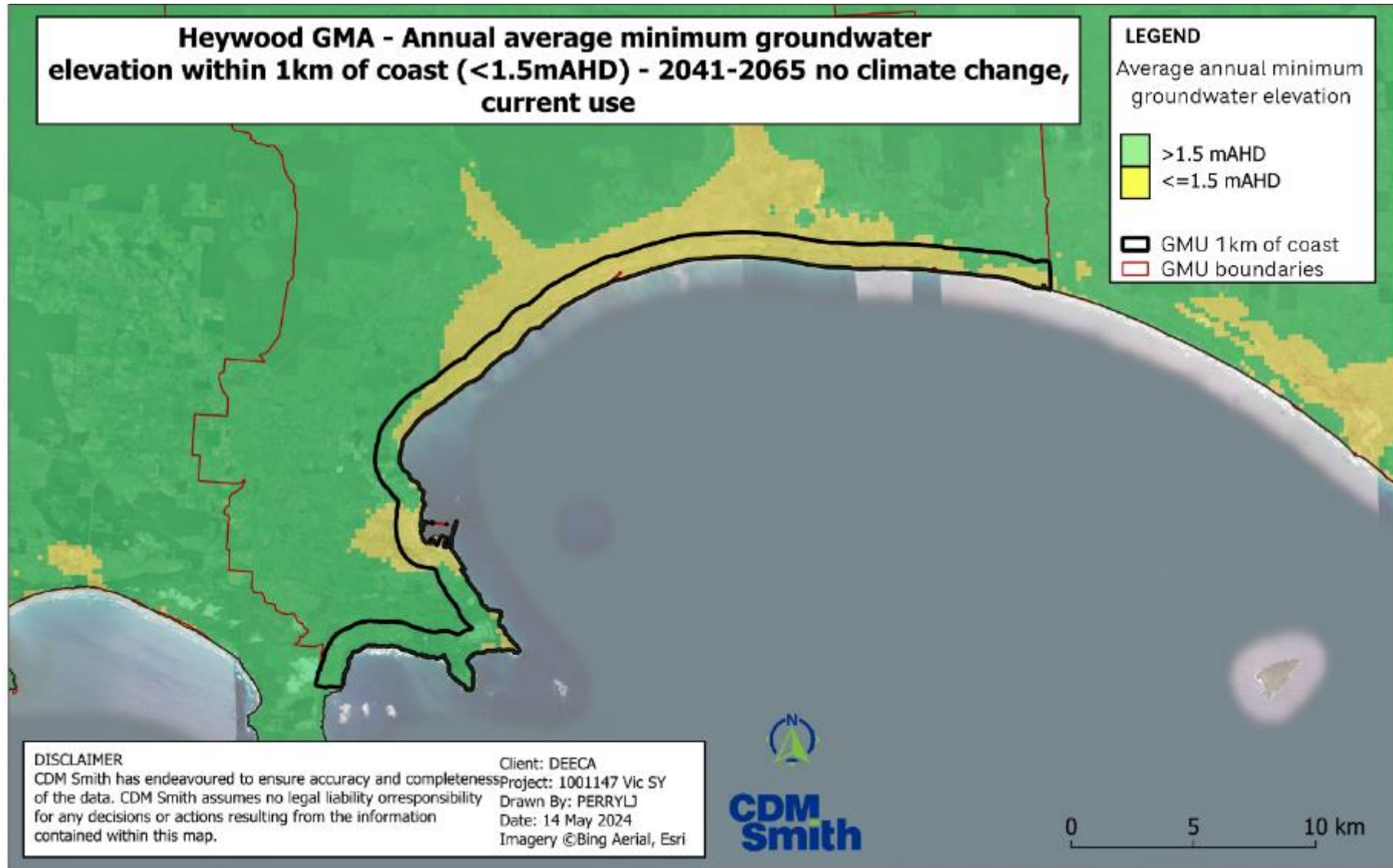


Figure PP-52 Seawater intrusion analysis area for the Heywood GMA - 2041-2065 no climate change and current groundwater use.

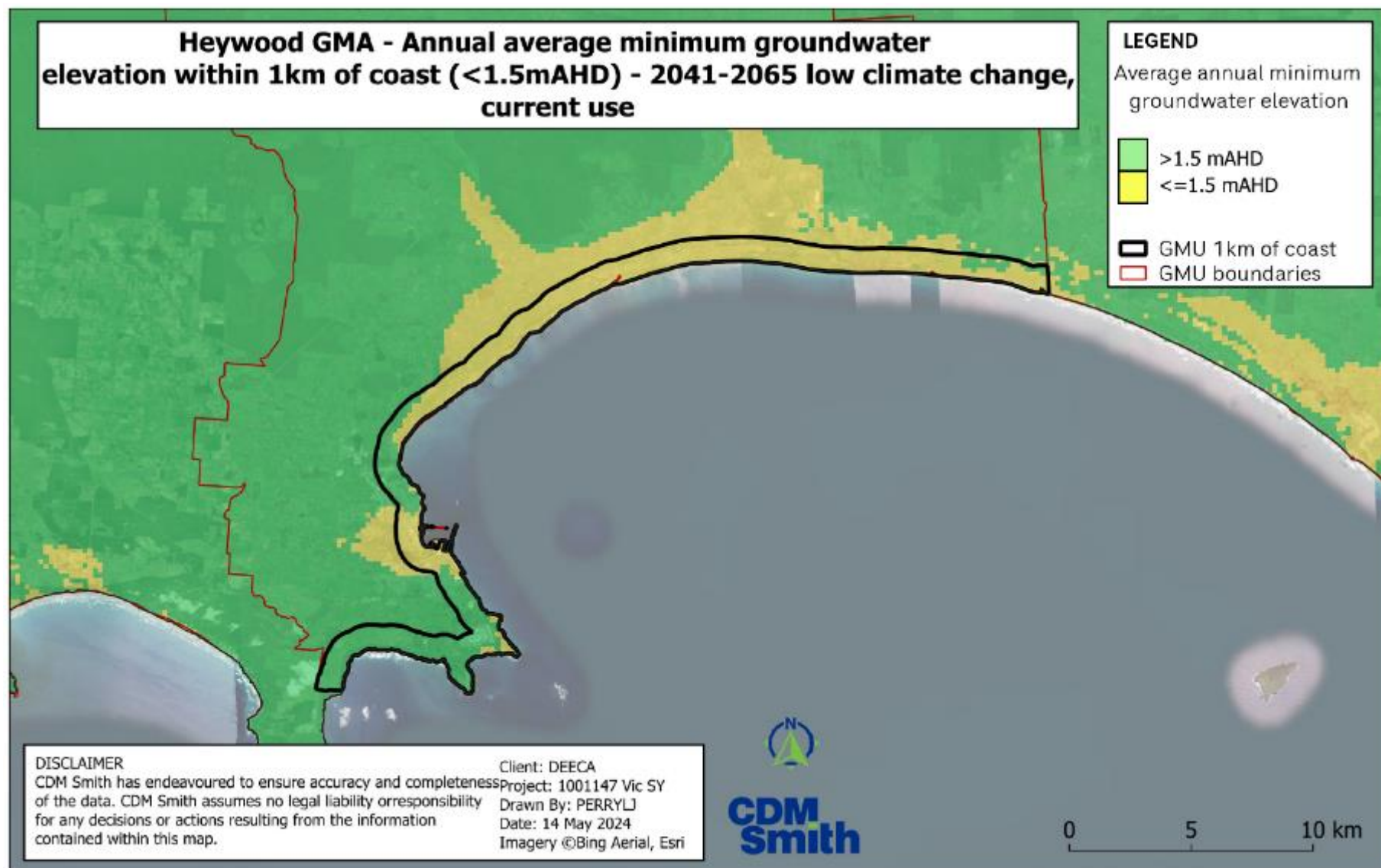


Figure PP-53 Seawater intrusion analysis area for the Heywood GMA - 2041-2065 low climate change and current groundwater use.

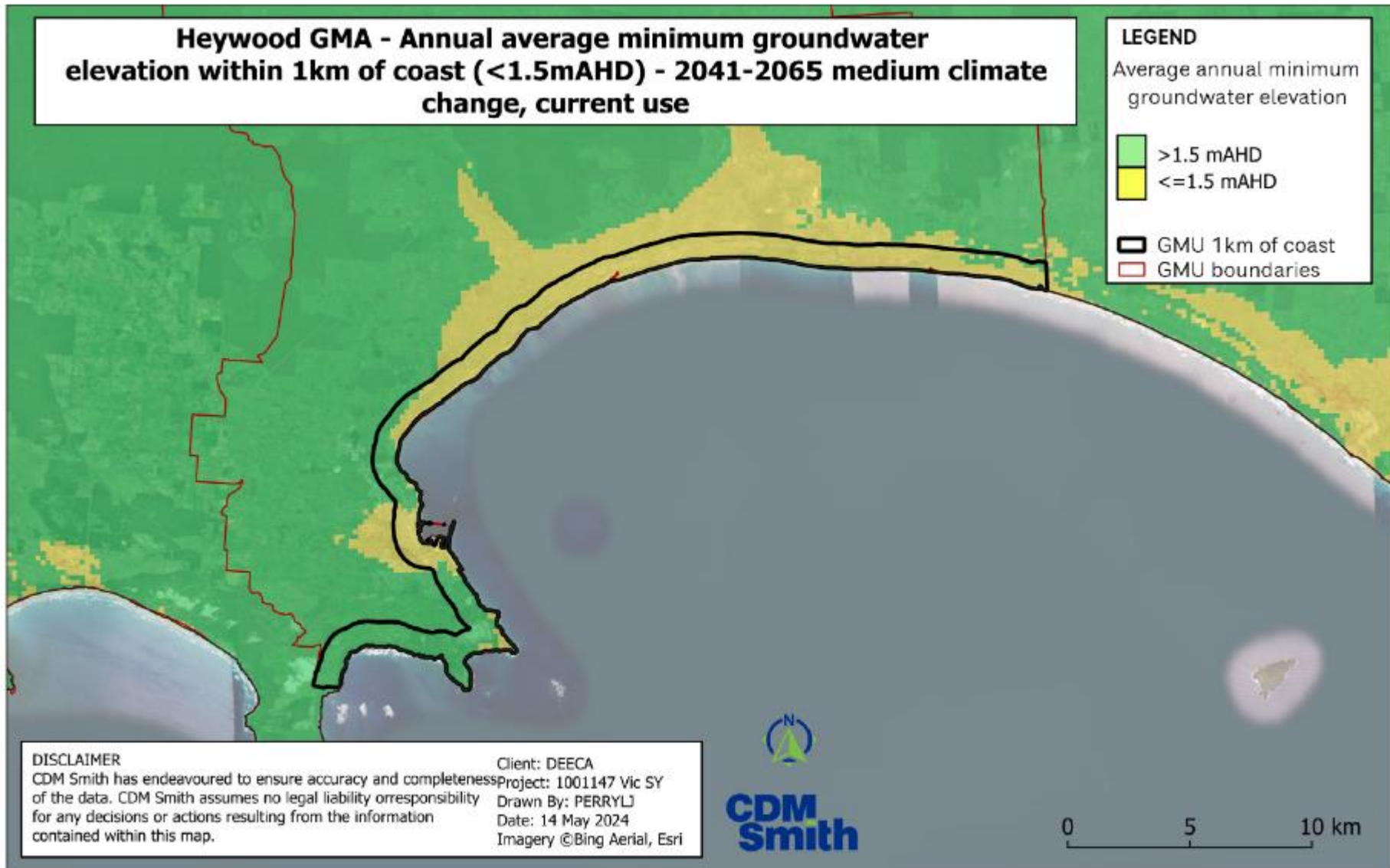


Figure PP-54 Seawater intrusion analysis area for the Heywood GMA - 2041-2065 medium climate change and current groundwater use.

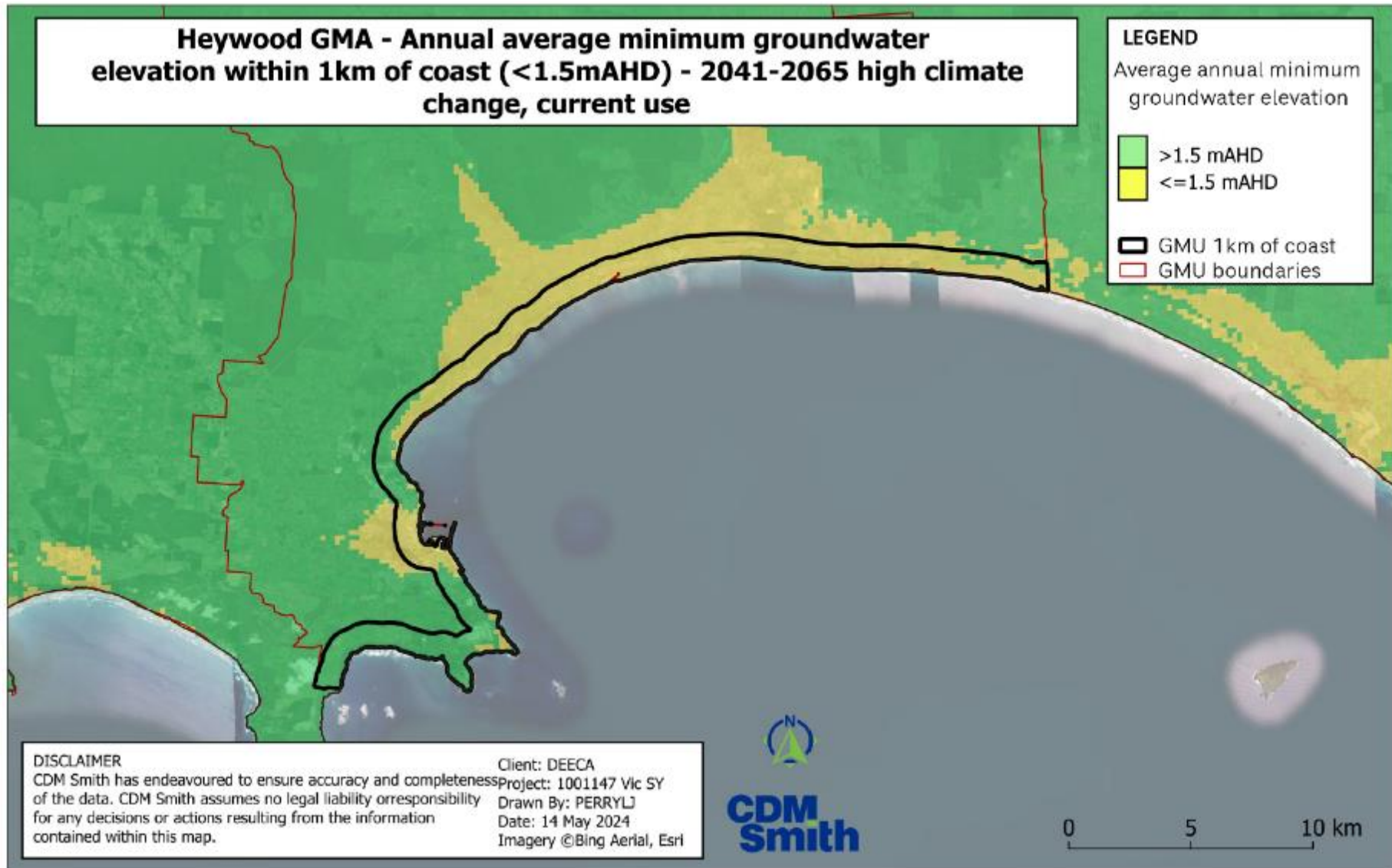


Figure PP-55 Seawater intrusion analysis area for the Heywood GMA - 2041-2065 high climate change and current groundwater use.

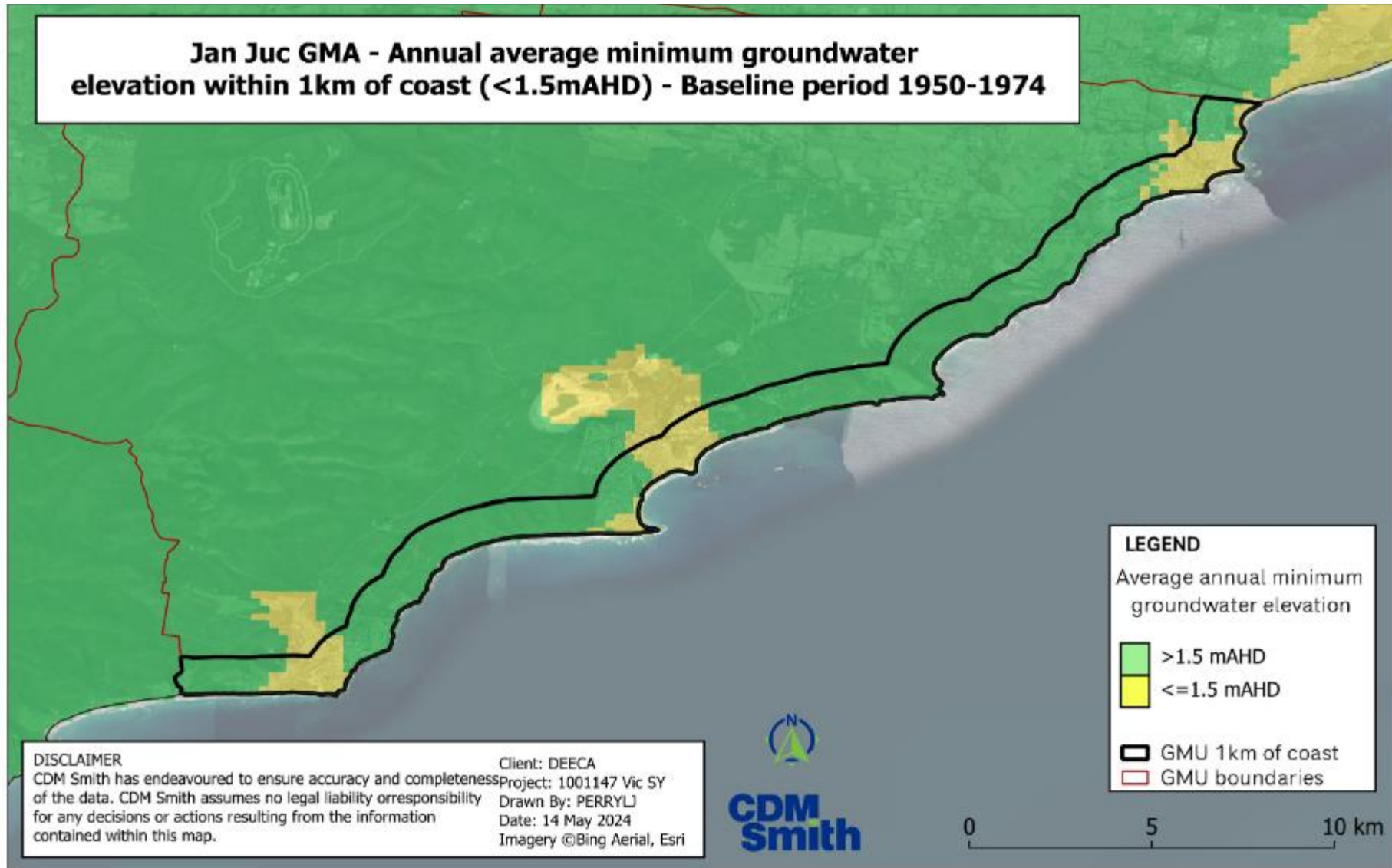


Figure PP-56 Seawater intrusion analysis area for the Jan Juc GMA - Baseline 1950-1974.

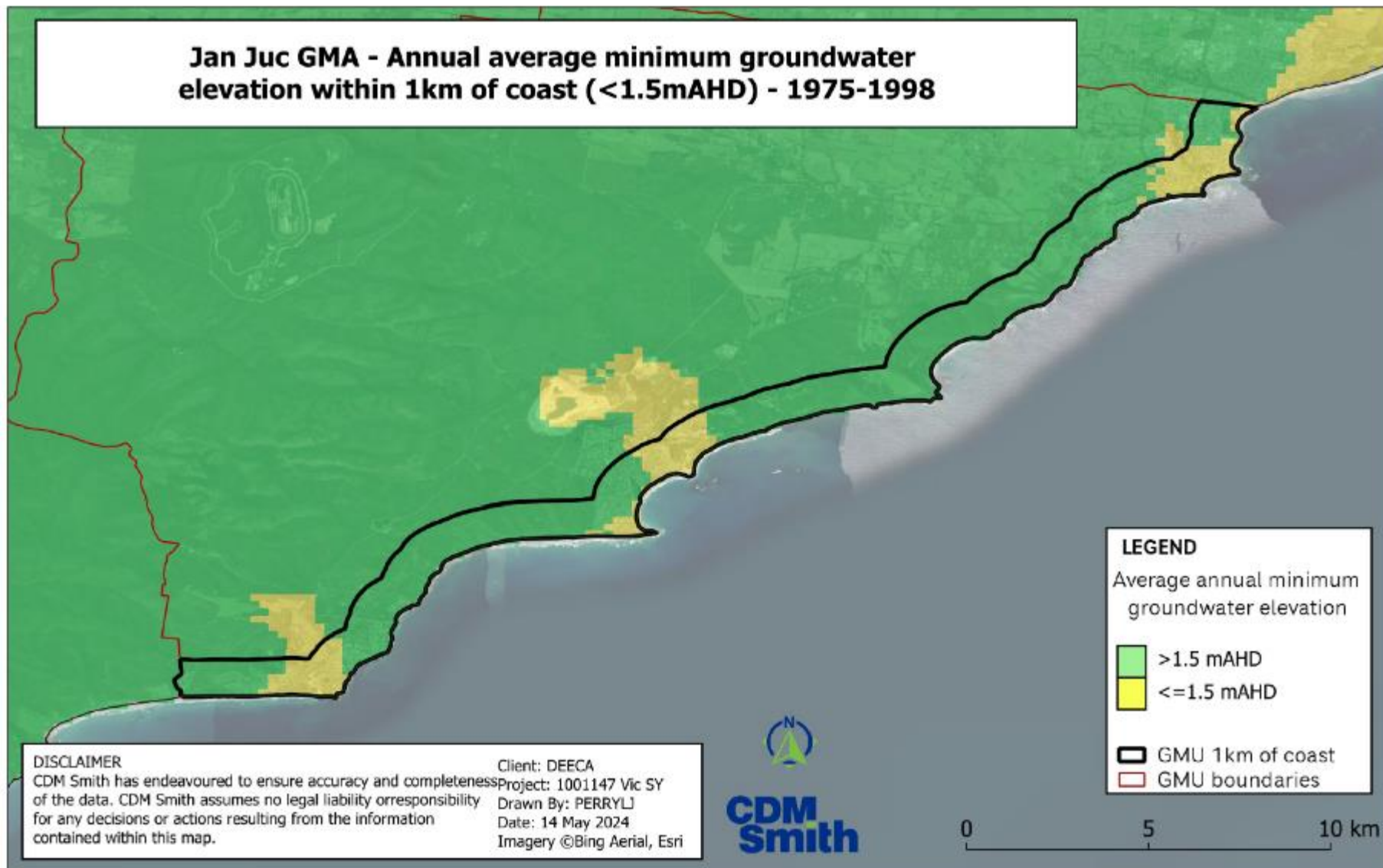


Figure PP-57 Seawater intrusion analysis area for the Jan Juc GMA - 1975-1997.

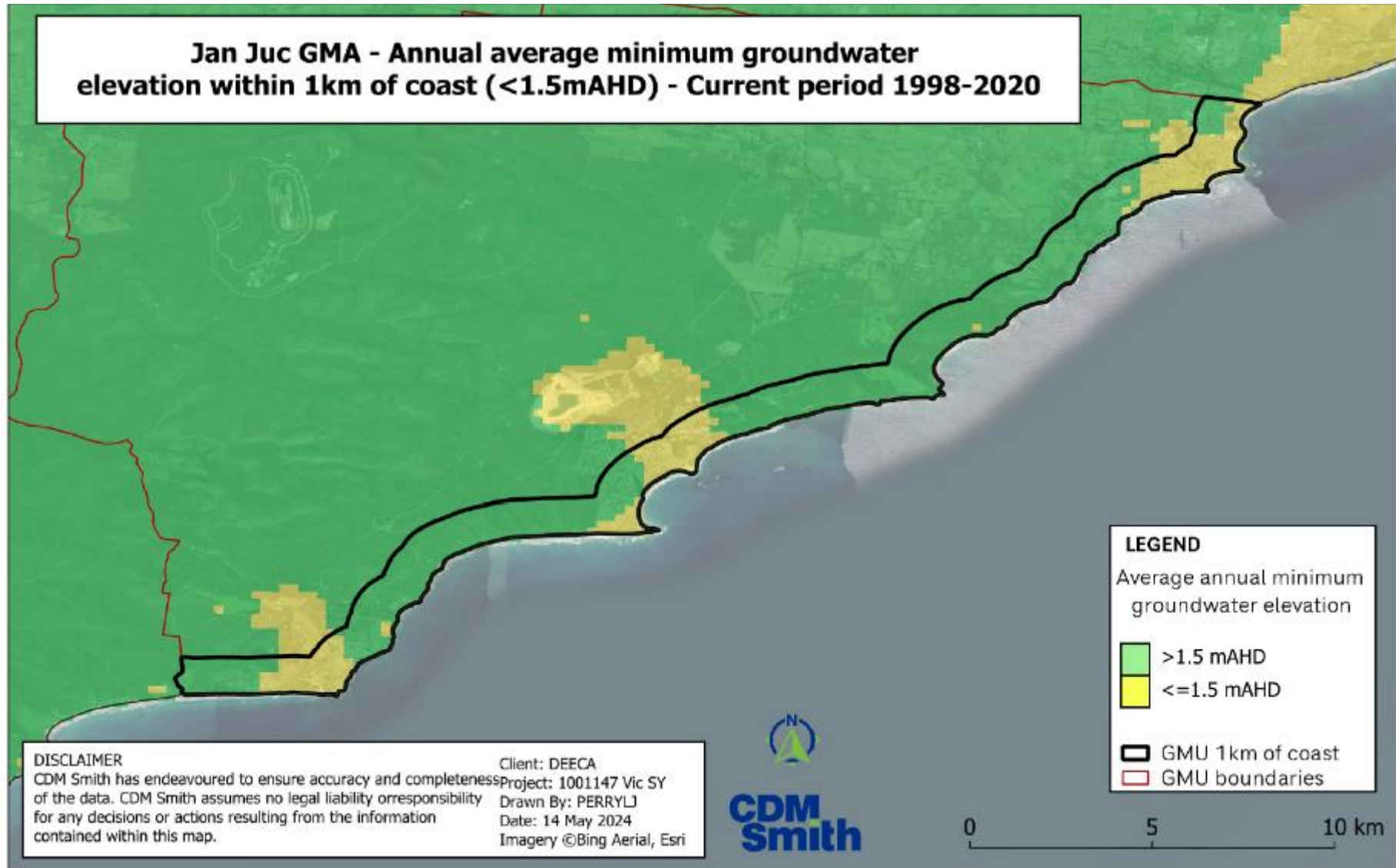


Figure PP-58 Seawater intrusion analysis area for the Jan Juc GMA – 1998-2020.

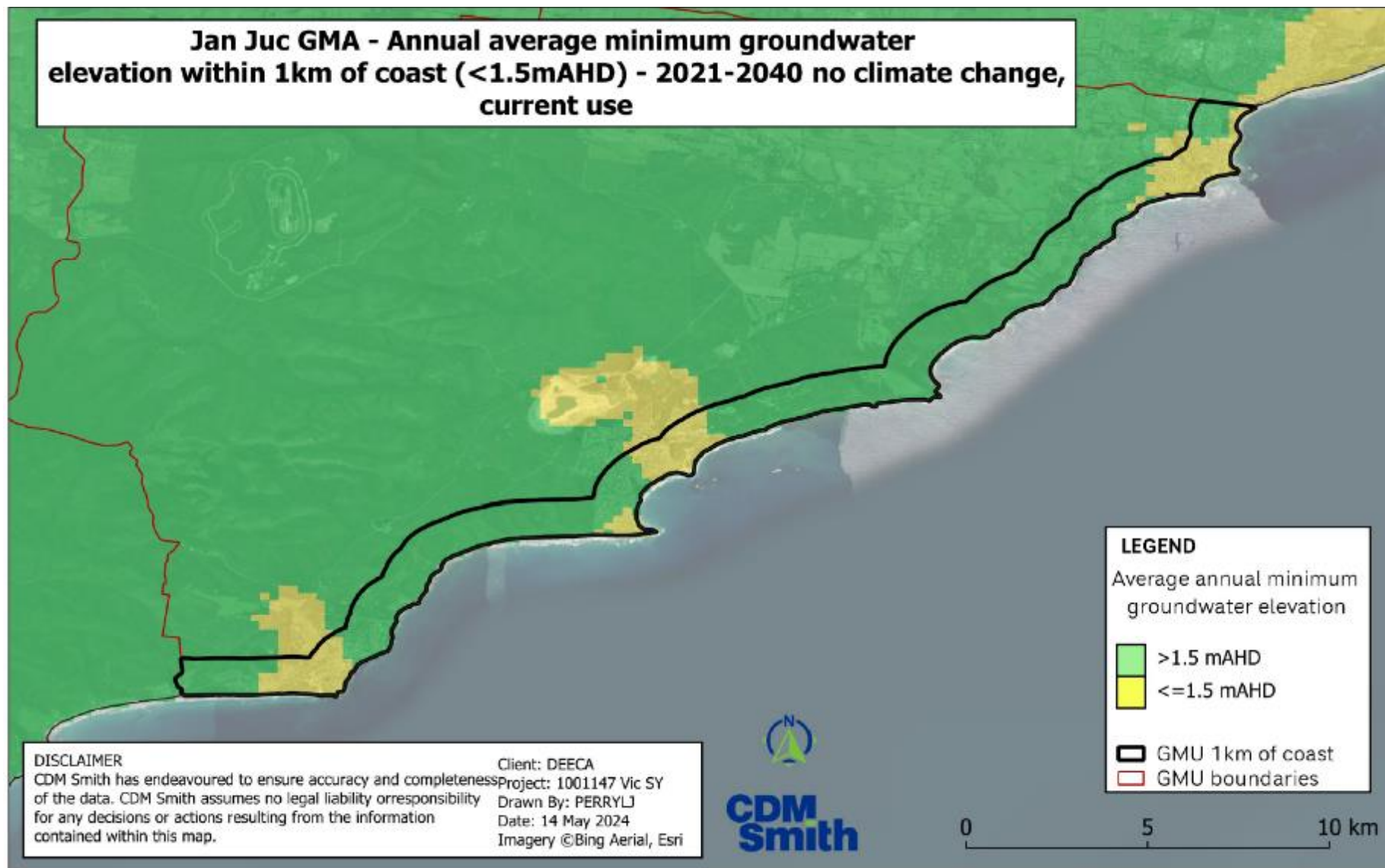


Figure PP-59 Seawater intrusion analysis area for the Jan Juc GMA - 2021-2040 no climate change and current groundwater use.

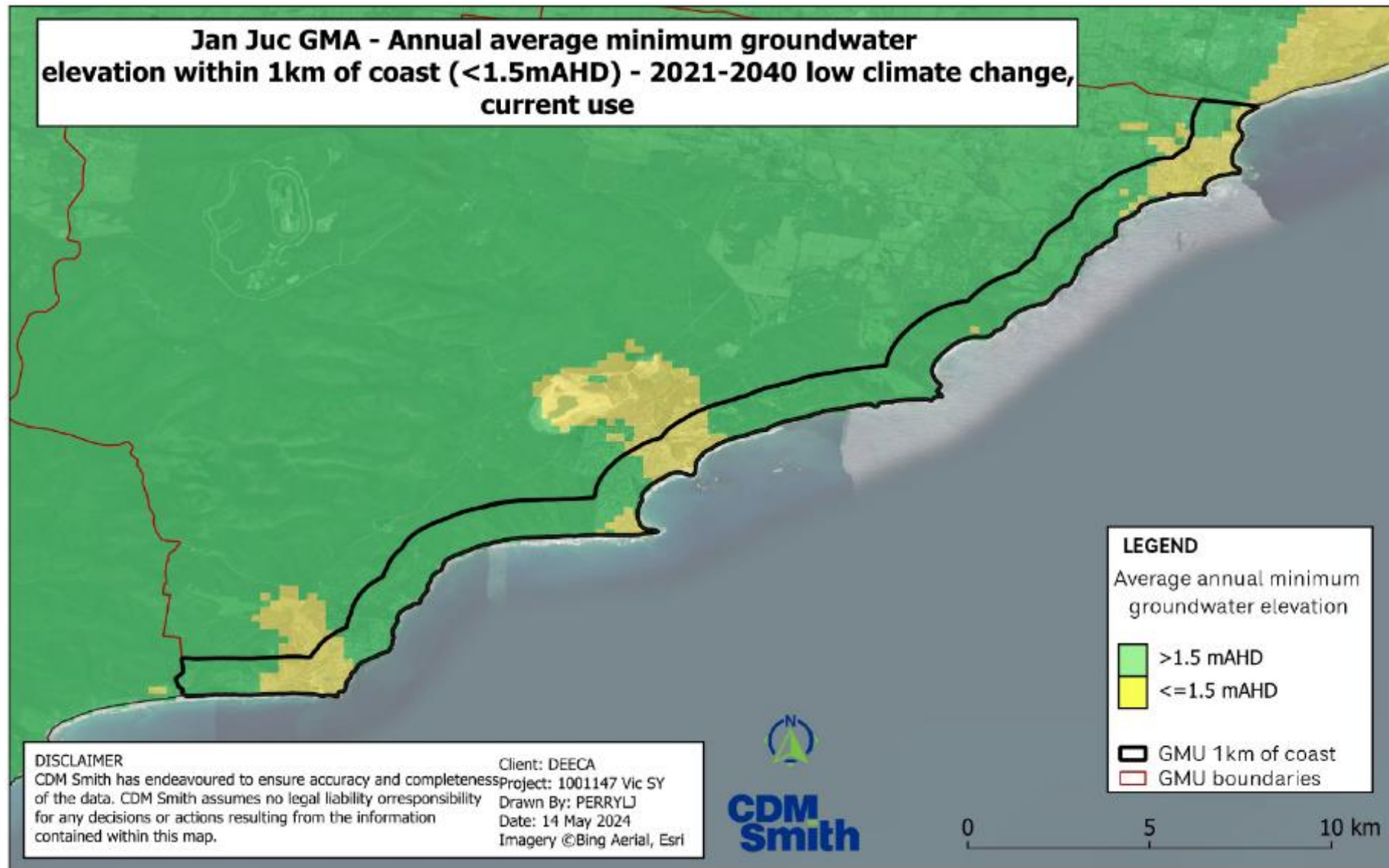


Figure PP-60 Seawater intrusion analysis area for the Jan Juc GMA – 2021-2040 low climate change and current groundwater use.

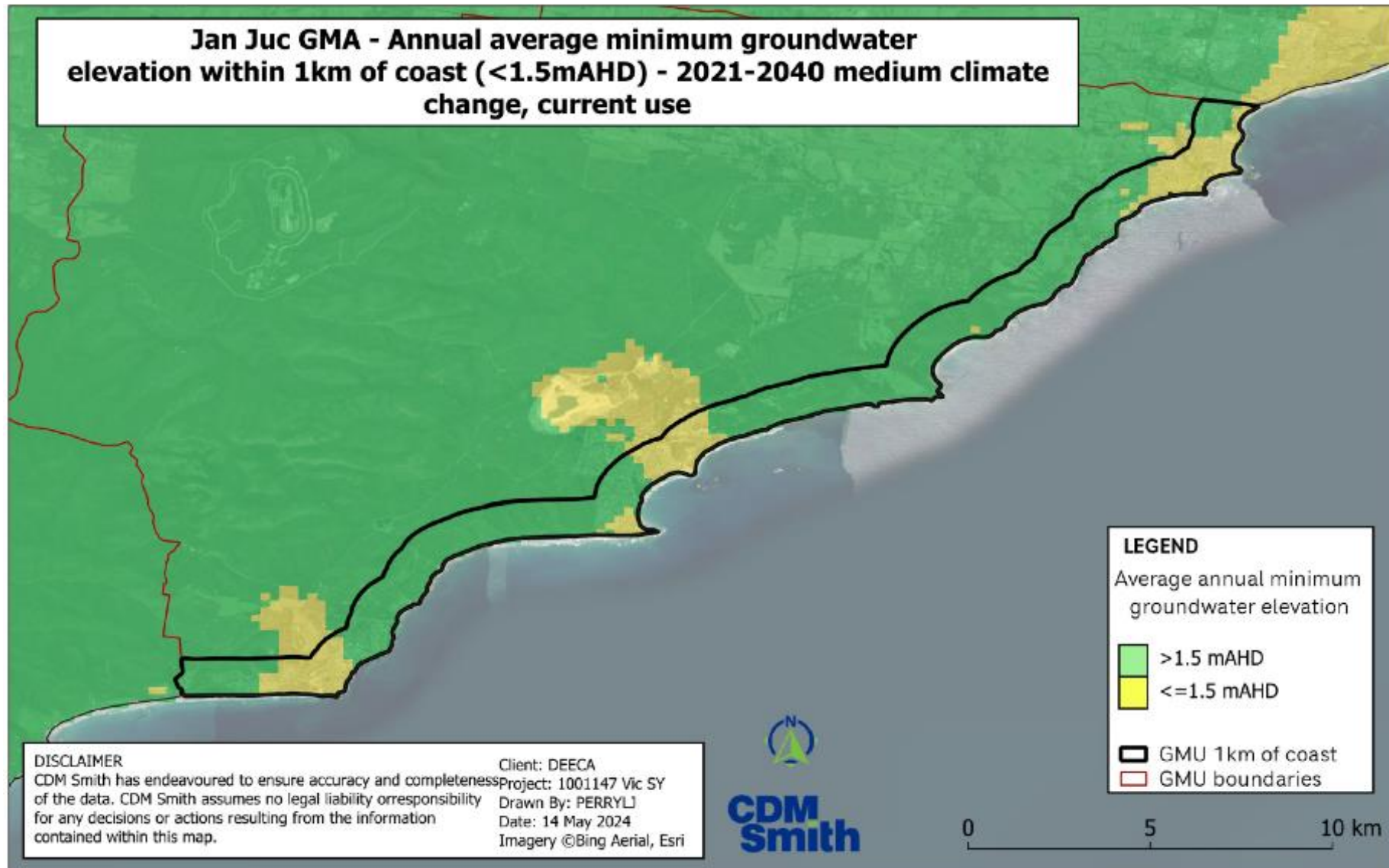


Figure PP-61 Seawater intrusion analysis area for the Jan Juc GMA - 2021-2040 medium climate change and current groundwater use.

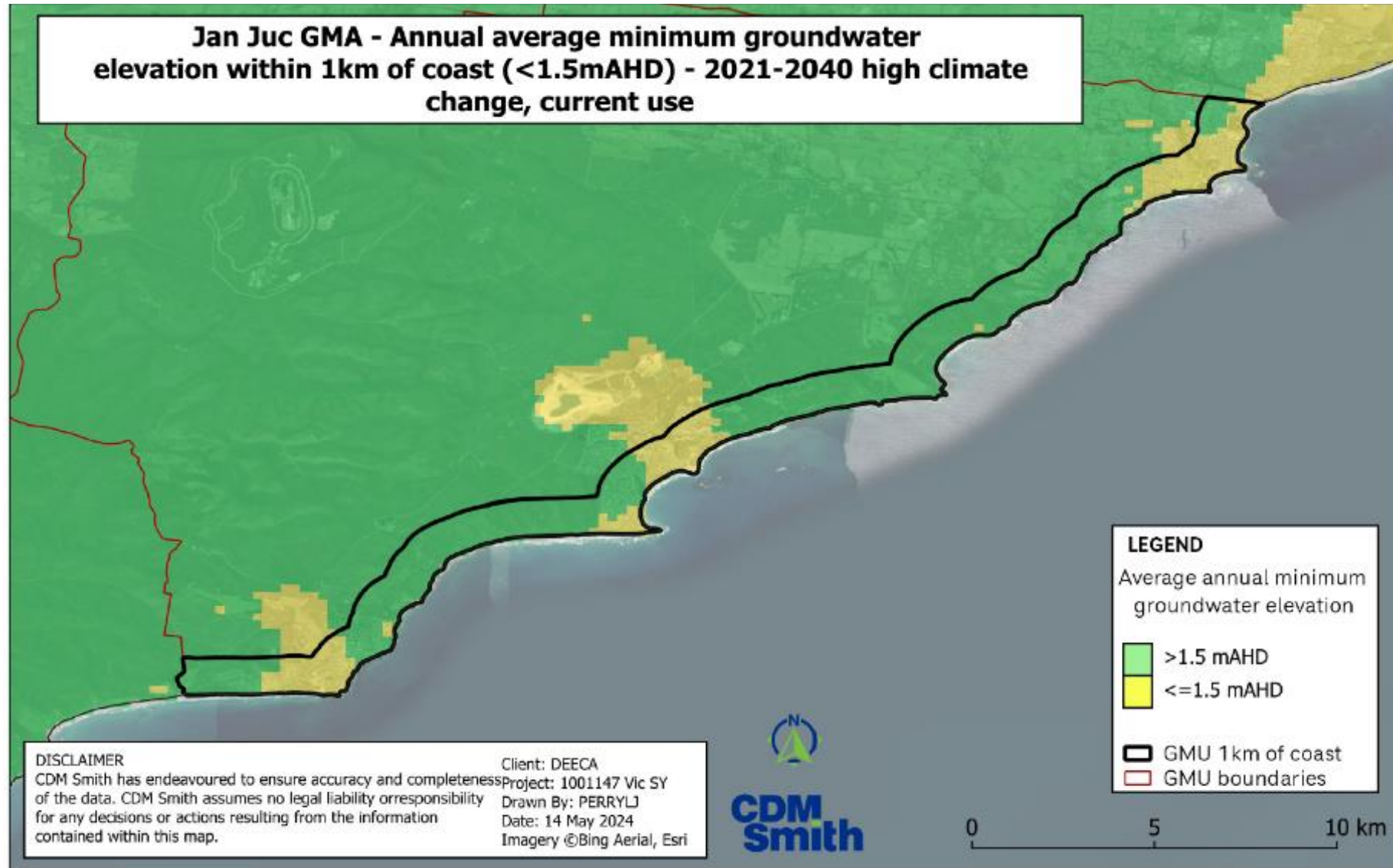


Figure PP-62 Seawater intrusion analysis area for the Jan Juc GMA - 2021-2040 high climate change and current groundwater use.

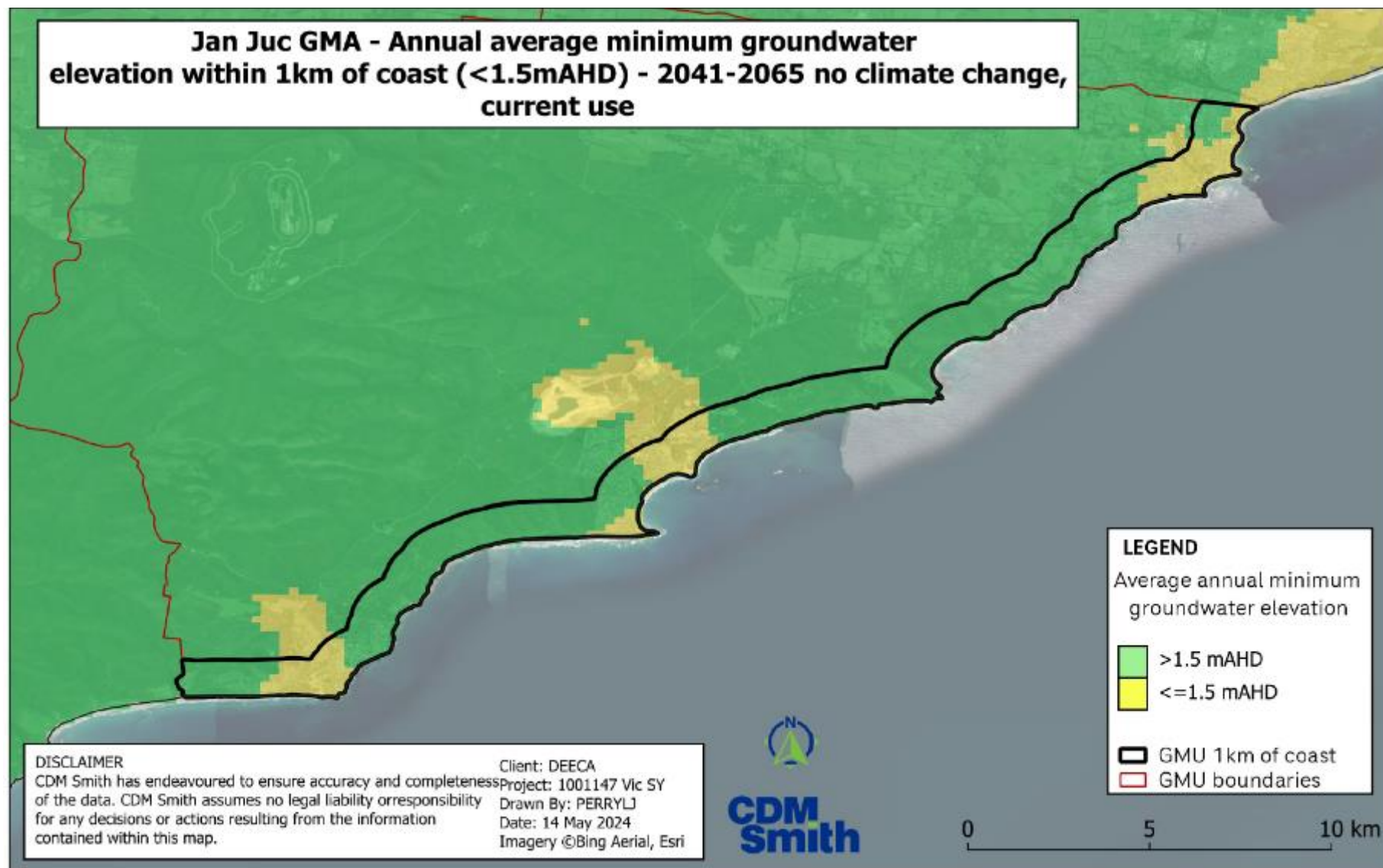


Figure PP-63 Seawater intrusion analysis area for the Jan Juc GMA - 2041-2065 no climate change and current groundwater use.

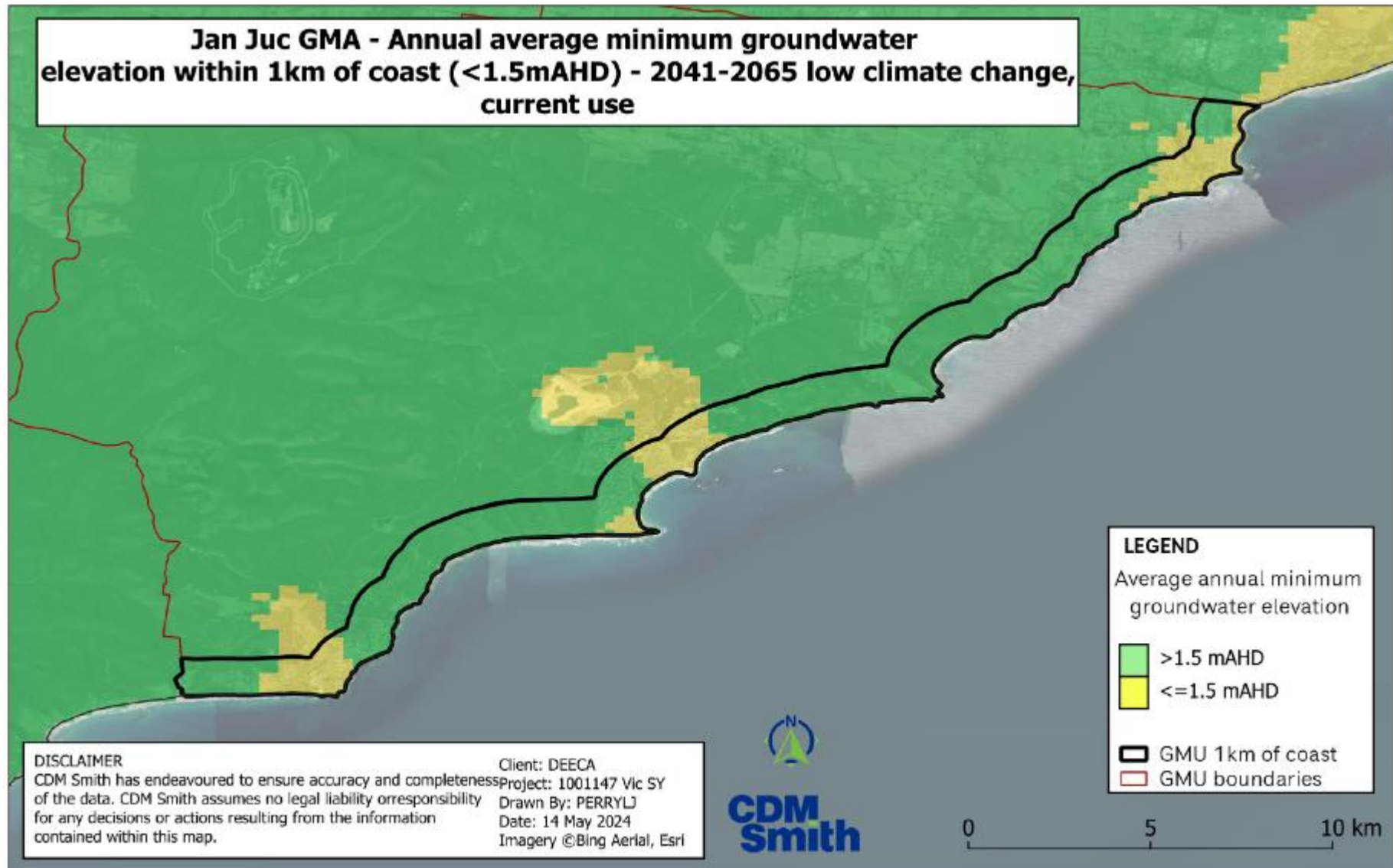


Figure PP-64 Seawater intrusion analysis area for the Jan Juc GMA - 2041-2065 low climate change and current groundwater use.

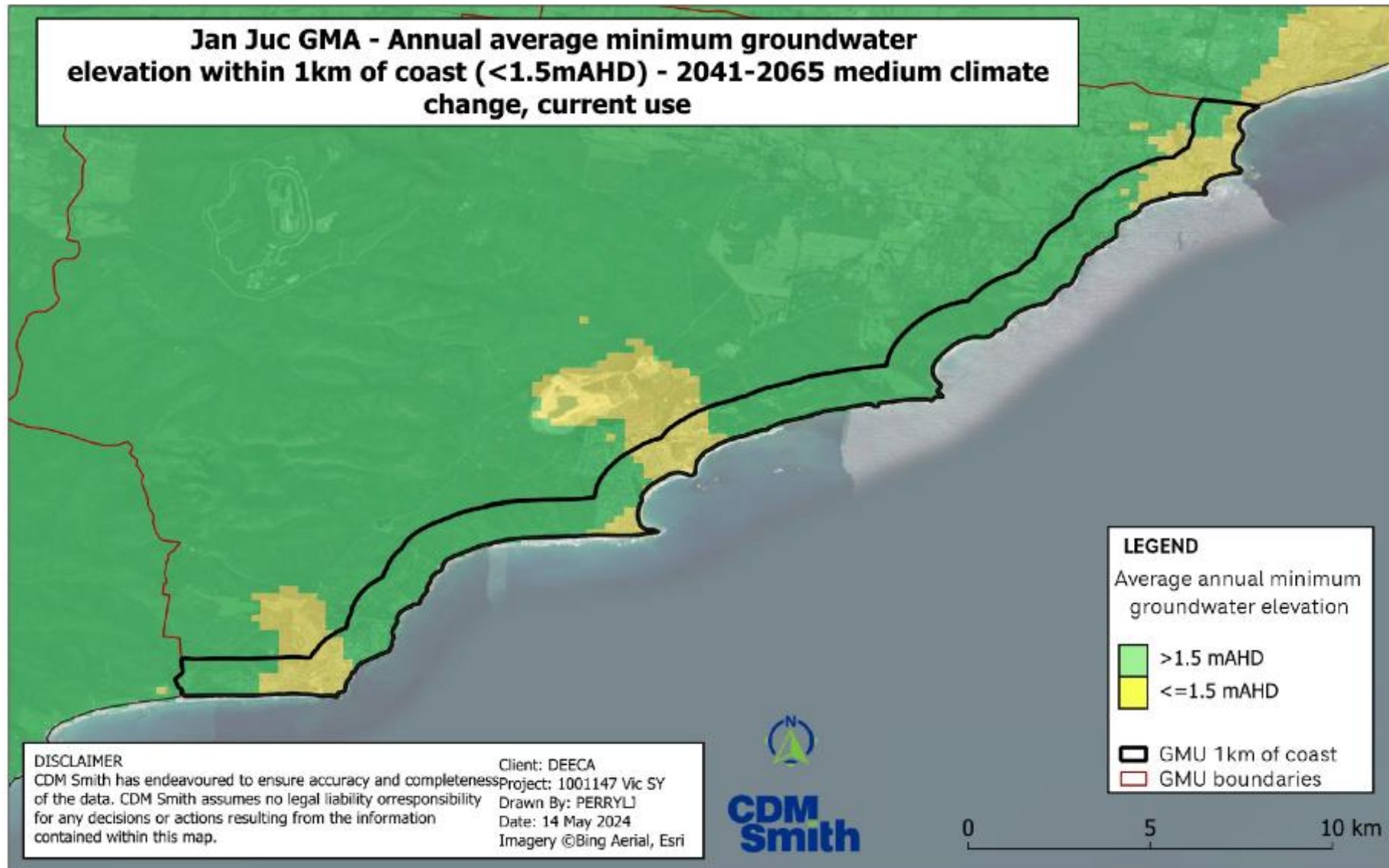


Figure PP-65 Seawater intrusion analysis area for the Jan Juc GMA - 2041-2065 medium climate change and current groundwater use.

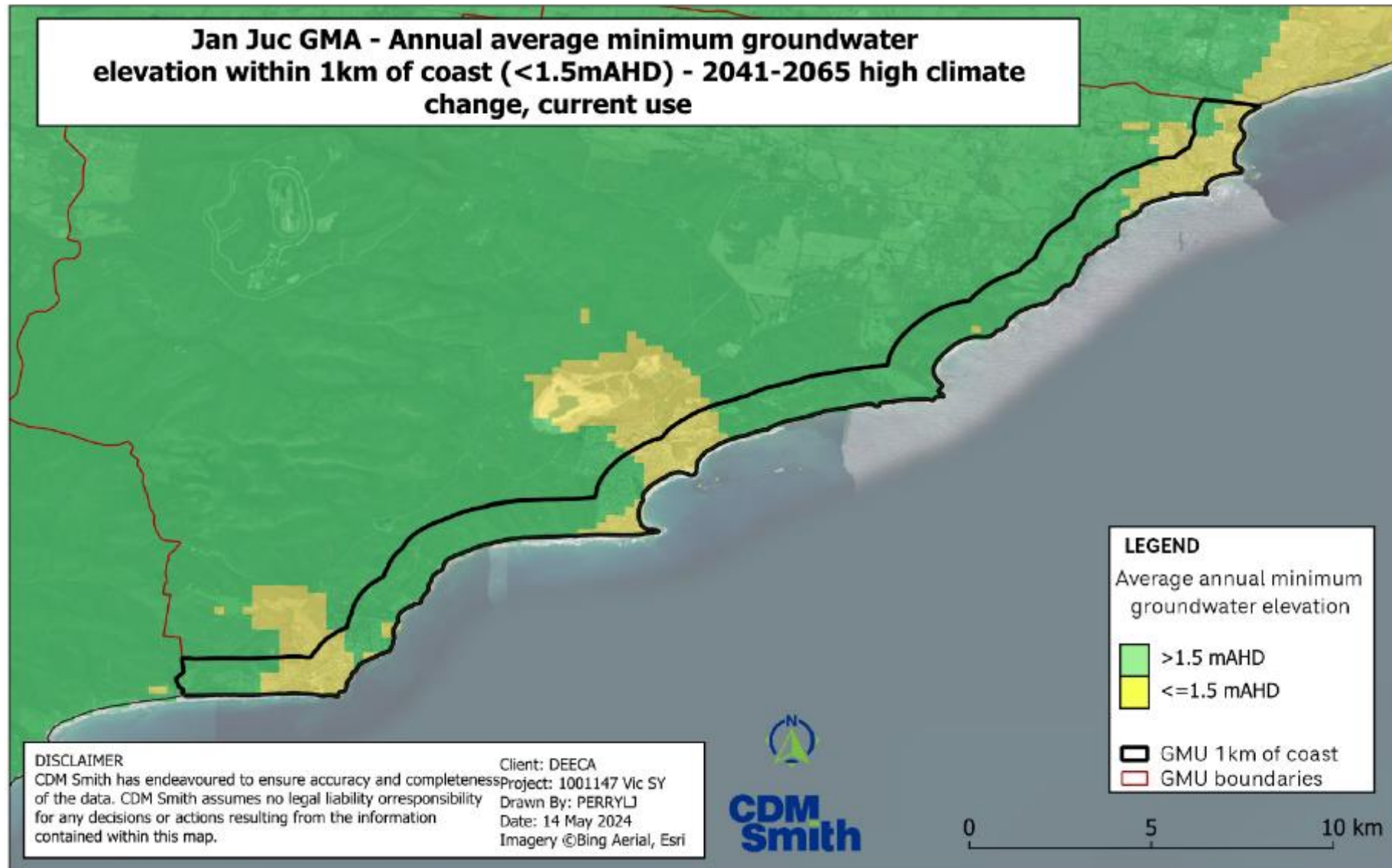


Figure PP-66 Seawater intrusion analysis area for the Jan Juc GMA - 2041-2065 high climate change and current groundwater use.

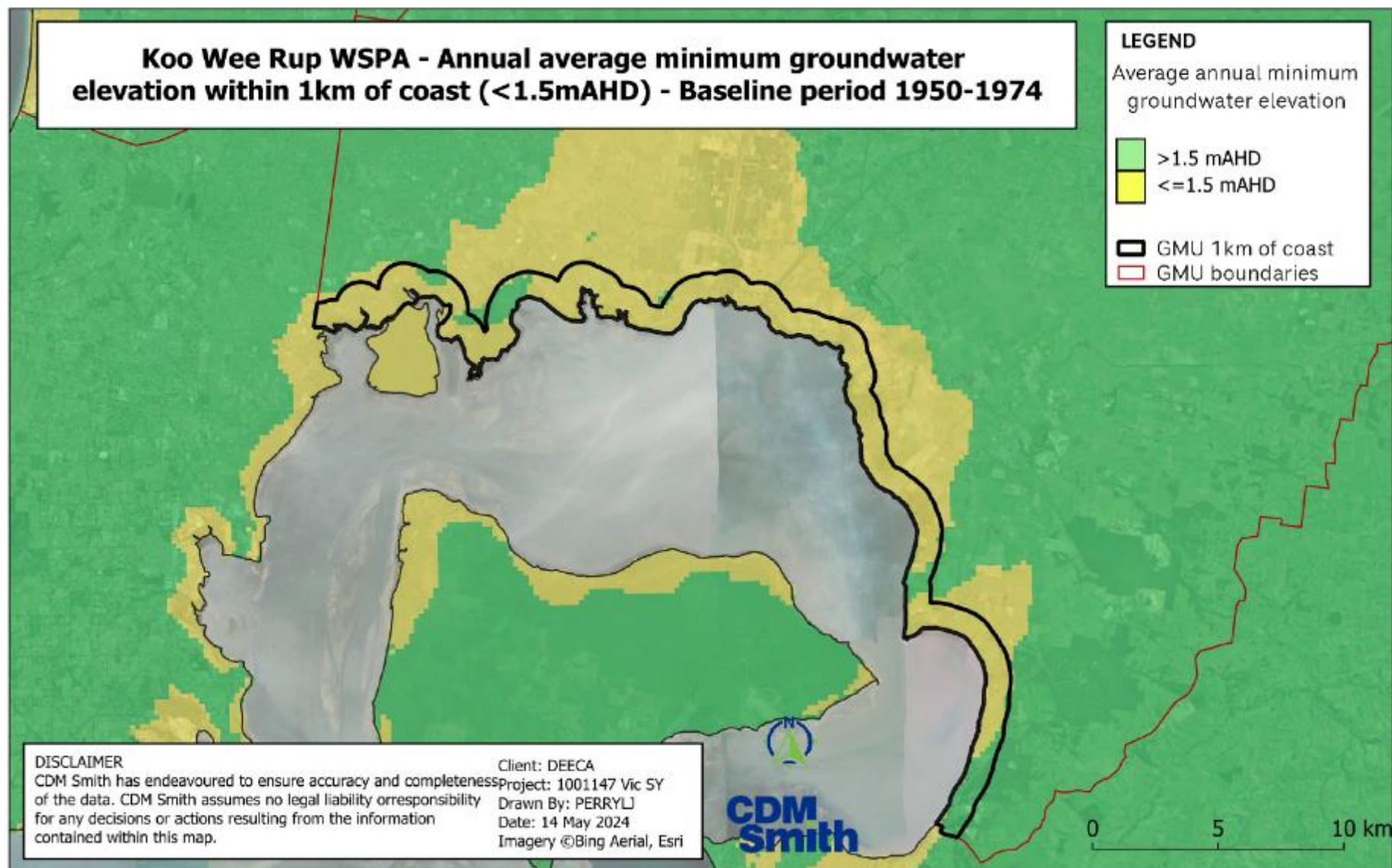


Figure PP-67 Seawater intrusion analysis area for the Koo Wee Rup GMA - Baseline 1950-1974.

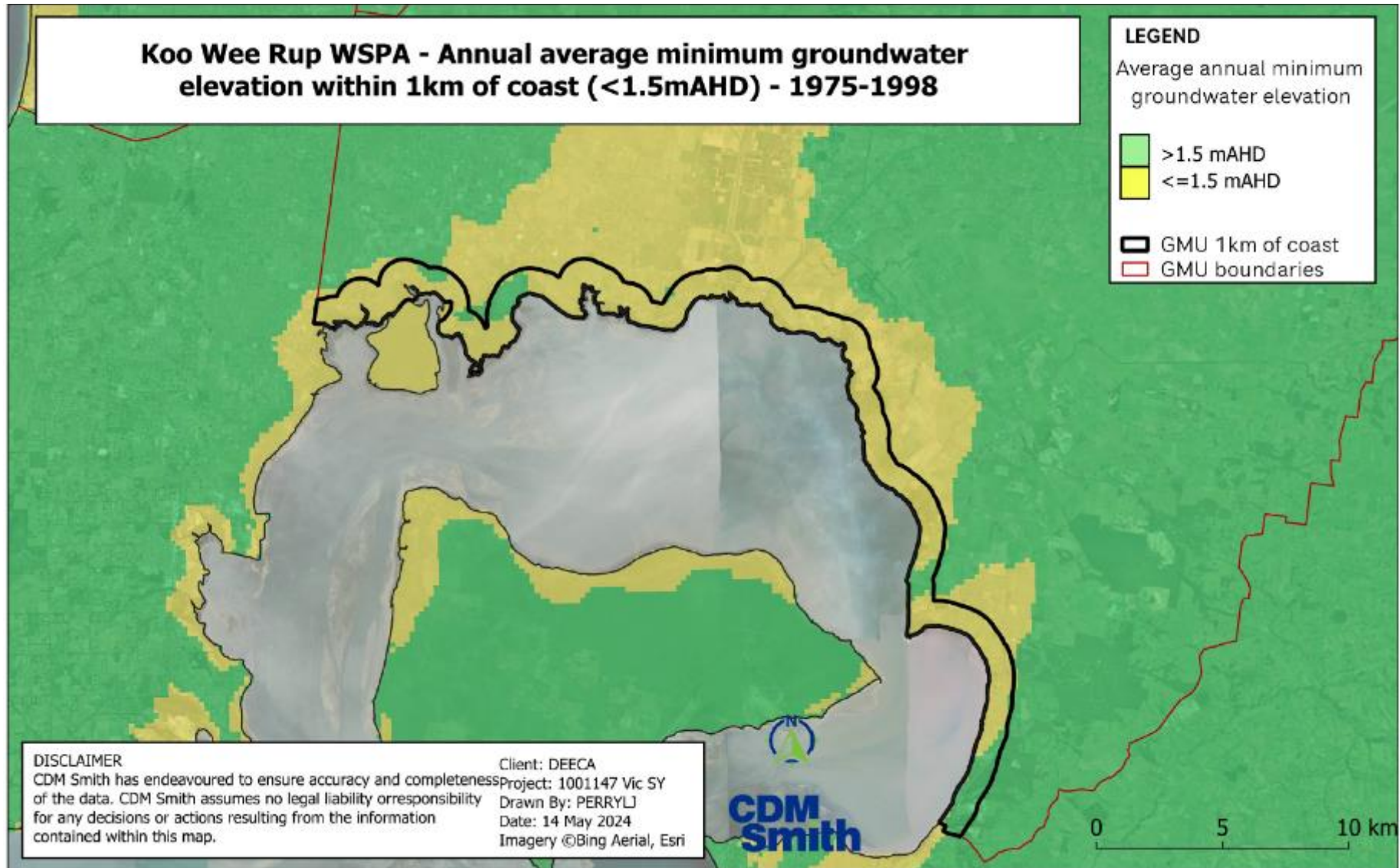


Figure PP-68 Seawater intrusion analysis area for the Koo Wee Rup GMA - 1975-1997.

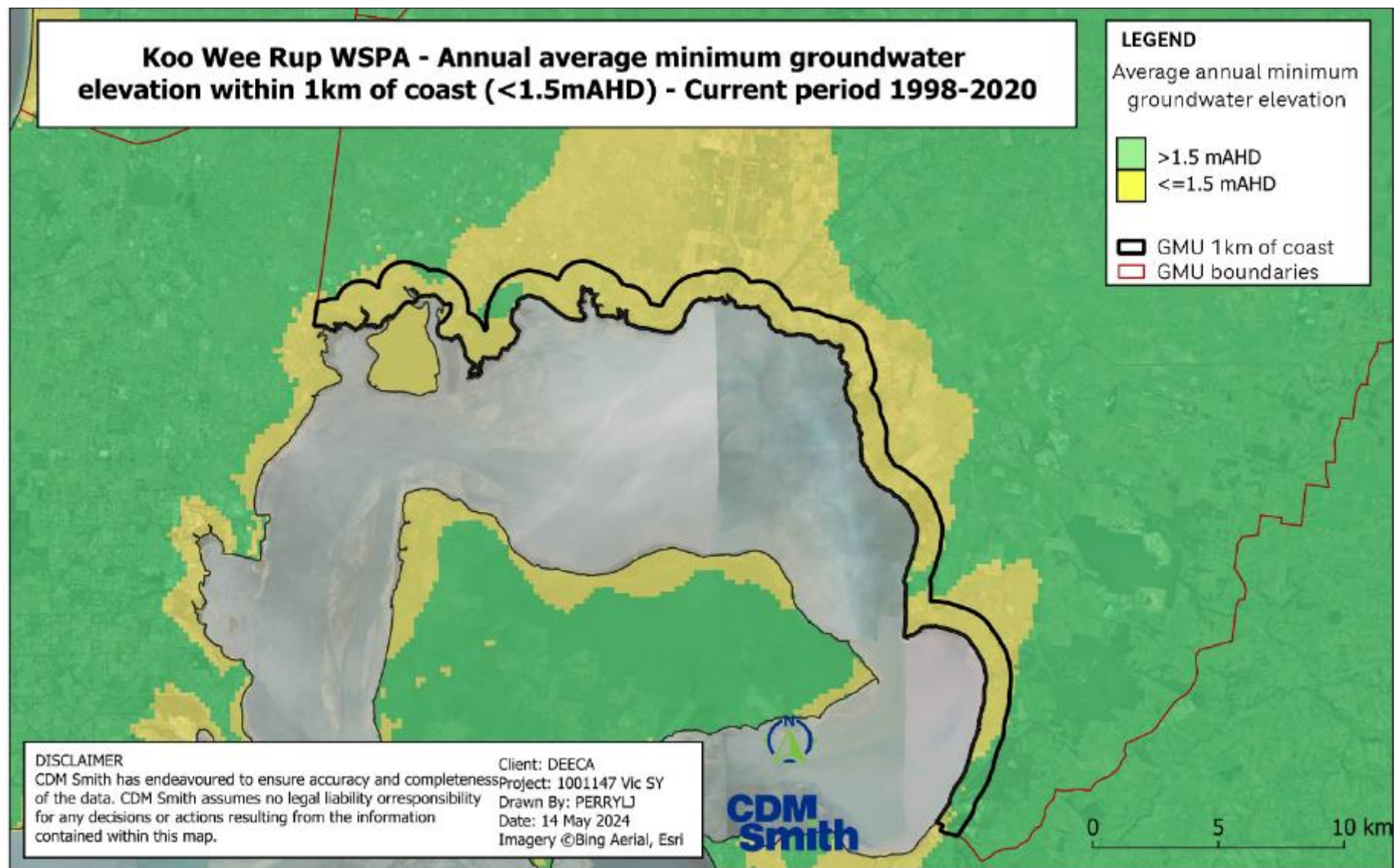


Figure PP-69 Seawater intrusion analysis area for the Koo Wee Rup GMA - 1998-2020.

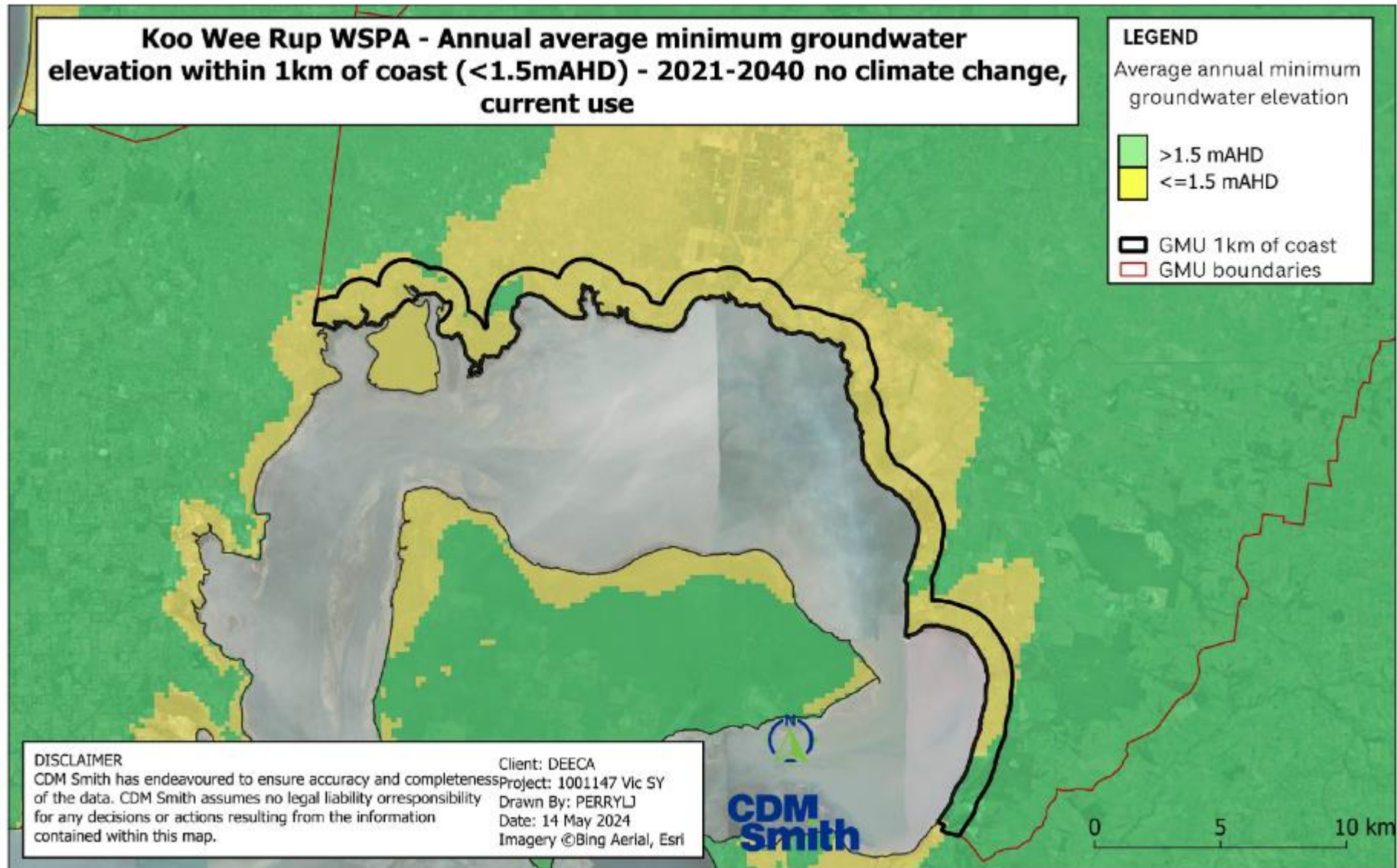


Figure PP-70 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2021-2040 no climate change and current groundwater use.

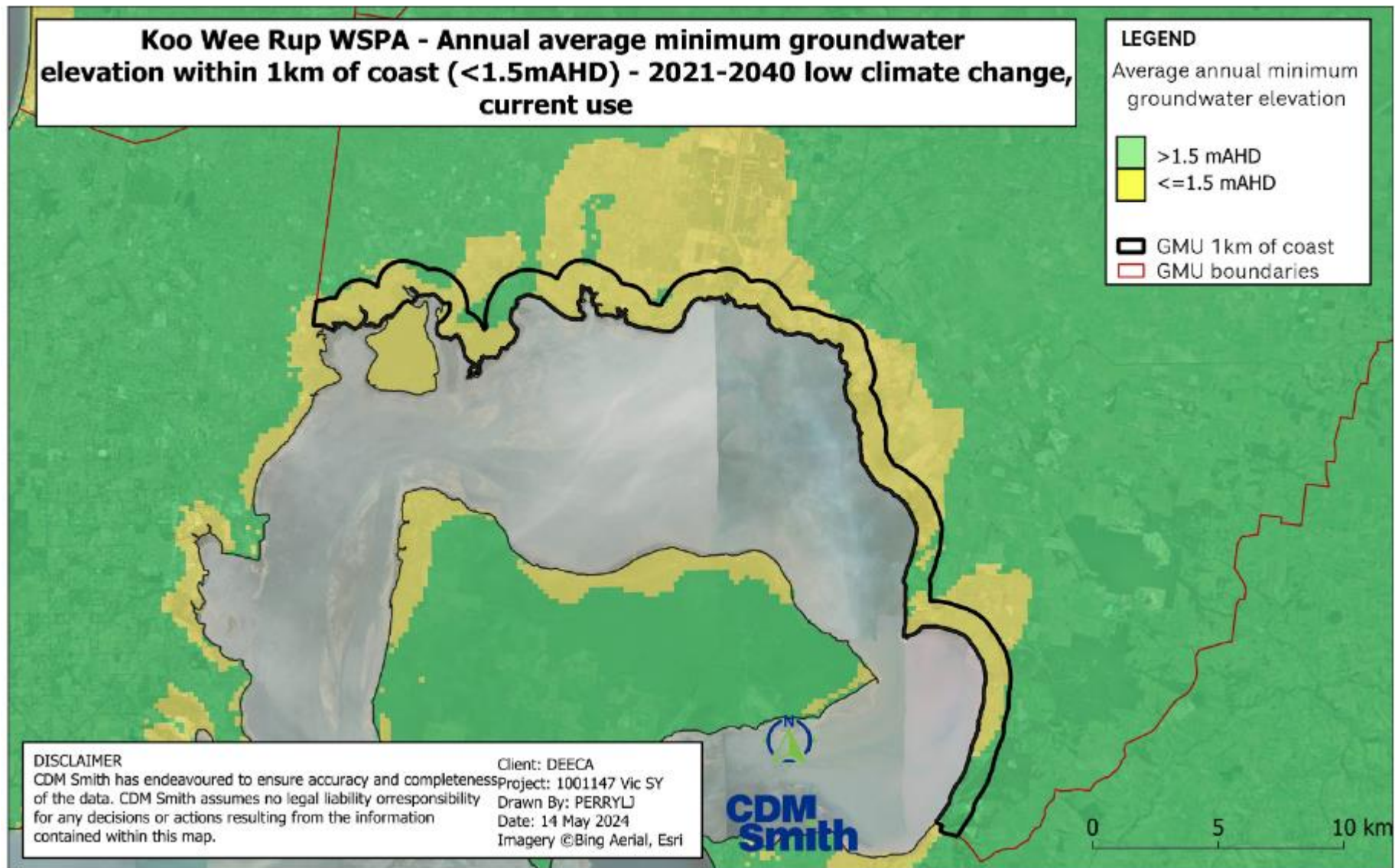


Figure PP-71 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2021-2040 low climate change and current groundwater use.

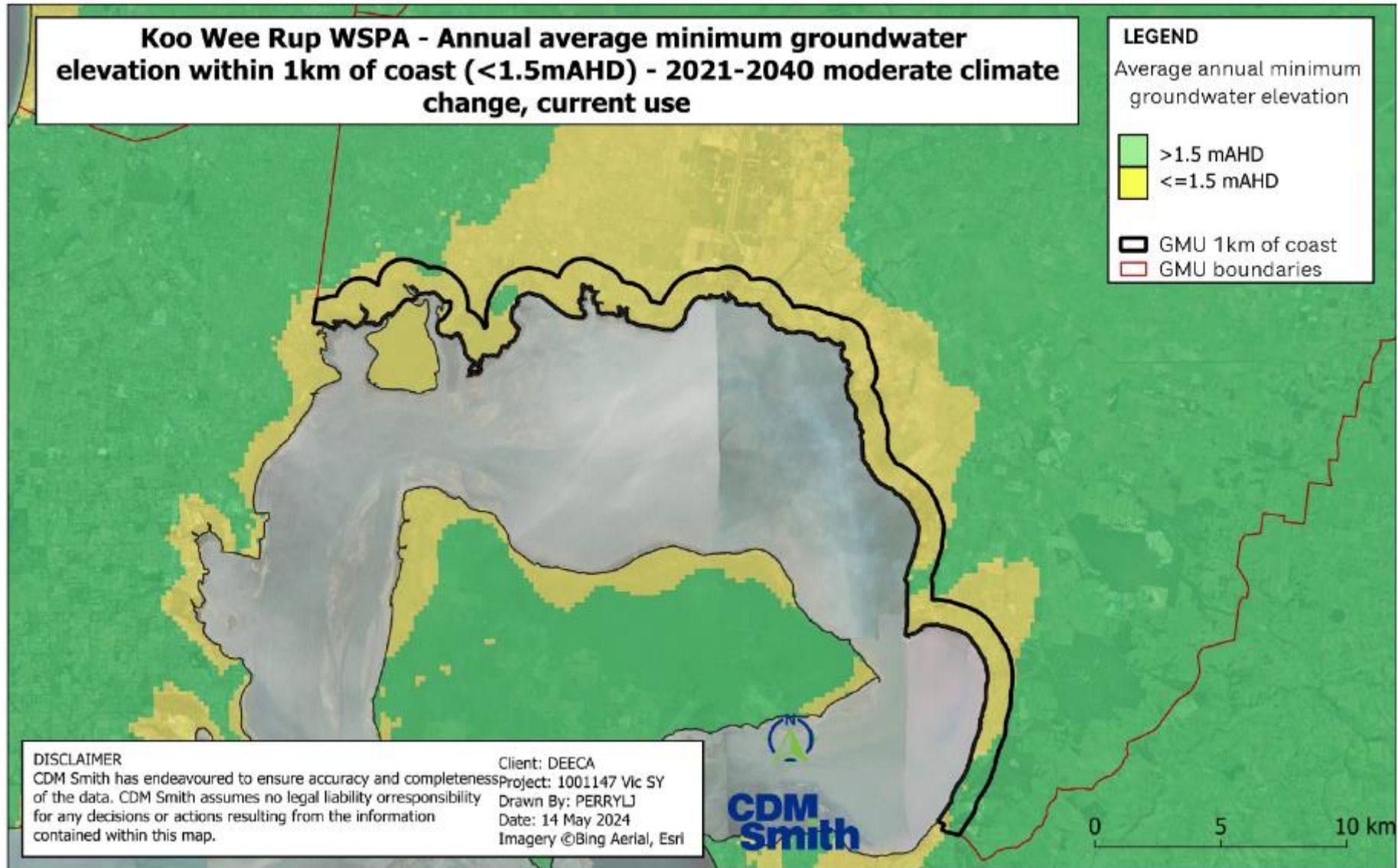


Figure PP-72 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2021-2040 medium climate change and current groundwater use.

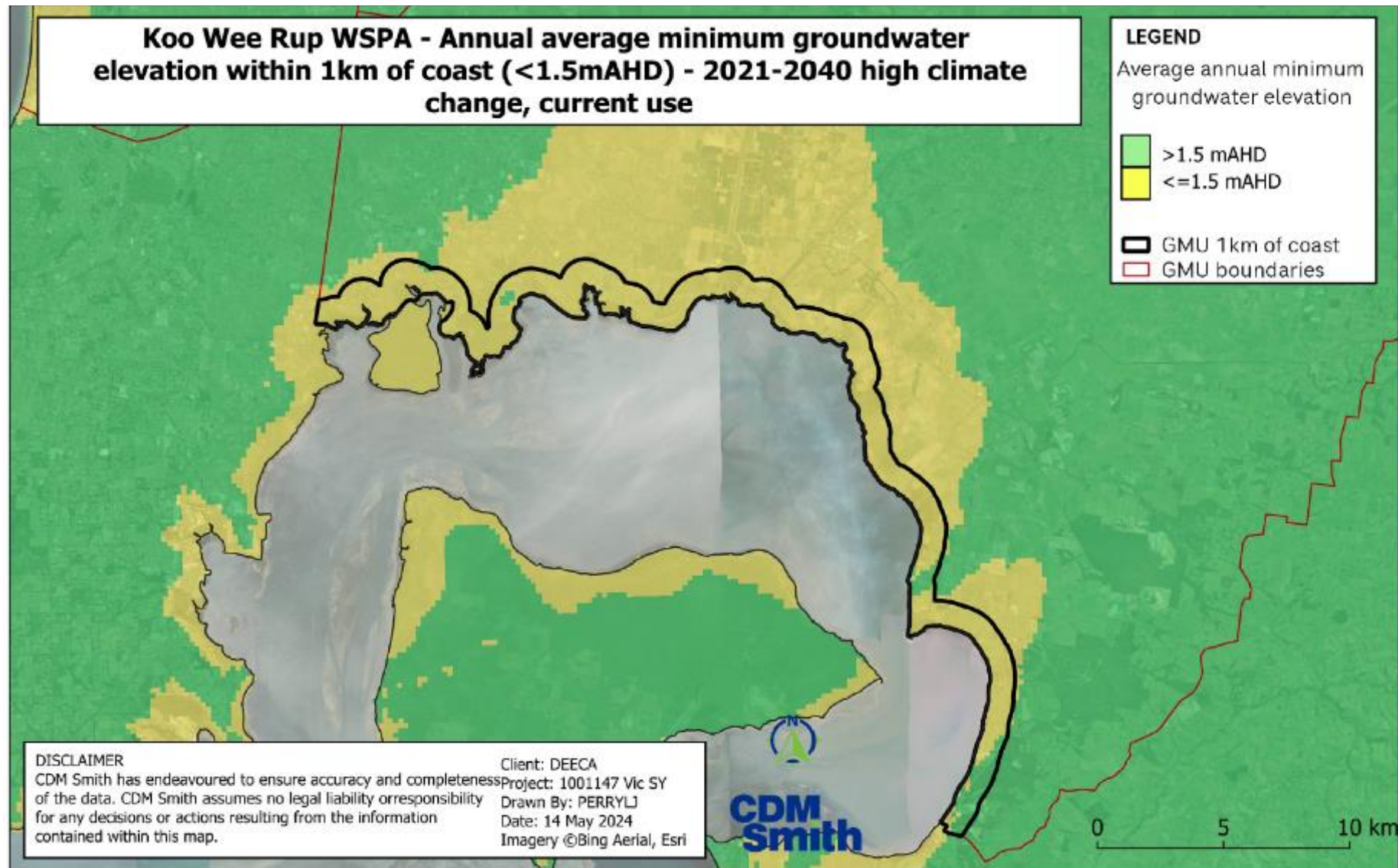


Figure PP-73 Seawater intrusion analysis area for the Koo Wee Rup GMA – 2021-2040 high climate change and current groundwater use.

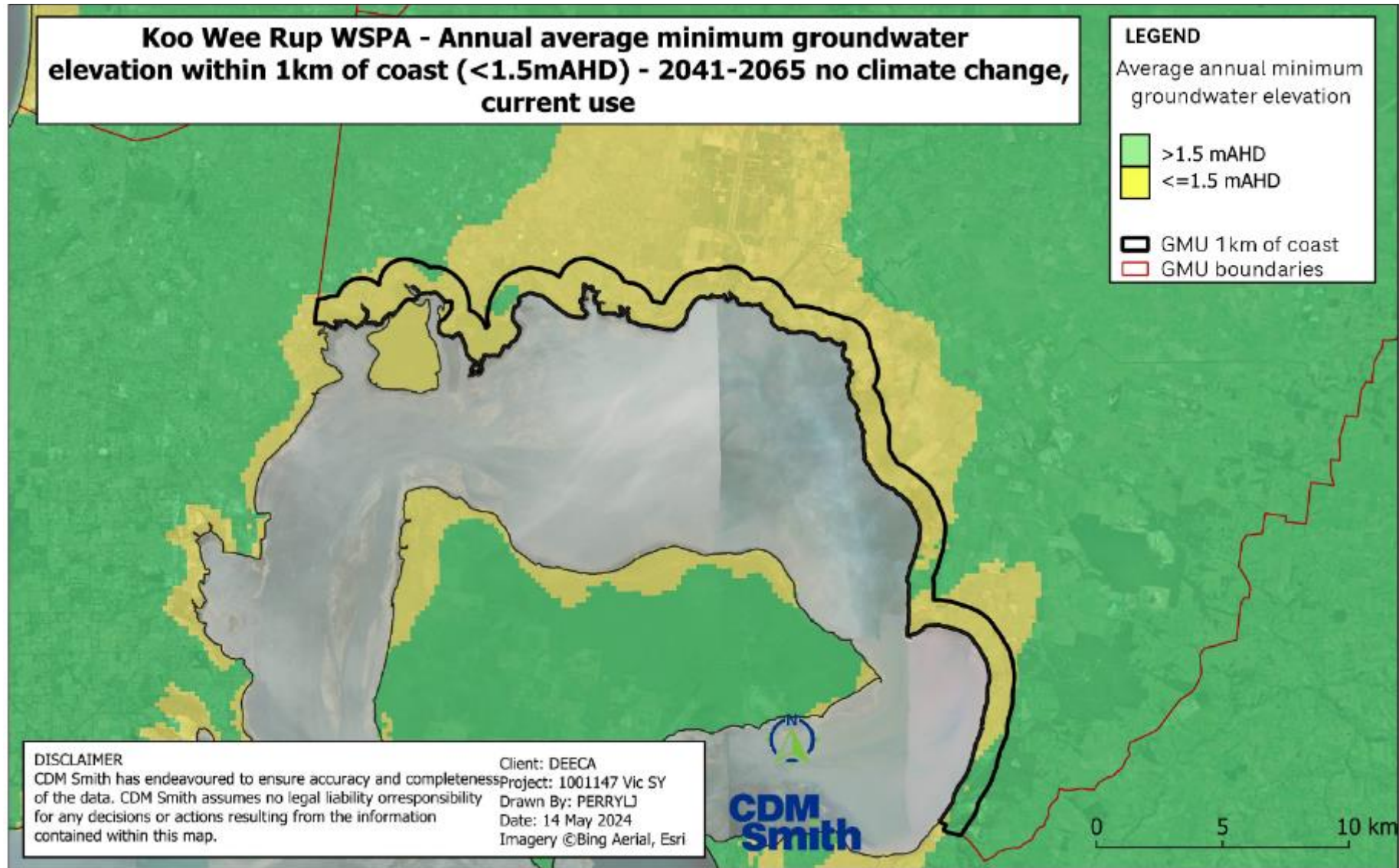


Figure PP-74 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2041-2065 no climate change and current groundwater use.

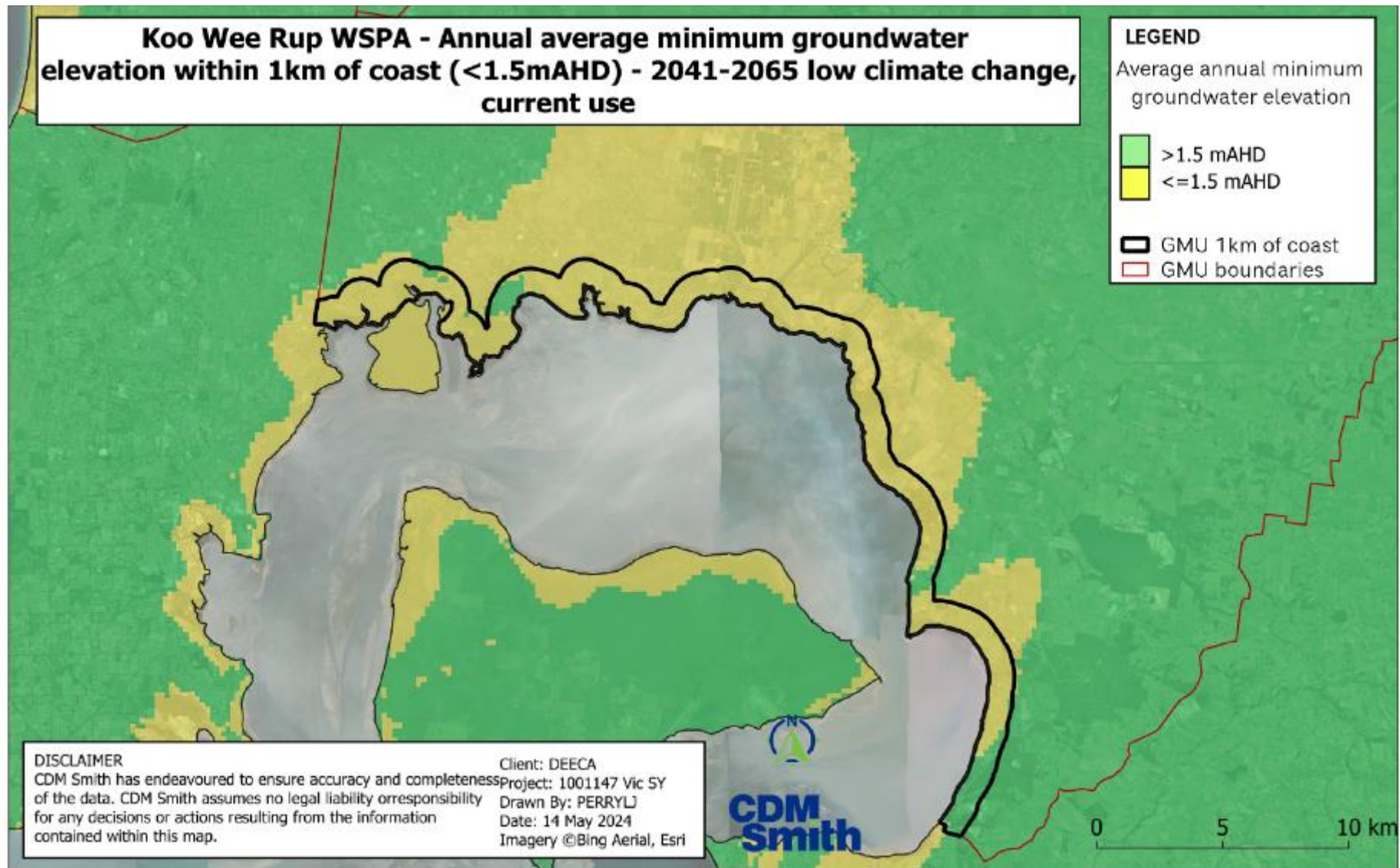


Figure PP-75 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2041-2065 low climate change and current groundwater use.

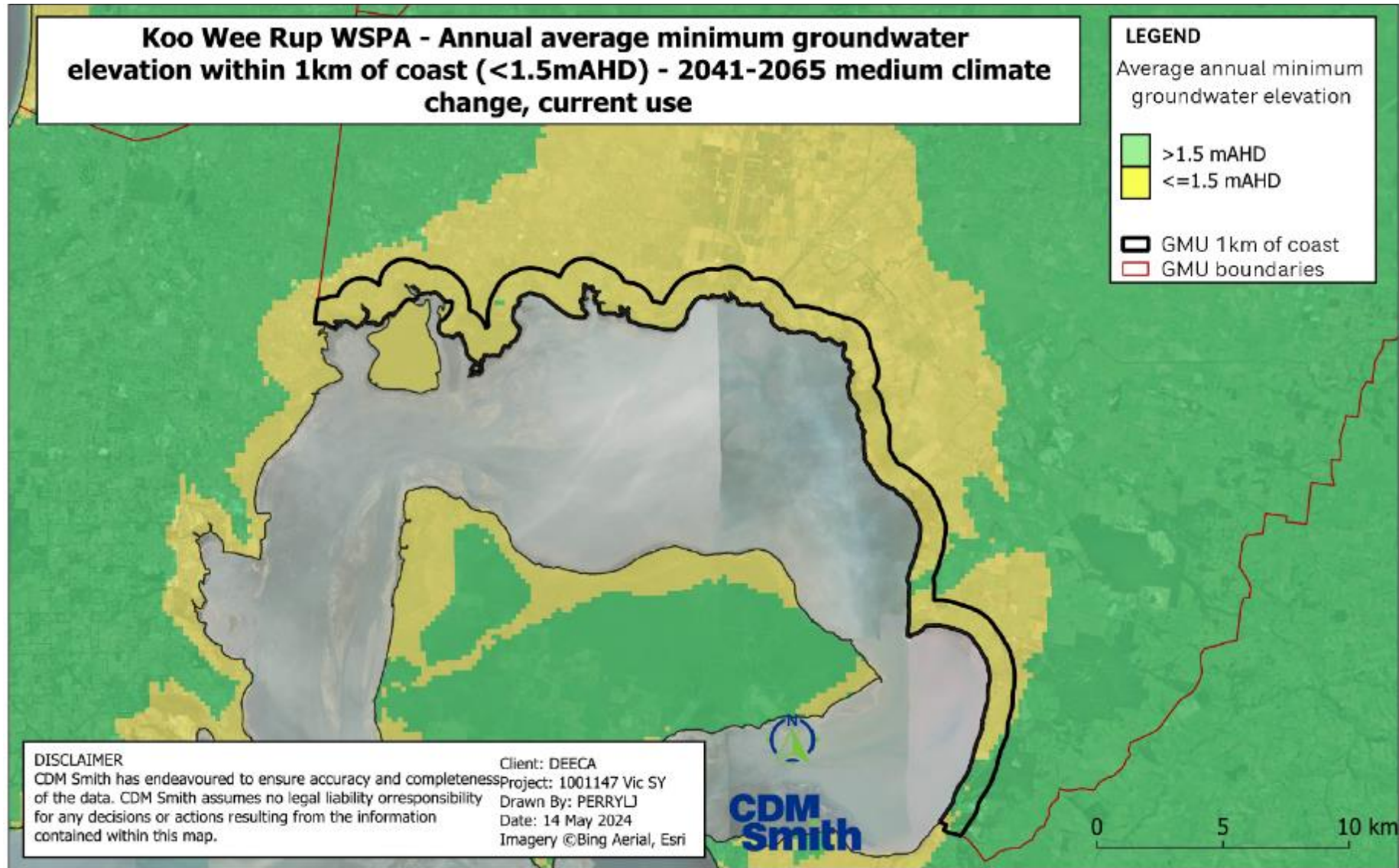


Figure PP-76 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2041-2065 medium climate change and current groundwater use.

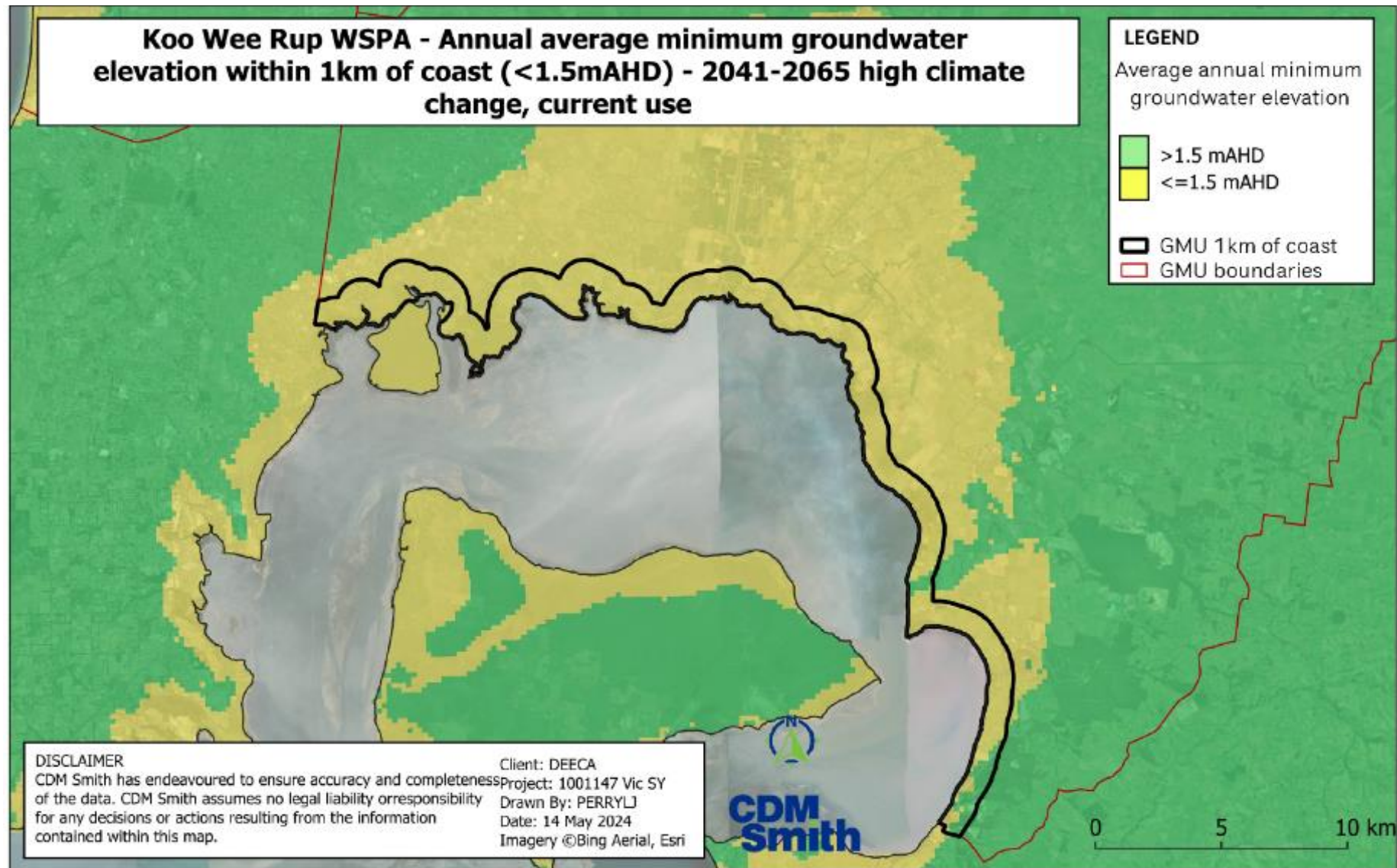


Figure PP-77 Seawater intrusion analysis area for the Koo Wee Rup GMA - 2041-2065 high climate change and current groundwater use.

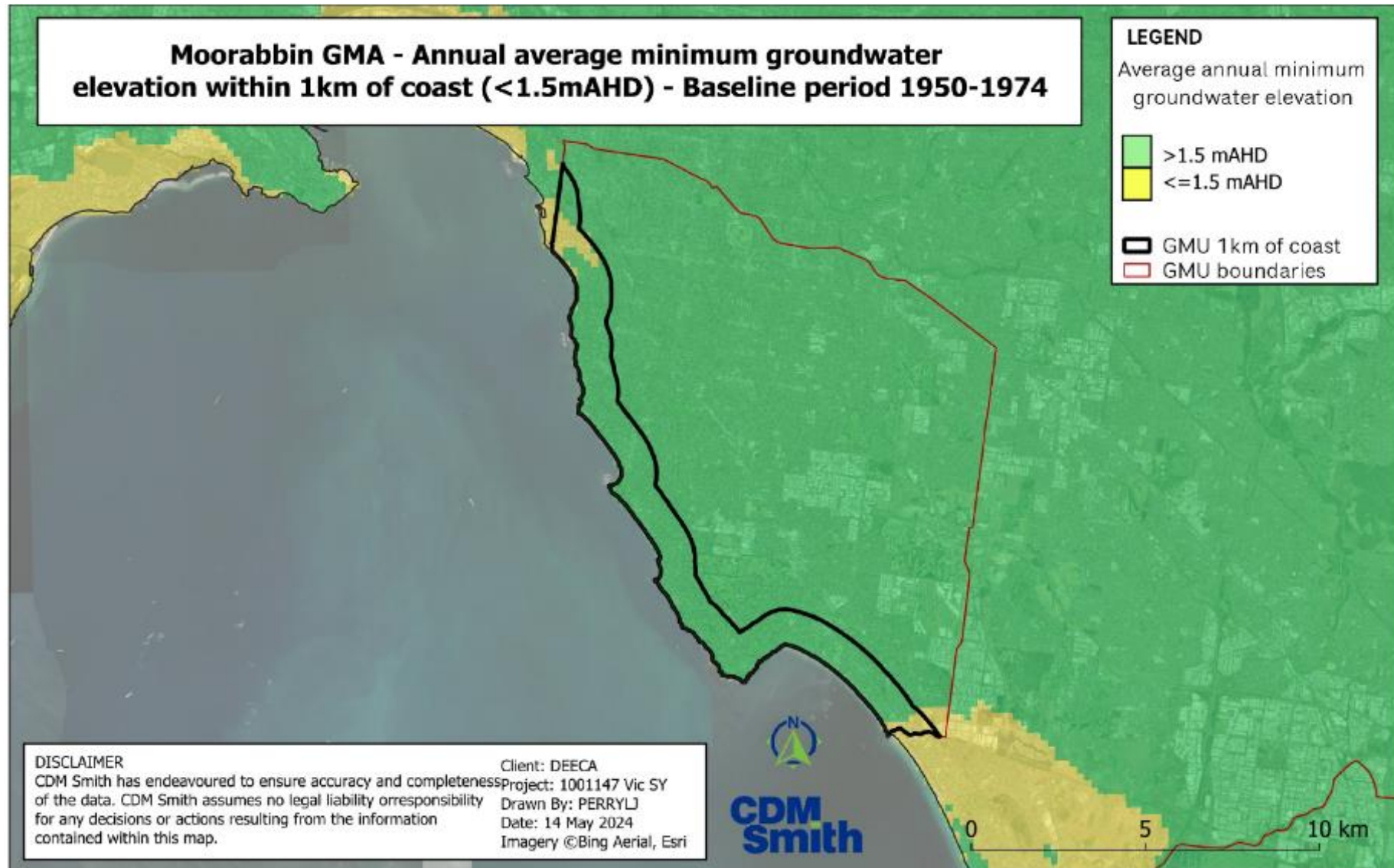


Figure PP-78 Seawater intrusion analysis area for the Moorabbin GMA - Baseline 1950-1974.

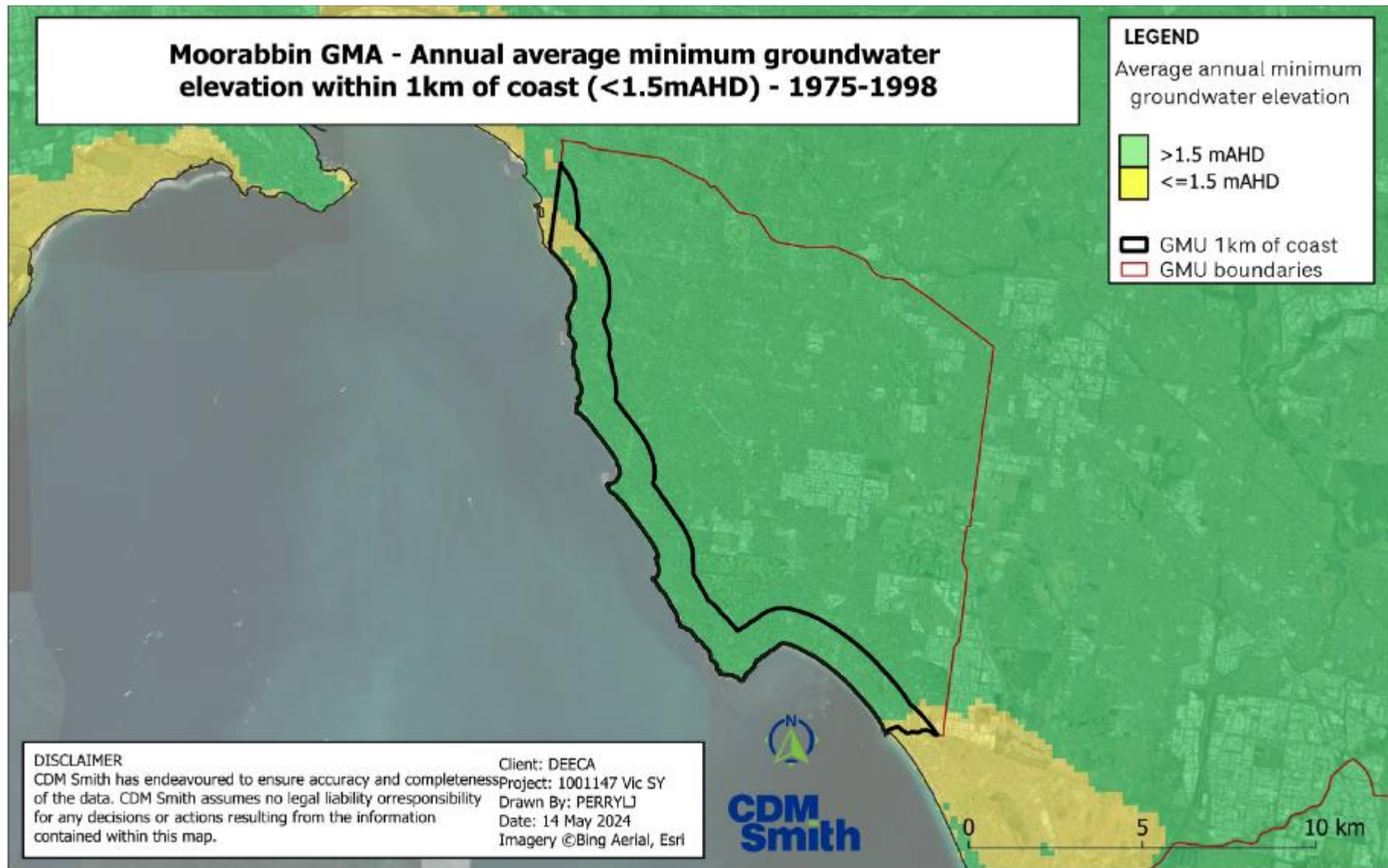


Figure PP-79 Seawater intrusion analysis area for the Moorabbin GMA - 1975-1997.

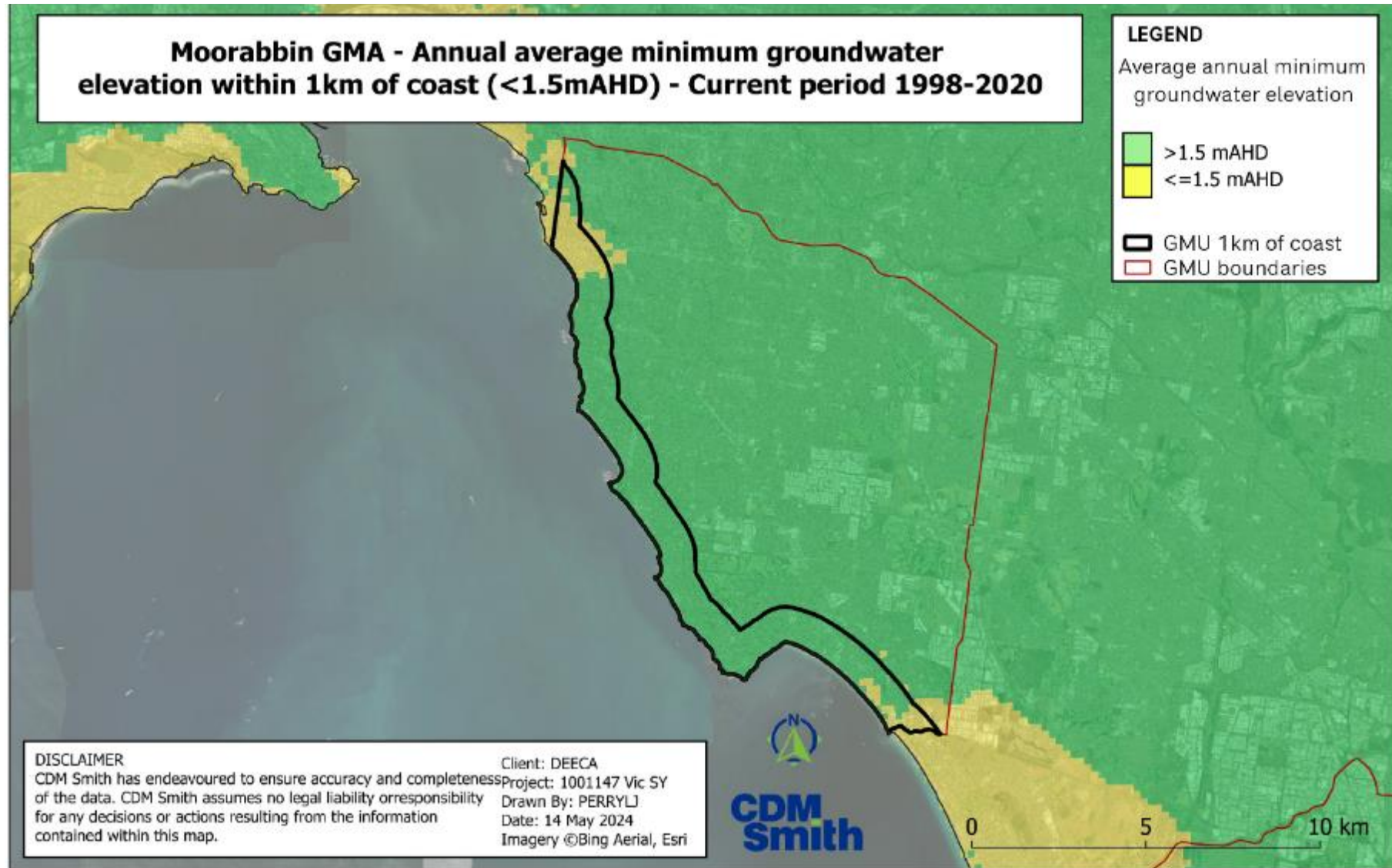


Figure PP-80 Seawater intrusion analysis area for the Moorabbin GMA - 1998-2020.

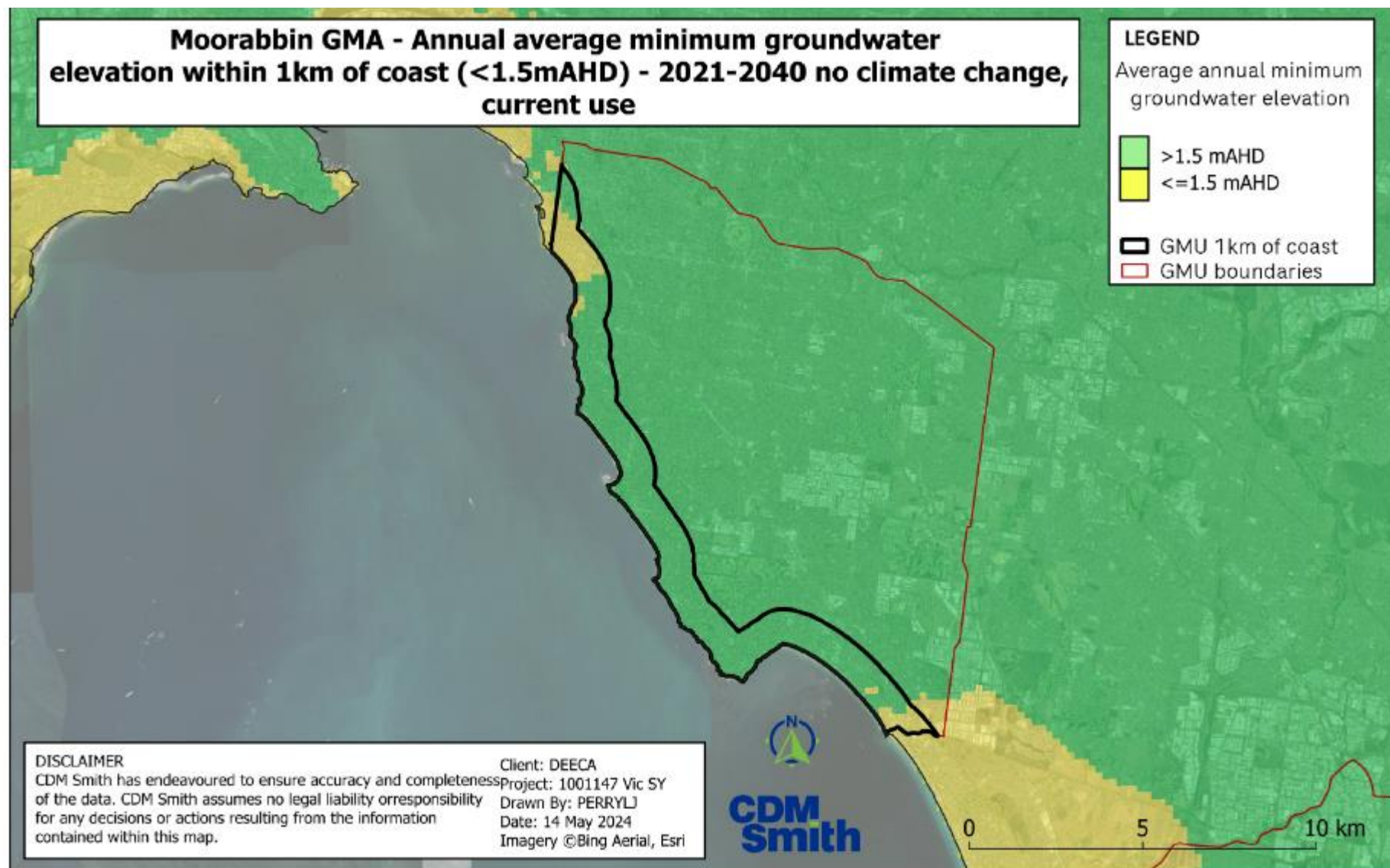


Figure PP-81 Seawater intrusion analysis area for the Moorabbin GMA - 2021-2040 no climate change and current groundwater use.

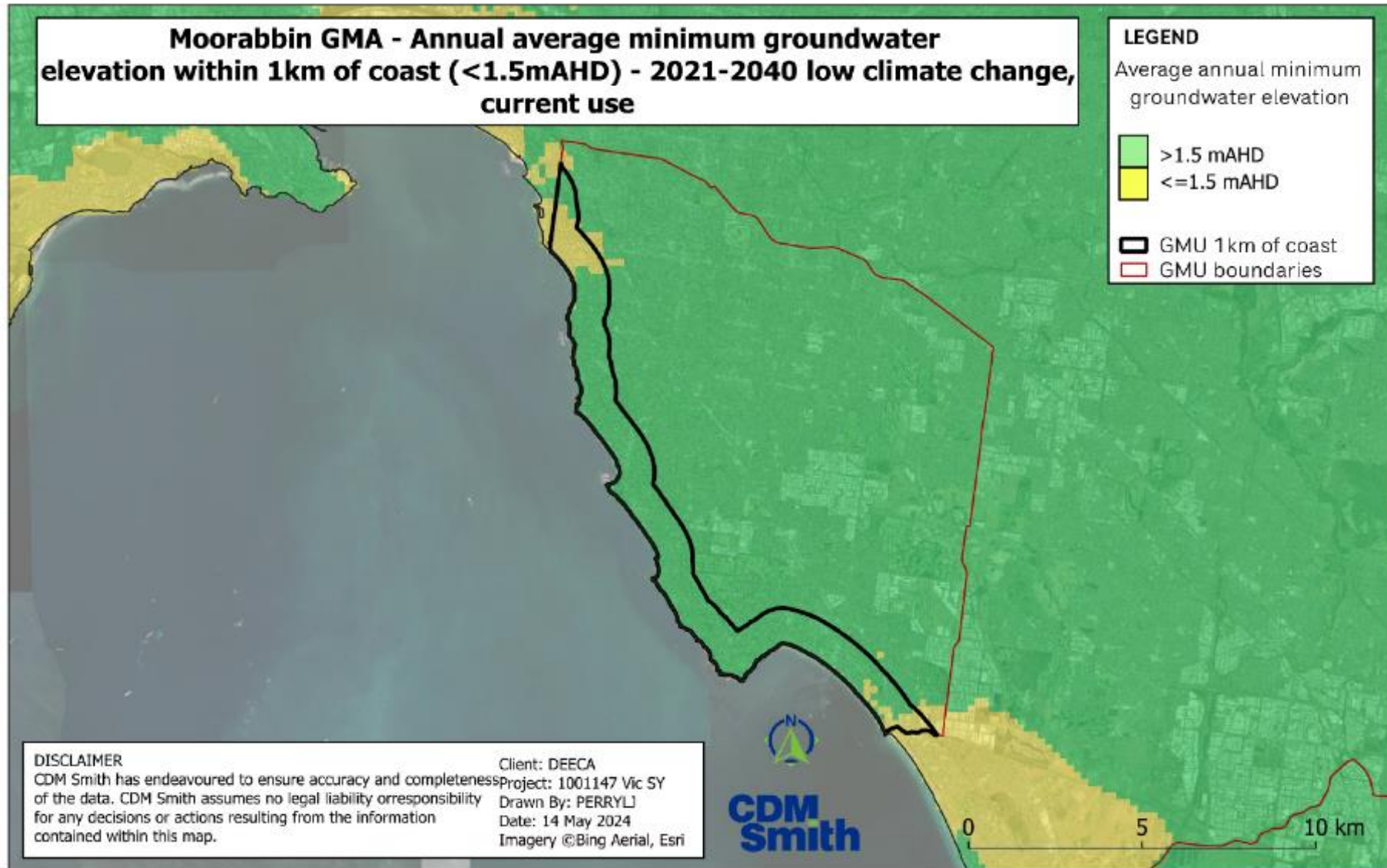


Figure PP-82 Seawater intrusion analysis area for the Moorabbin GMA - 2021-2040 low climate change and current groundwater use.

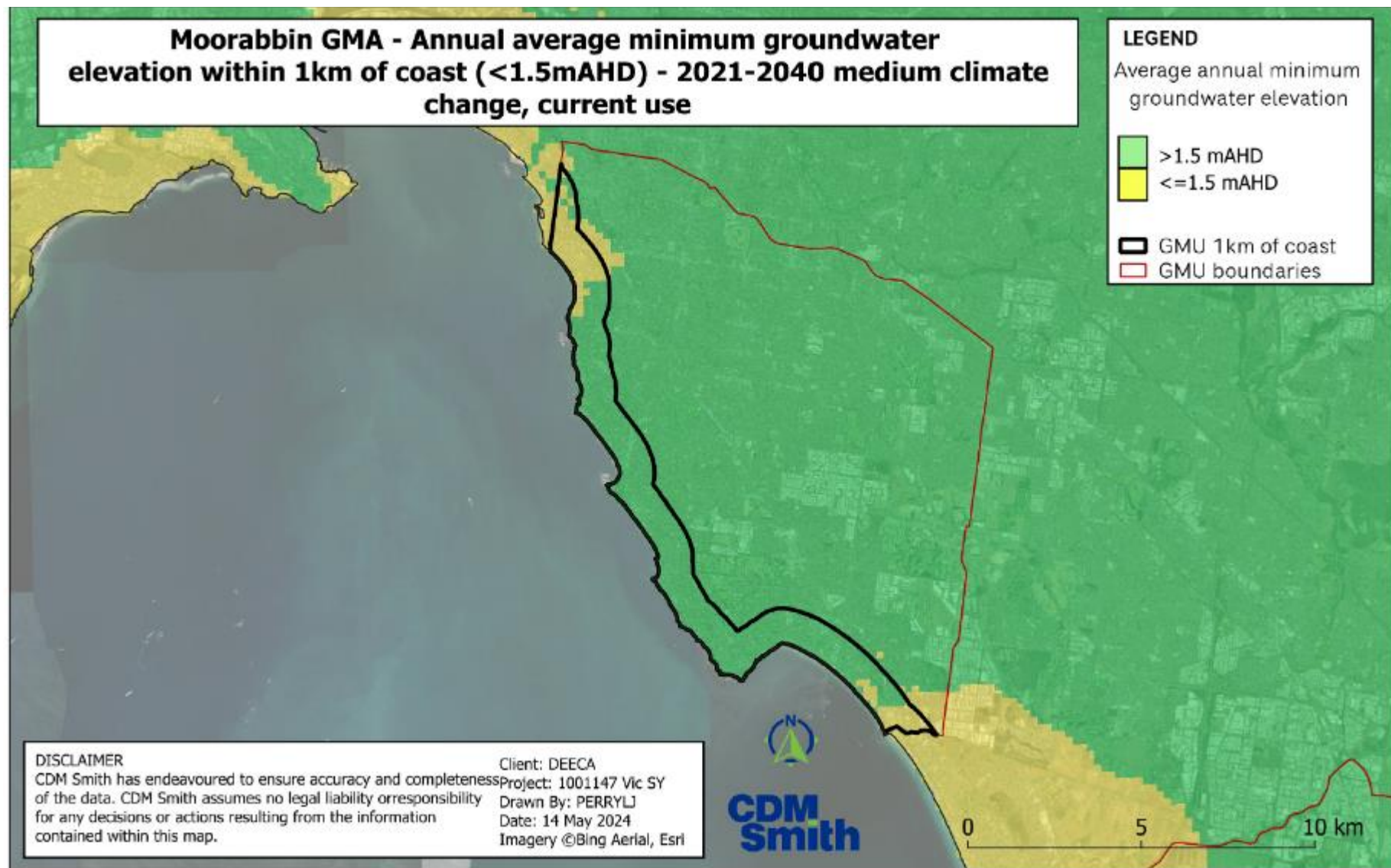


Figure PP-83 Seawater intrusion analysis area for the Moorabbin GMA - 2021-2040 medium climate change and current groundwater use.

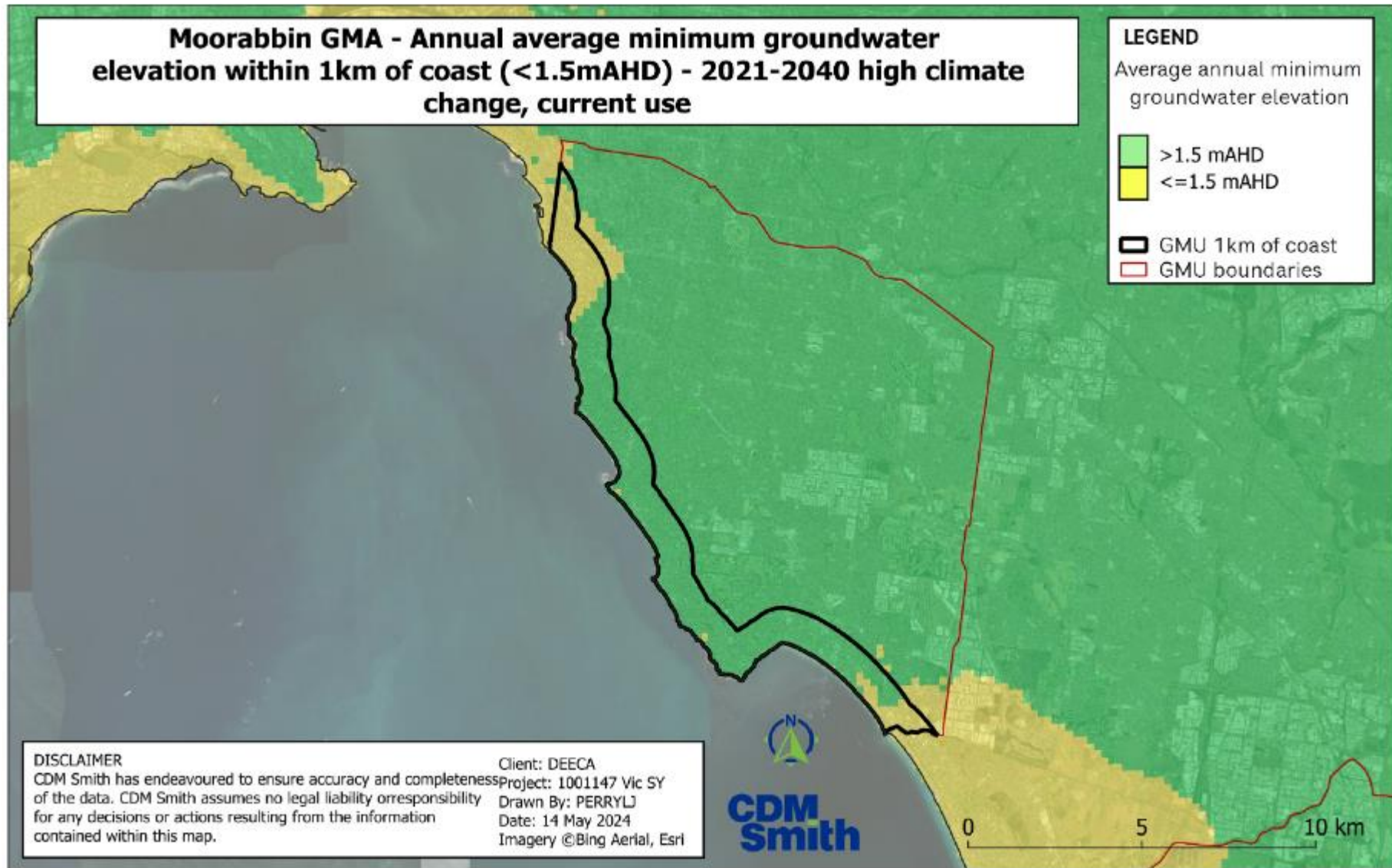


Figure PP-84 Seawater intrusion analysis area for the Moorabbin GMA - 2021-2040 high climate change and current groundwater use.

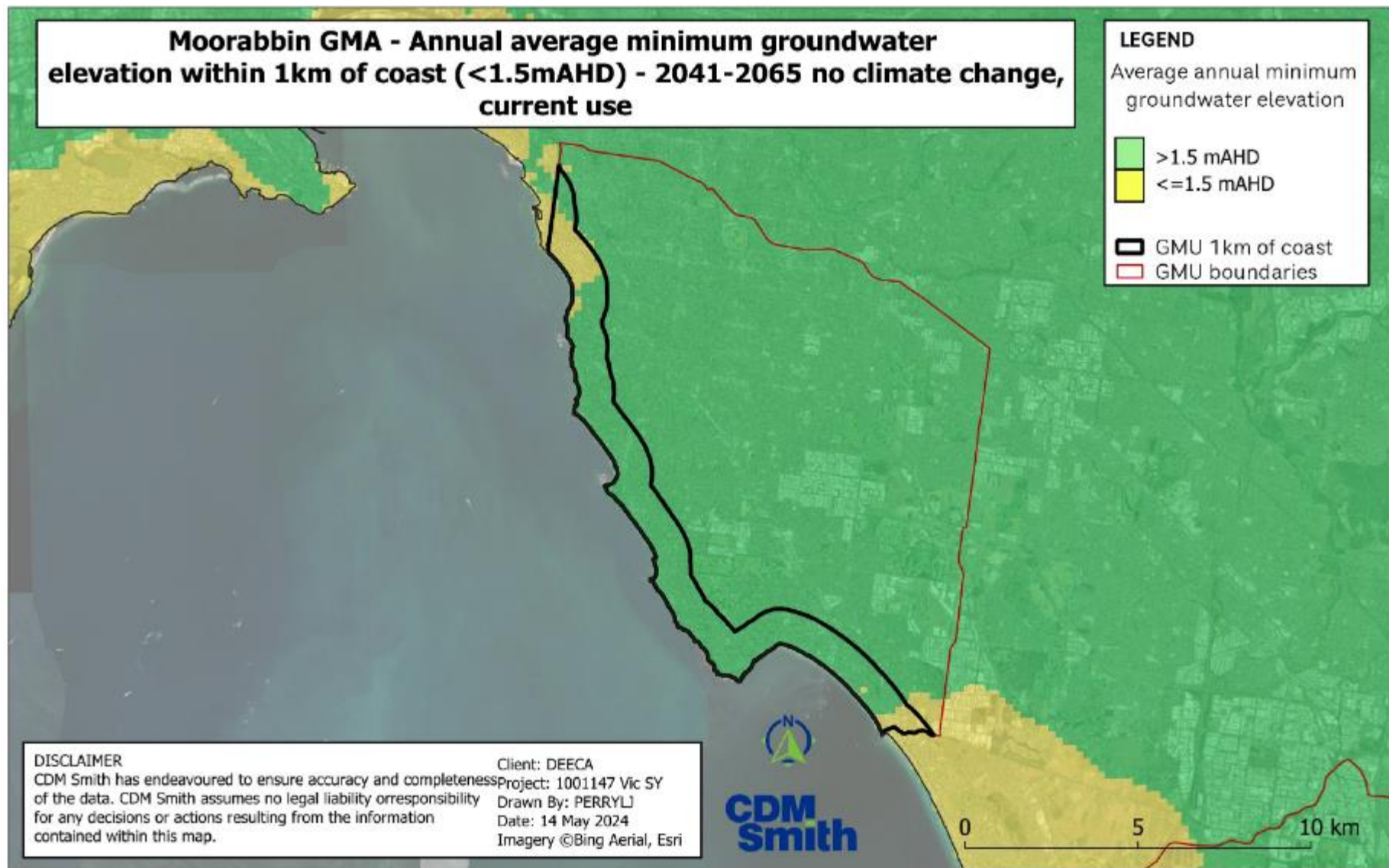


Figure PP-85 Seawater intrusion analysis area for the Moorabbin GMA – 2041-2065 no climate change and current groundwater use.

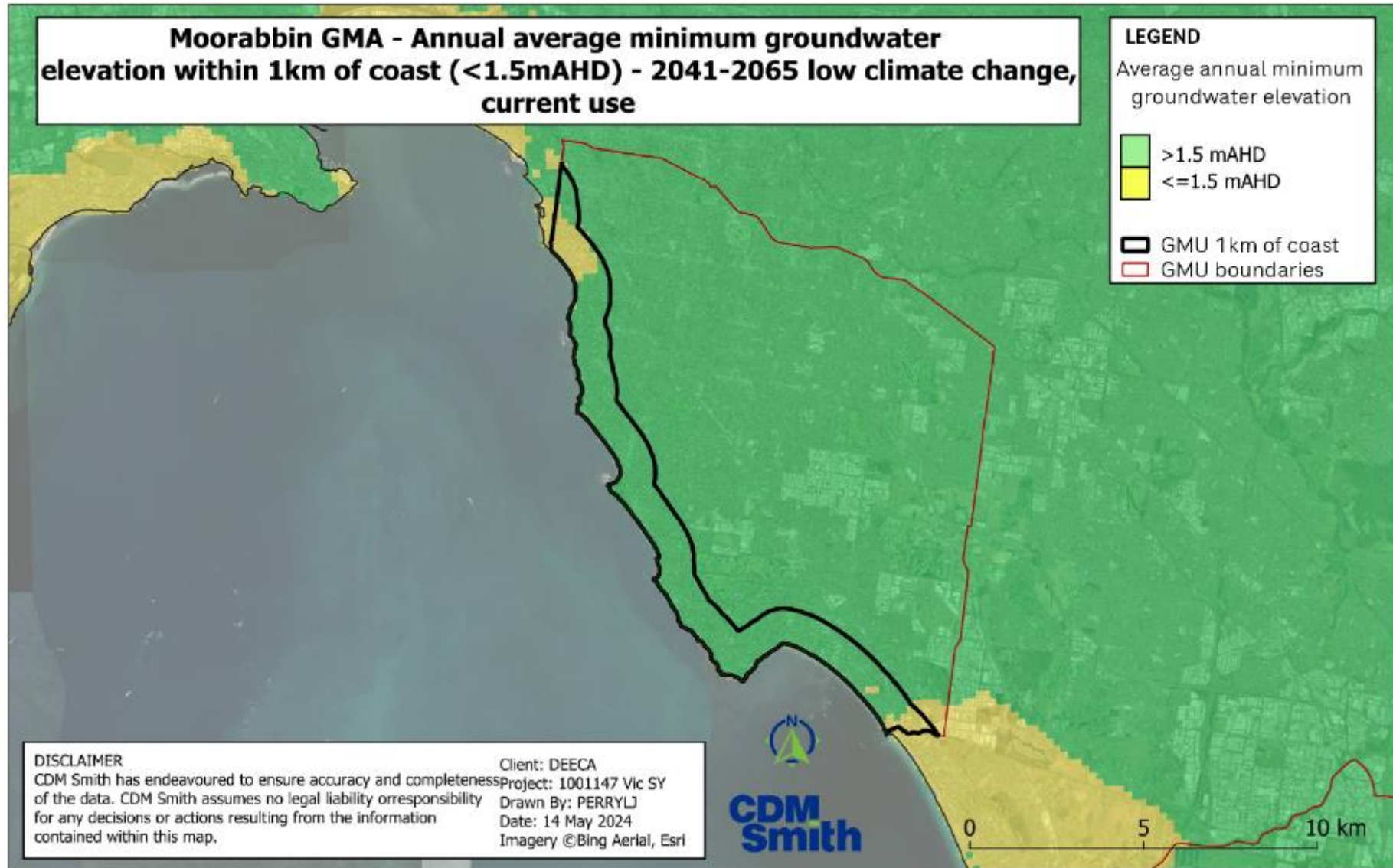


Figure PP-86 Seawater intrusion analysis area for the Moorabbin GMA - 2041-2065 low climate change and current groundwater use.

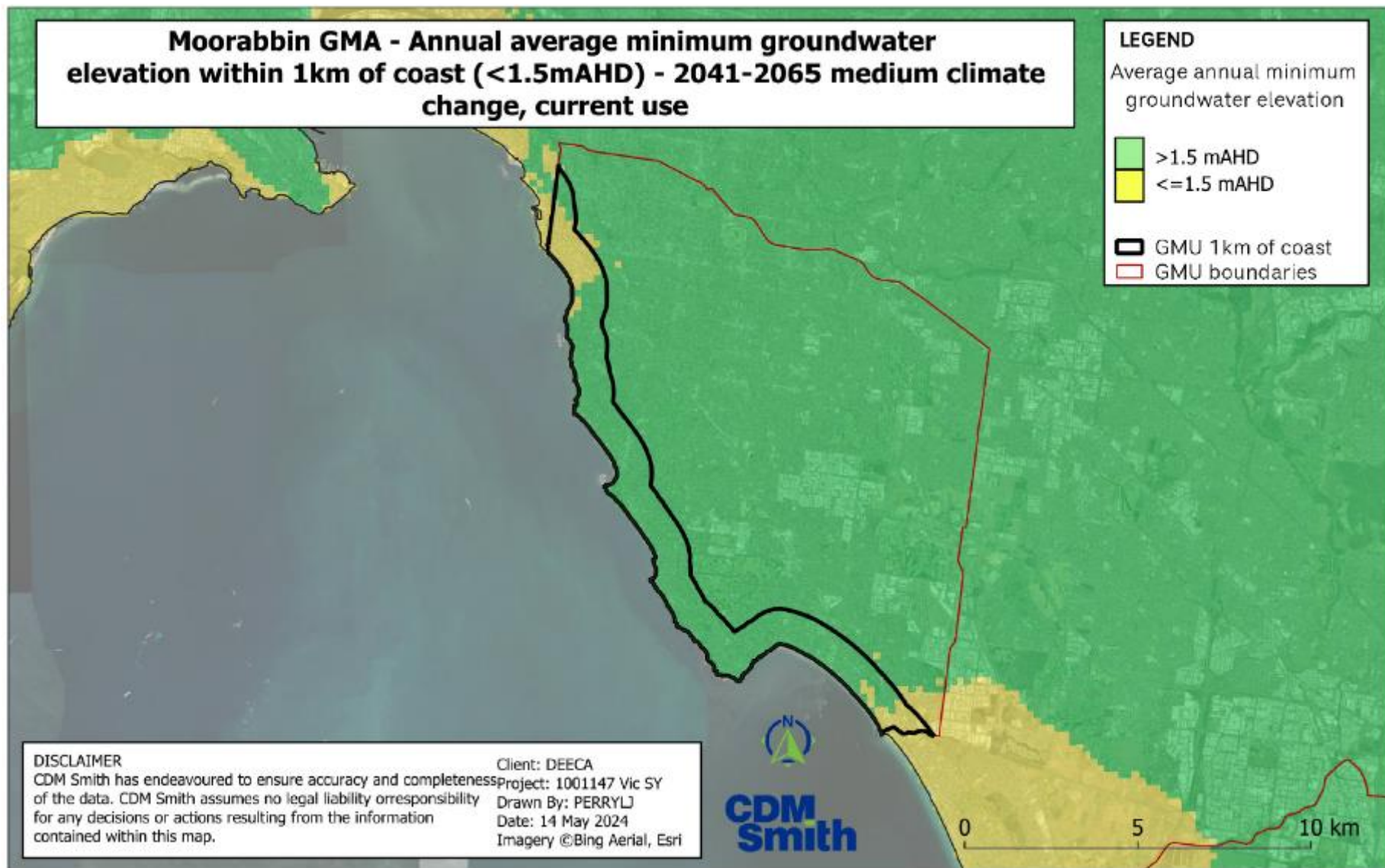


Figure PP-87 Seawater intrusion analysis area for the Moorabbin GMA - 2041-2065 medium climate change and current groundwater use.

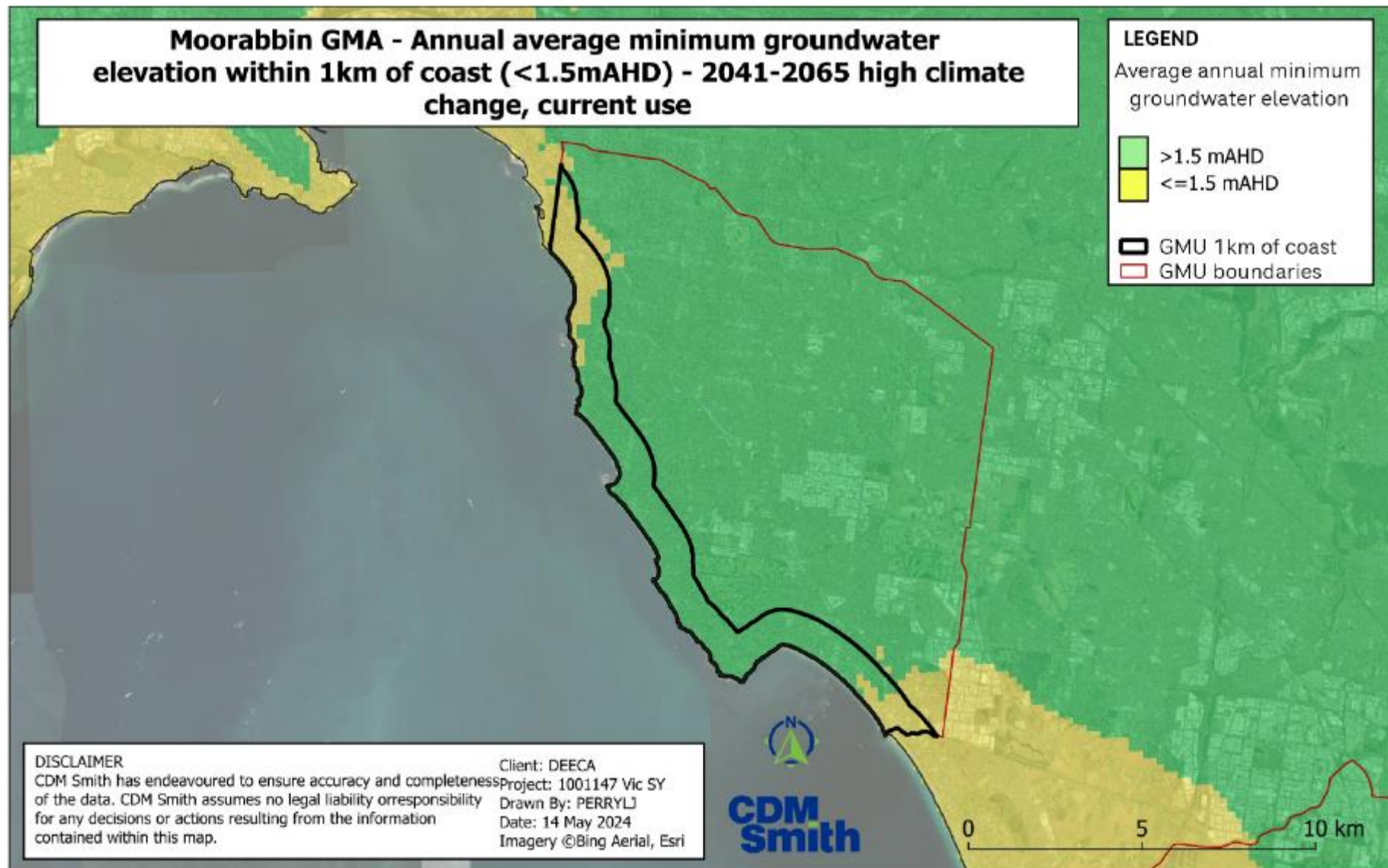


Figure PP-88 Seawater intrusion analysis area for the Moorabbin GMA – 2041-2065 high climate change and current groundwater use.

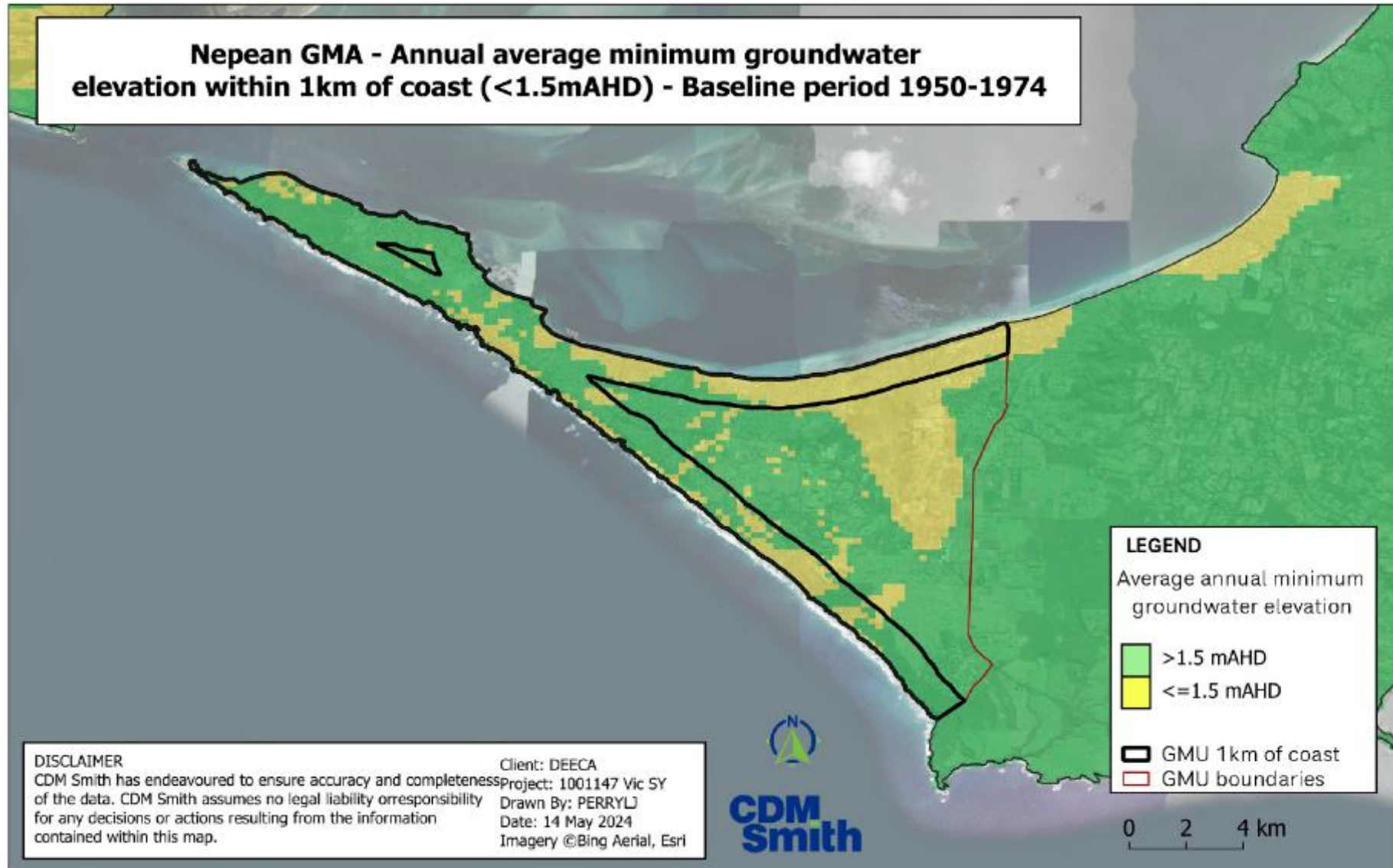


Figure PP-89 Seawater intrusion analysis area for the Nepean GMA - Baseline 1950-1974.

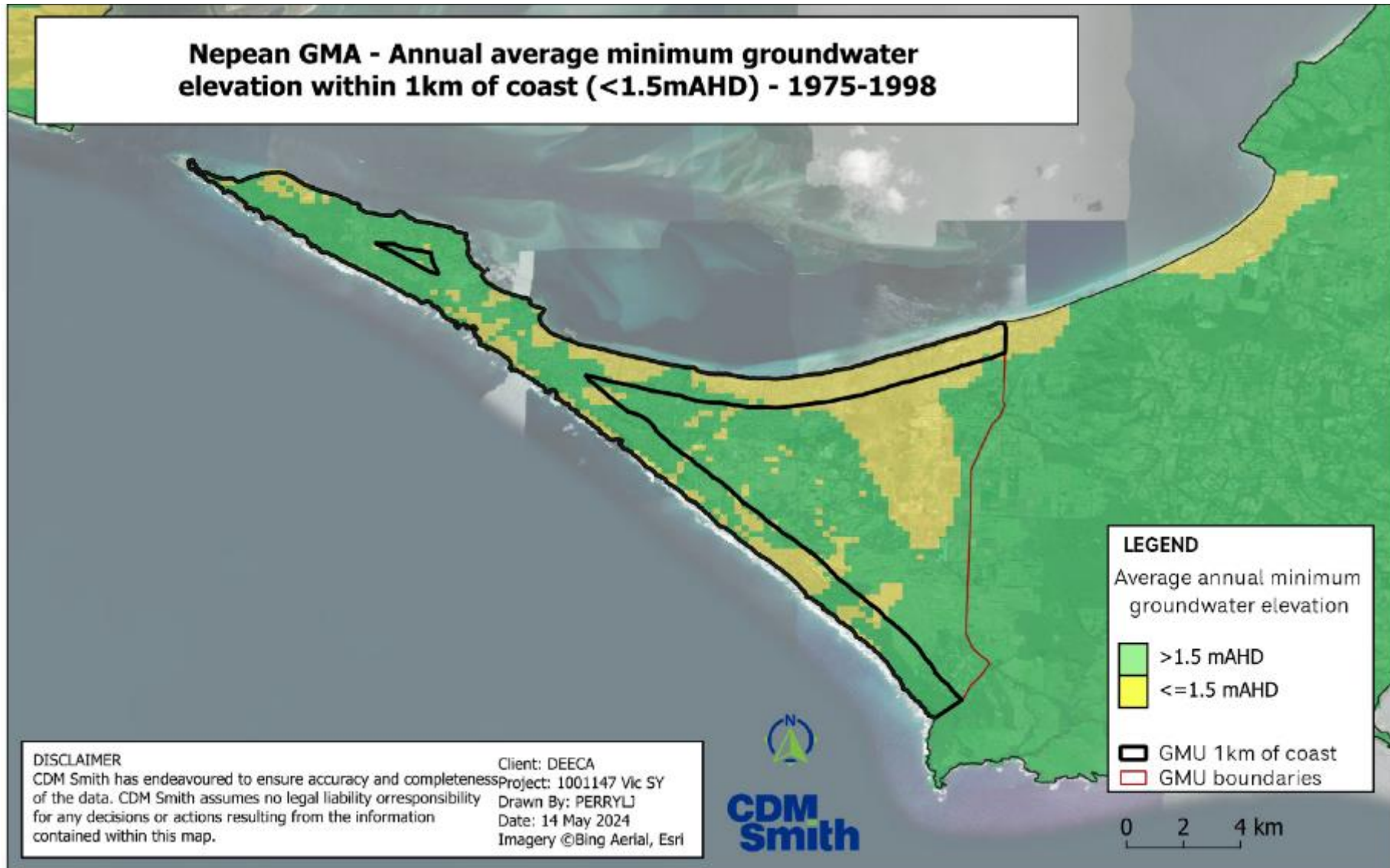


Figure PP-90 Seawater intrusion analysis area for the Nepean GMA - 1975-1997.

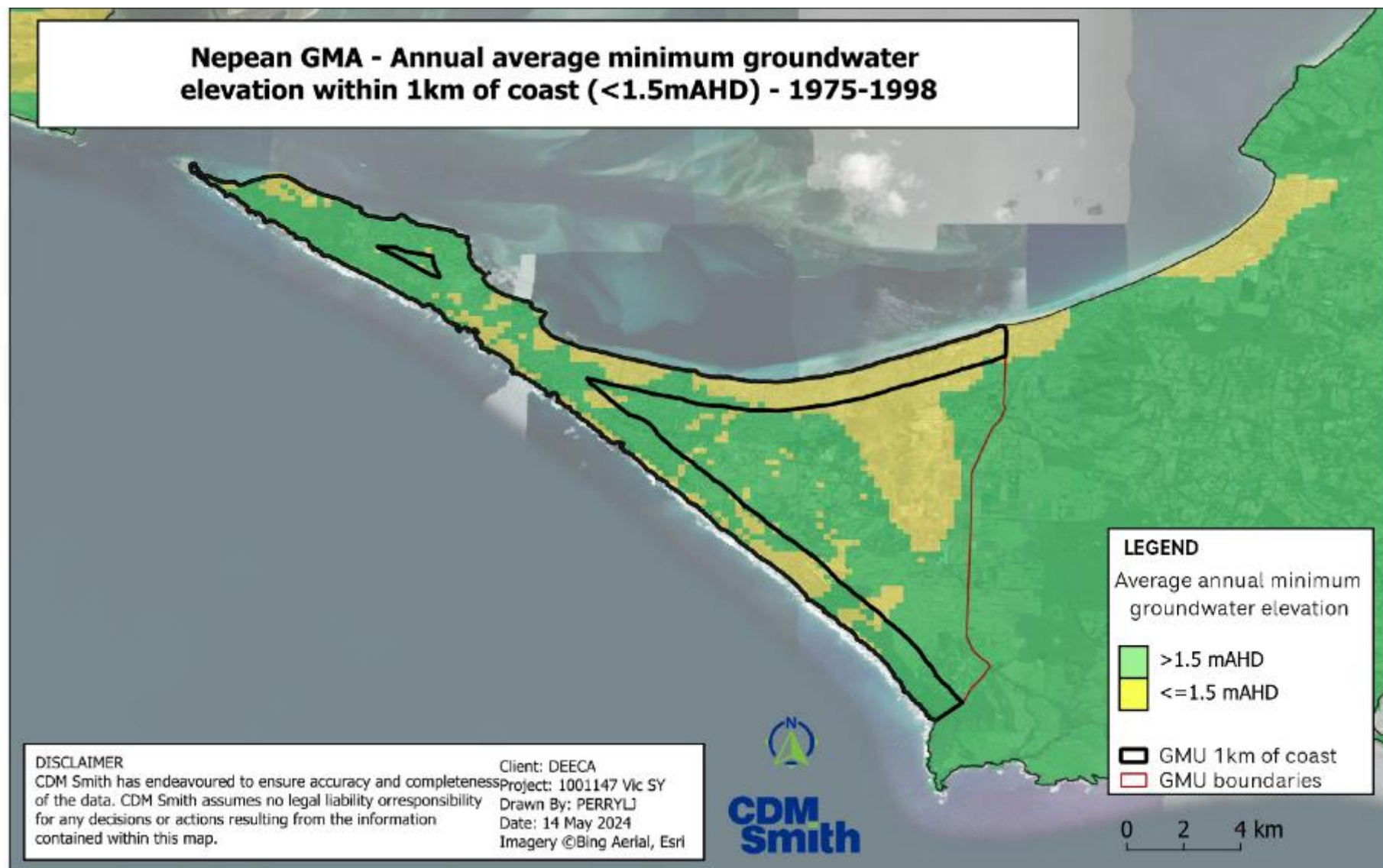


Figure PP-91 Seawater intrusion analysis area for the Nepean GMA - 1998-2020.

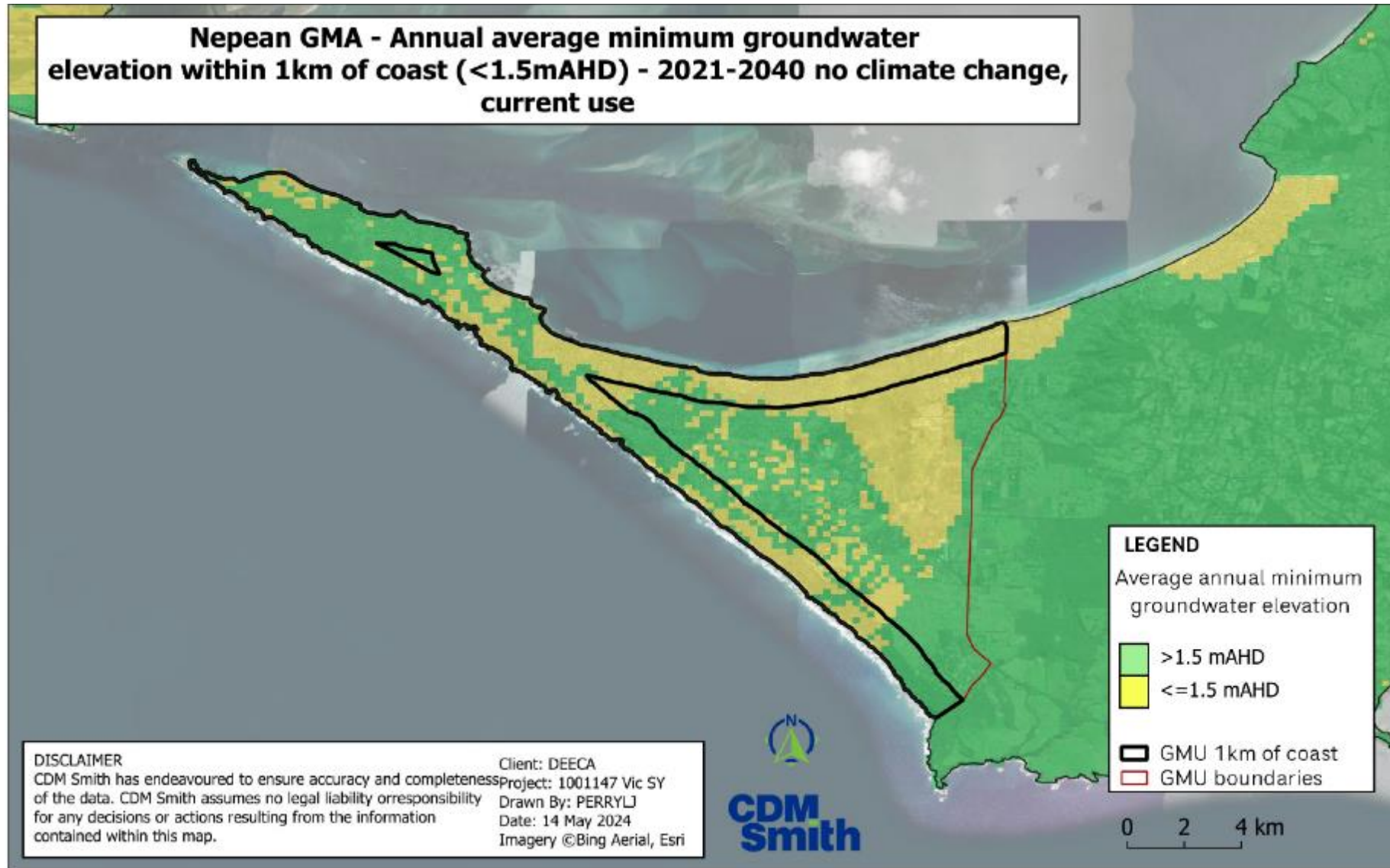


Figure PP-92 Seawater intrusion analysis area for the Nepean GMA - 2021-2040 no climate change and current groundwater use.

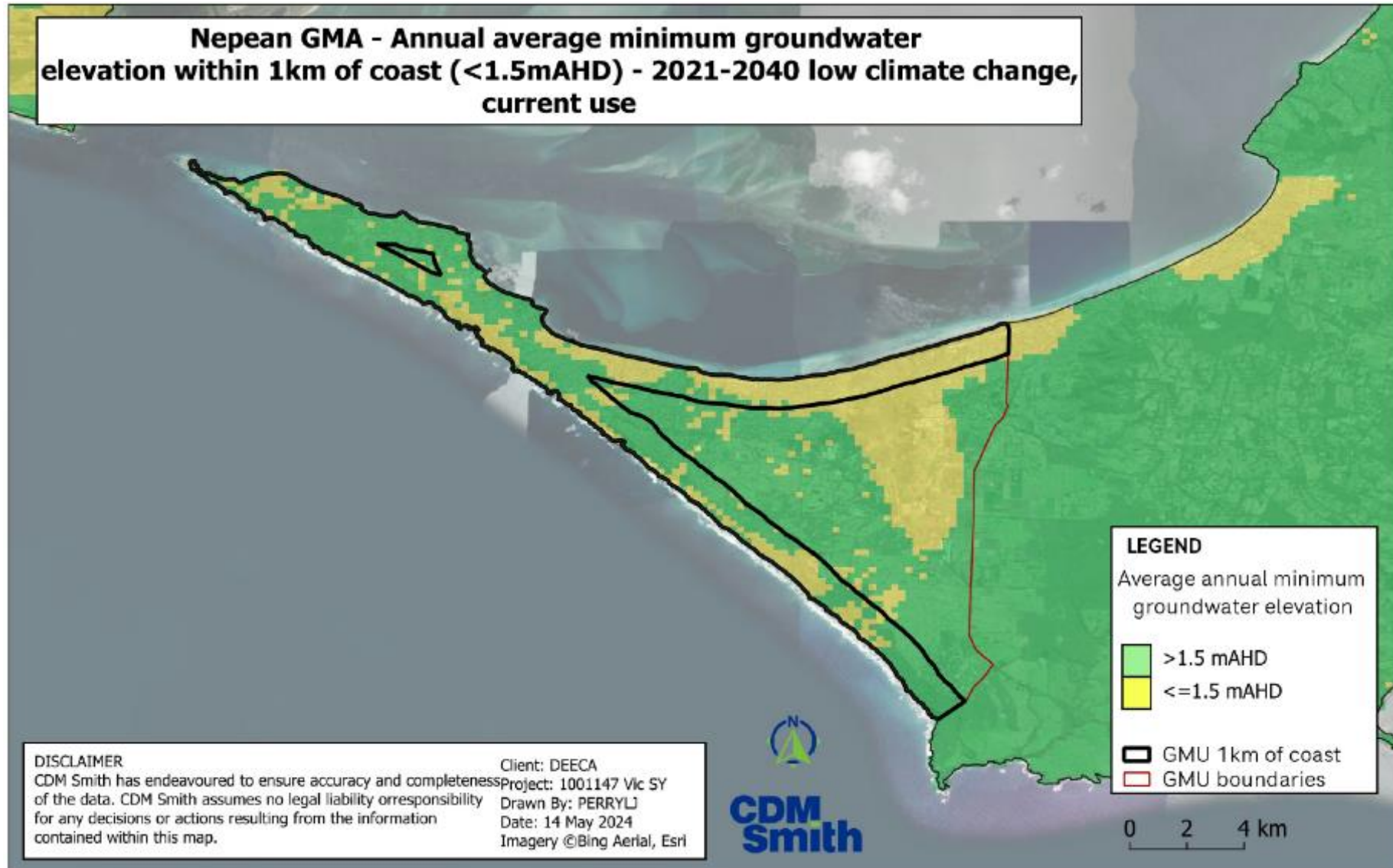


Figure PP-93 Seawater intrusion analysis area for the Nepean GMA – 2021-2040 low climate change and current groundwater use.

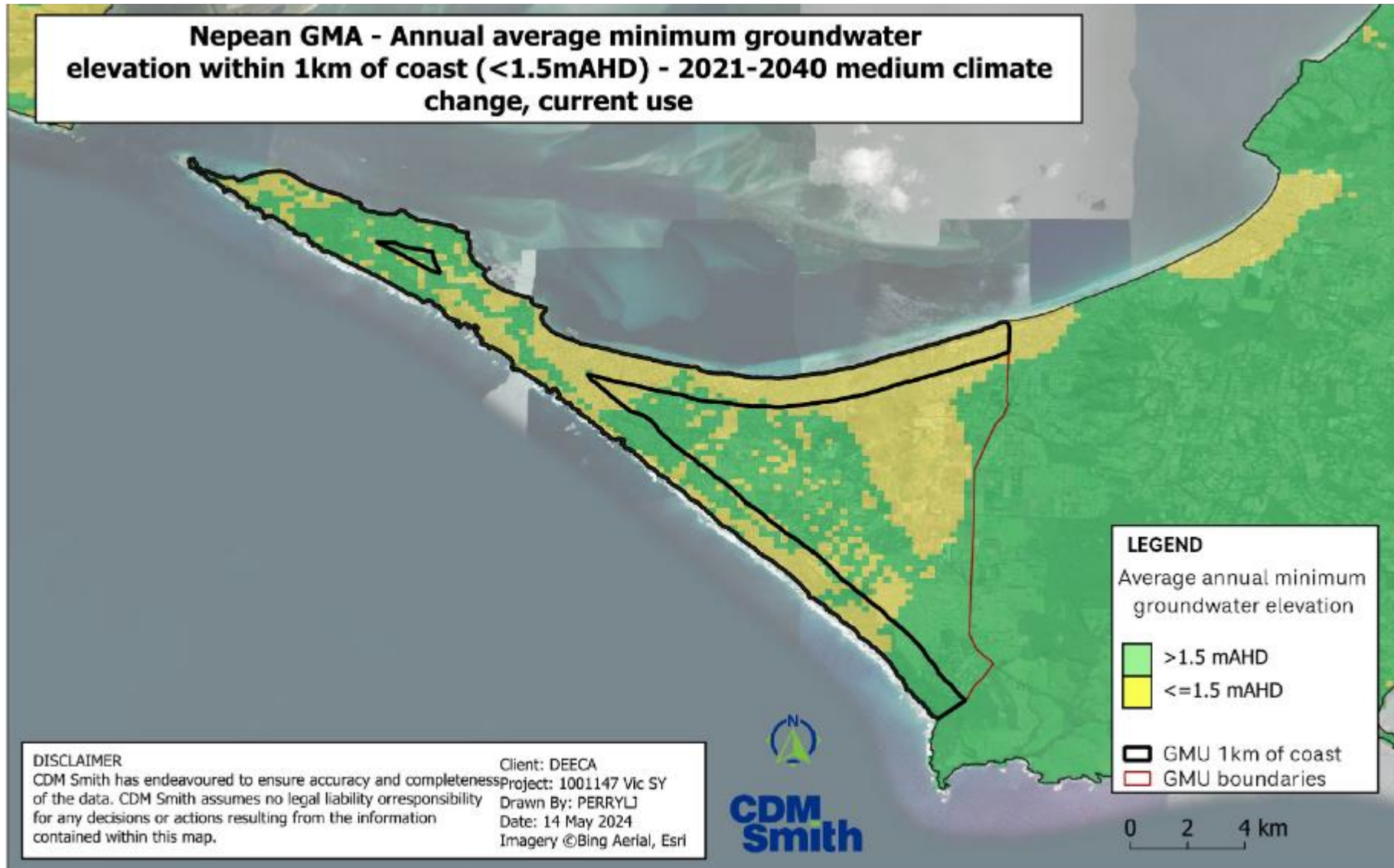


Figure PP-94 Seawater intrusion analysis area for the Nepean GMA - 2021-2040 medium climate change and current groundwater use.

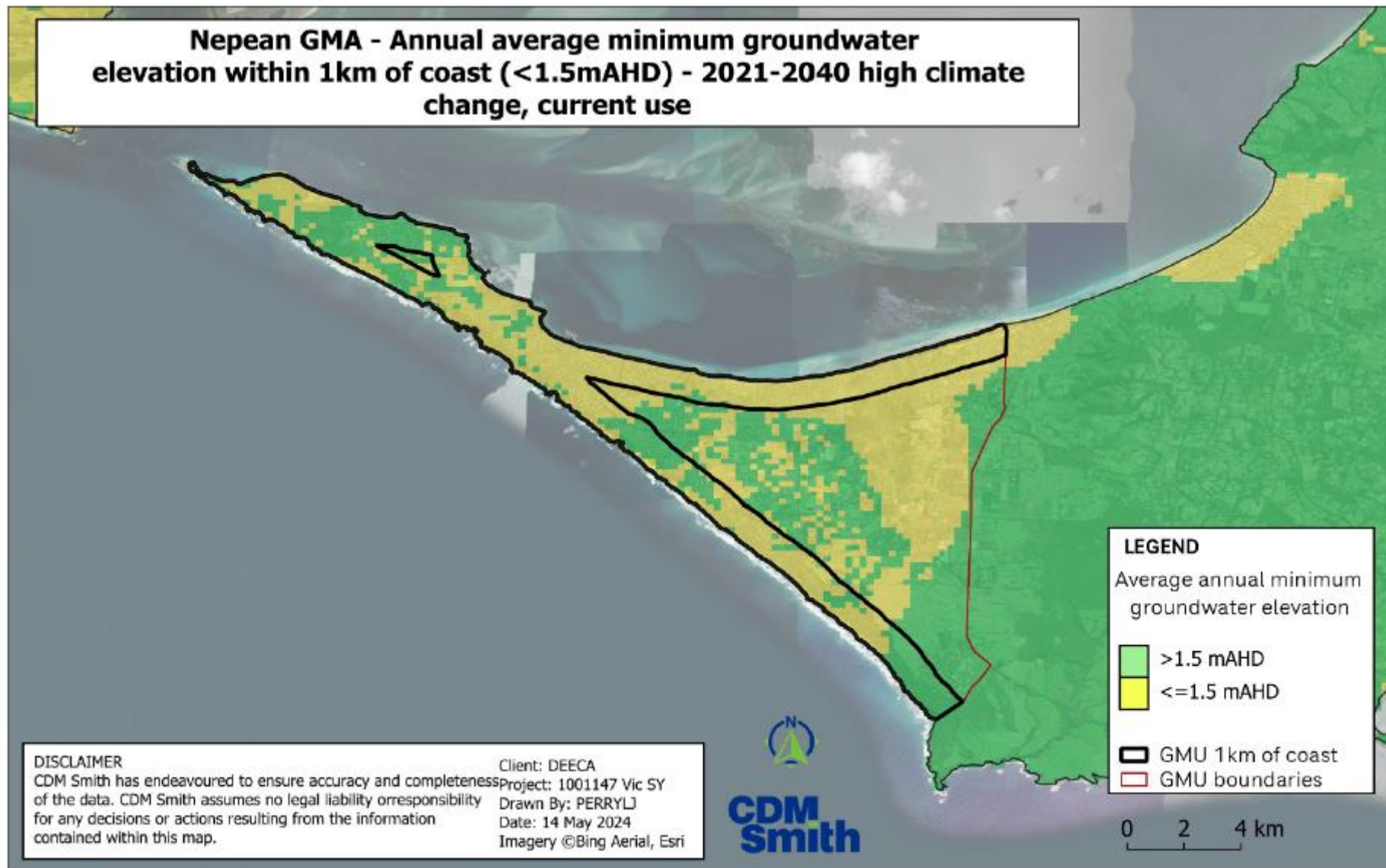


Figure PP-95 Seawater intrusion analysis area for the Nepean GMA – 2021-2040 high climate change and current groundwater use.

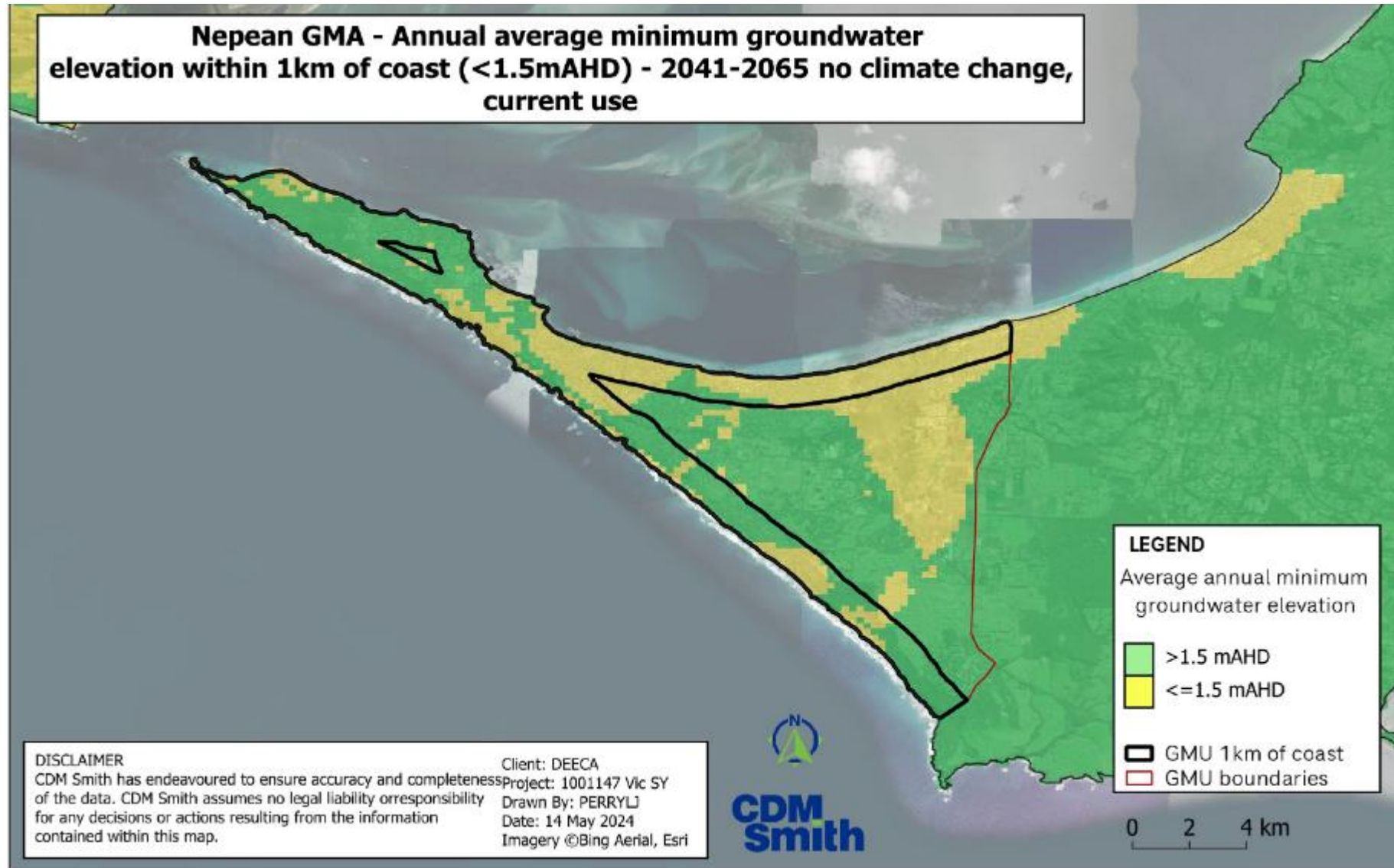


Figure PP-96 Seawater intrusion analysis area for the Nepean GMA - 2041-2065 no climate change and current groundwater use.

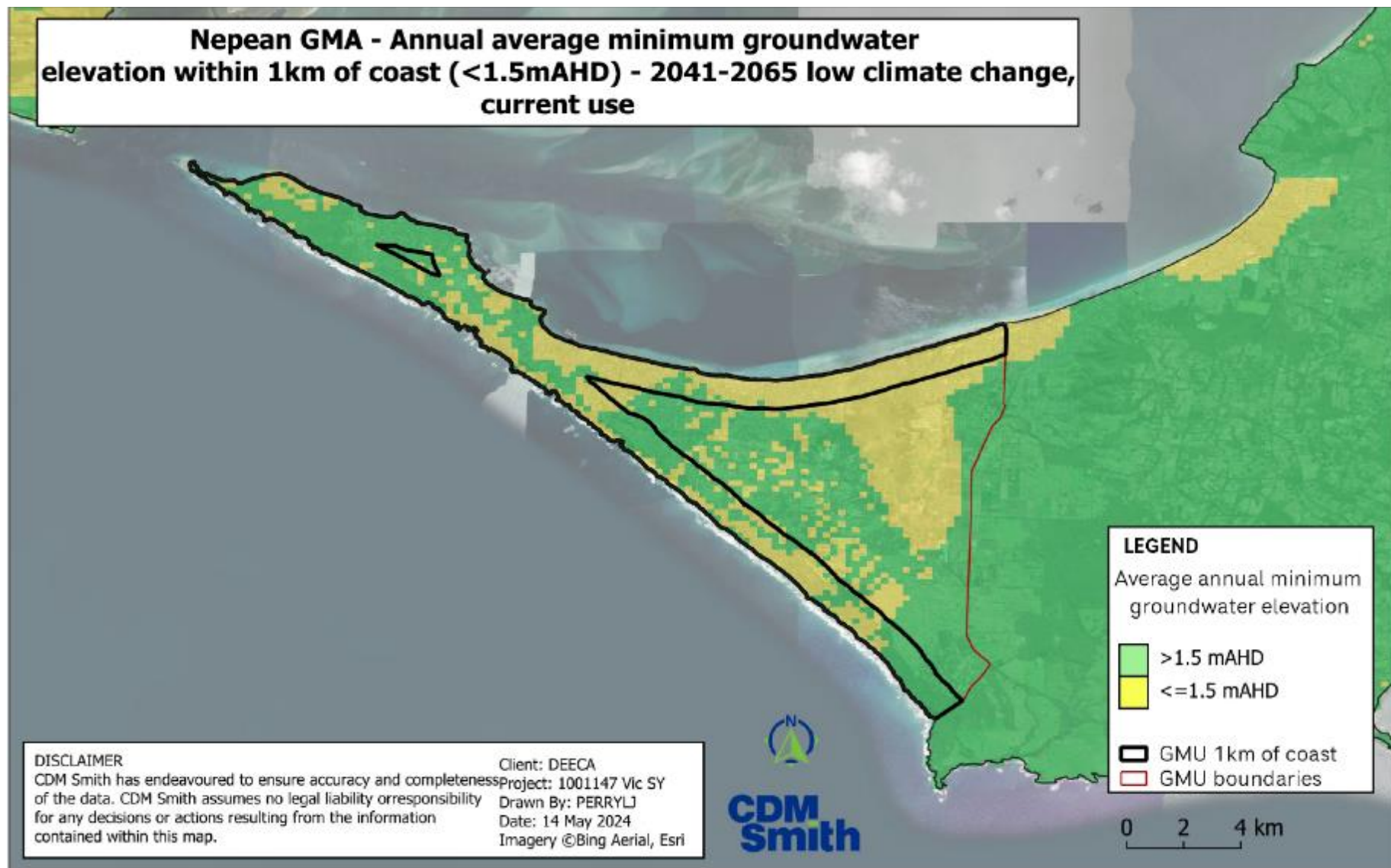


Figure PP-97 Seawater intrusion analysis area for the Nepean GMA - 2041-2065 low climate change and current groundwater use.

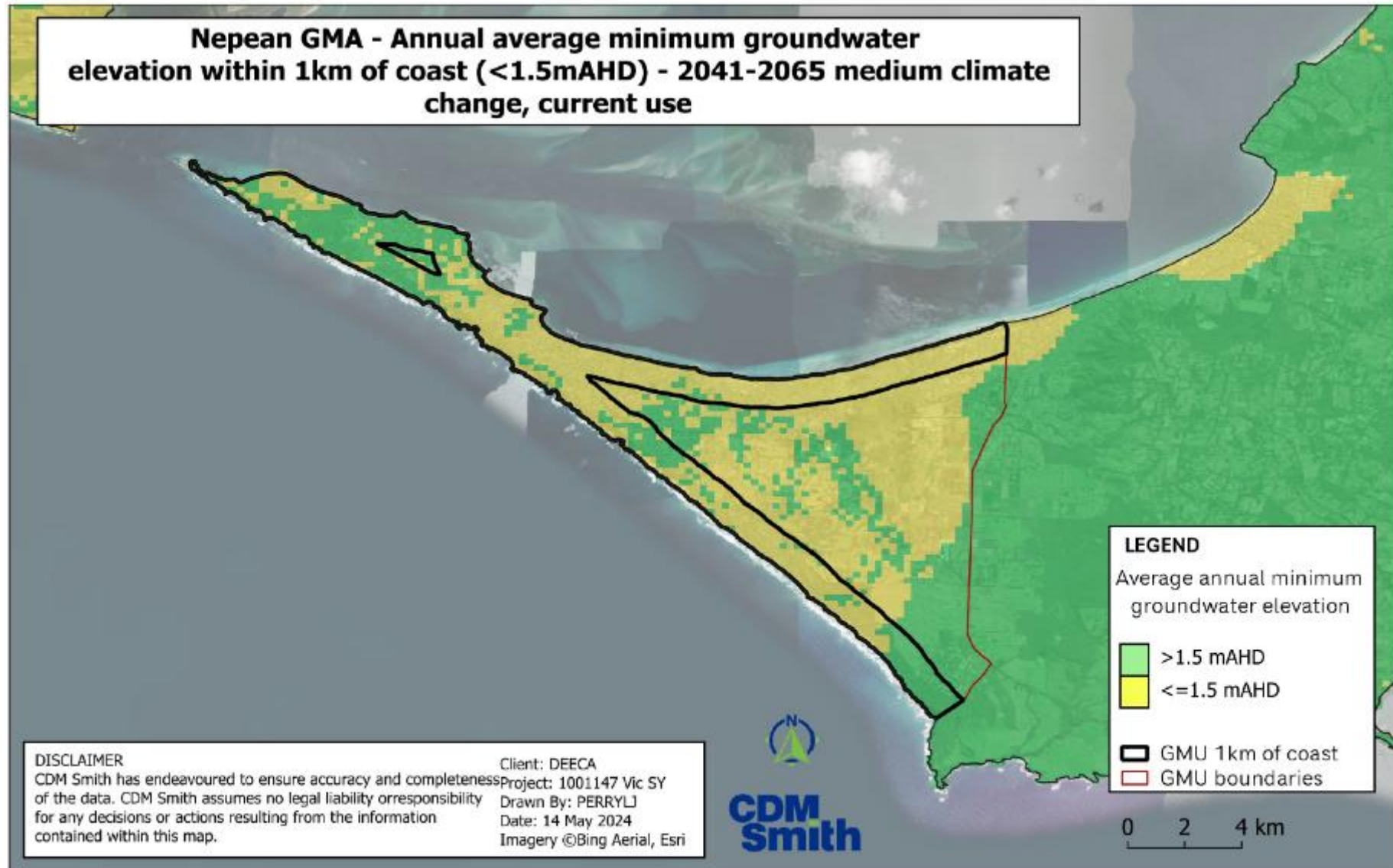


Figure PP-98 Seawater intrusion analysis area for the Nepean GMA - 2041-2065 medium climate change and current groundwater use.

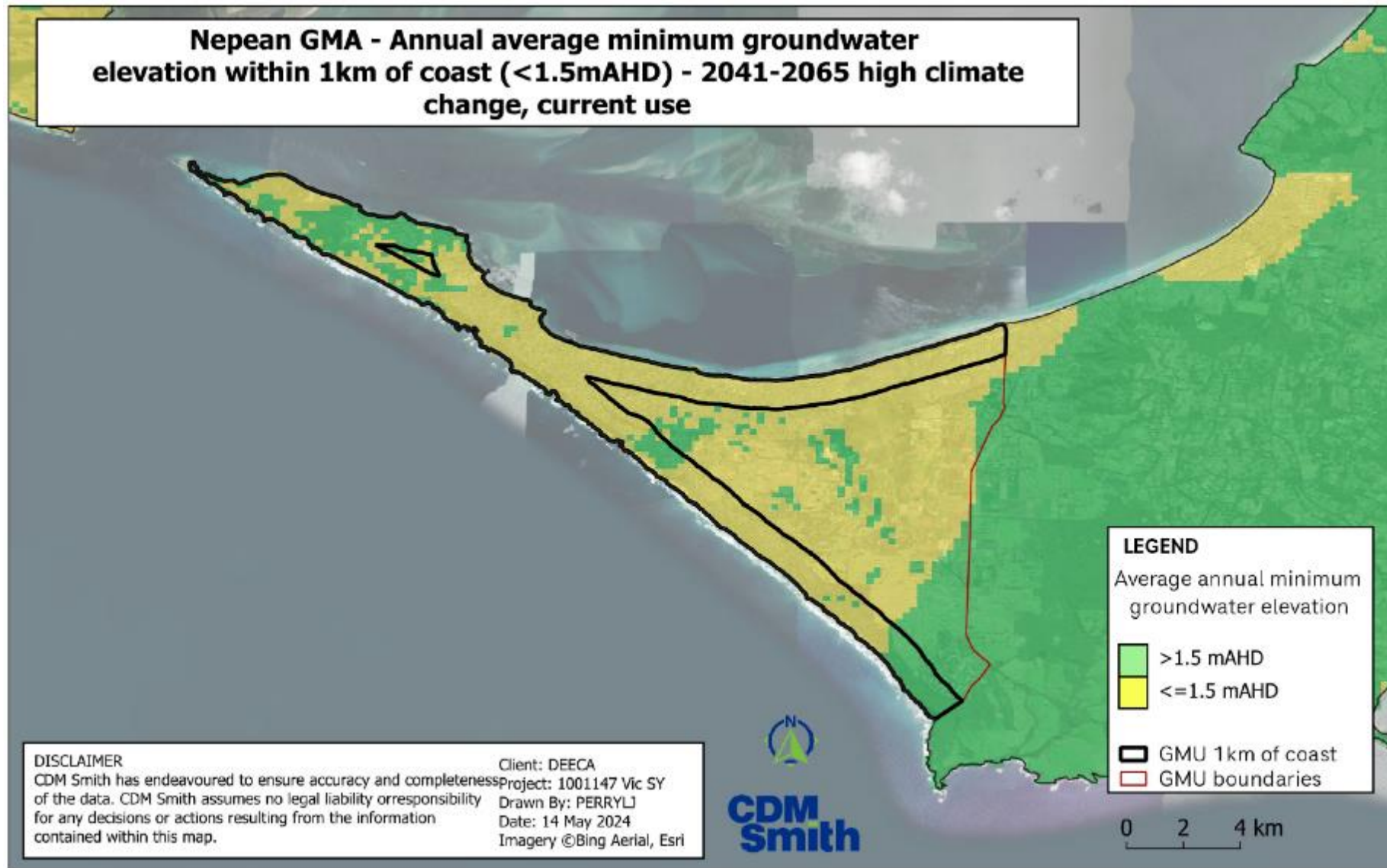


Figure PP-99 Seawater intrusion analysis area for the Nepean GMA - 2041-2065 high climate change and current groundwater use.

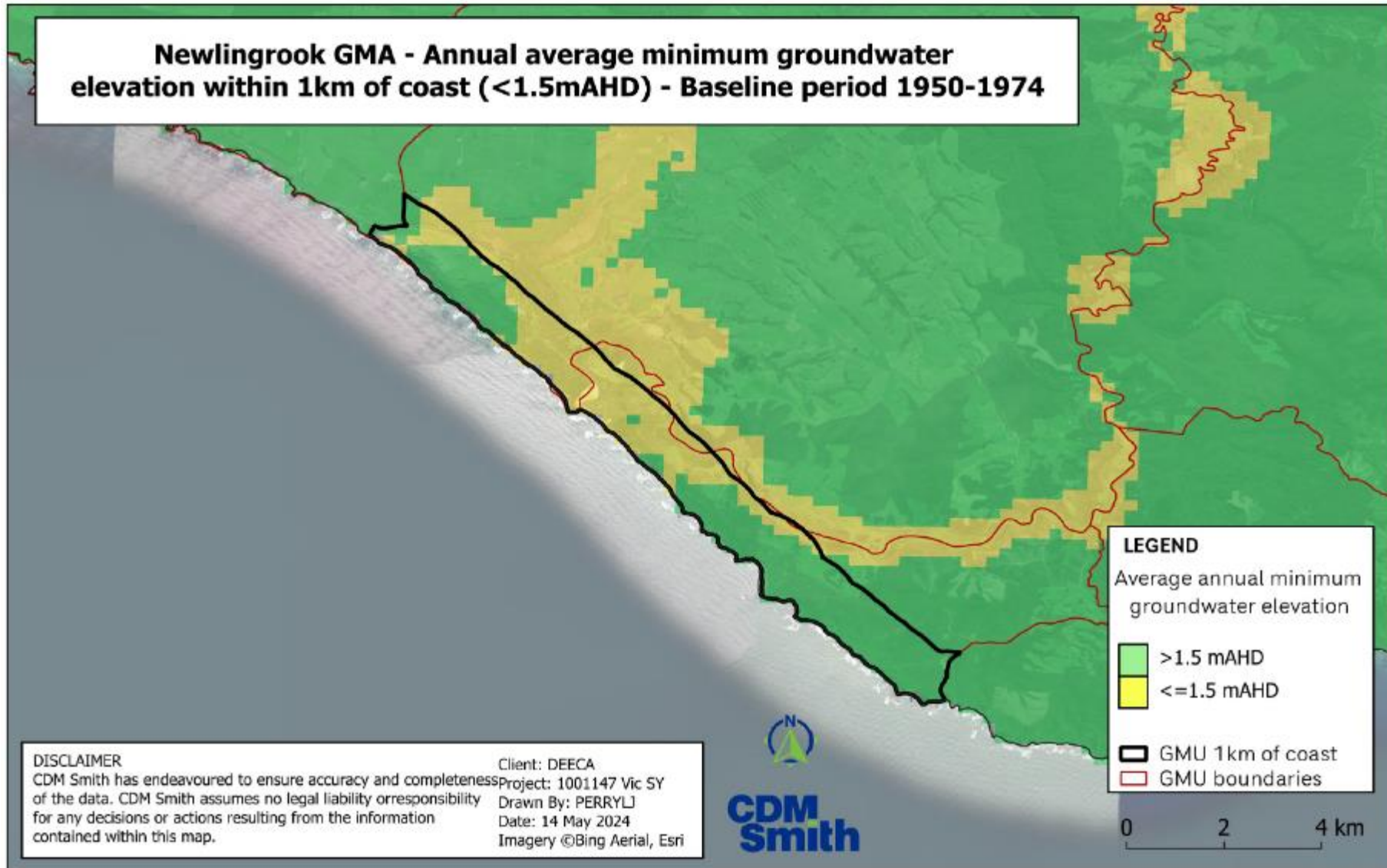


Figure PP-100 Seawater intrusion analysis area for the Newlingrook GMA – Baseline 1950-1974.

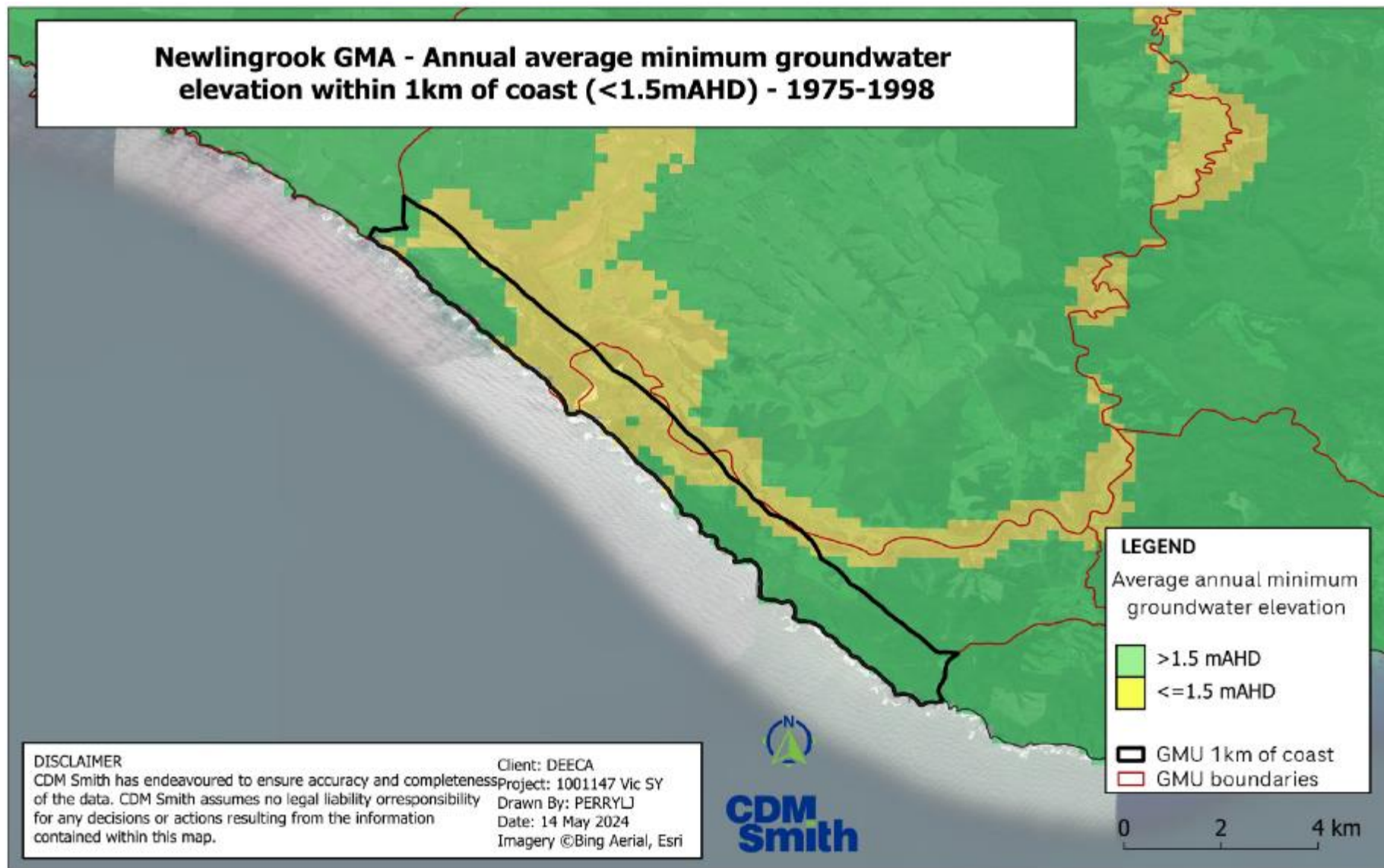


Figure PP-101 Seawater intrusion analysis area for the Newlingrook GMA - 1975-1997.

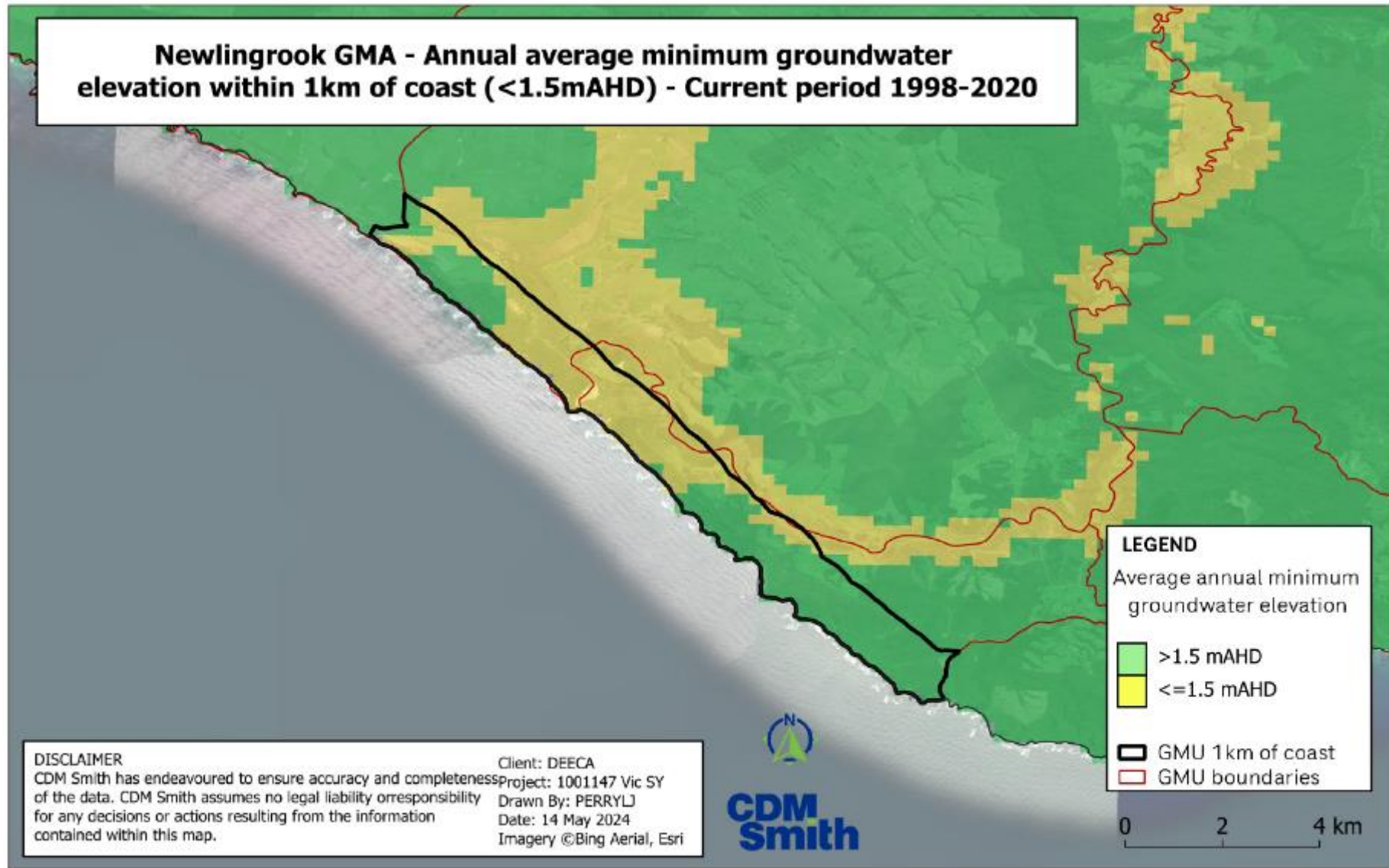


Figure PP-102 Seawater intrusion analysis area for the Newlingrook GMA - 1998-2020.

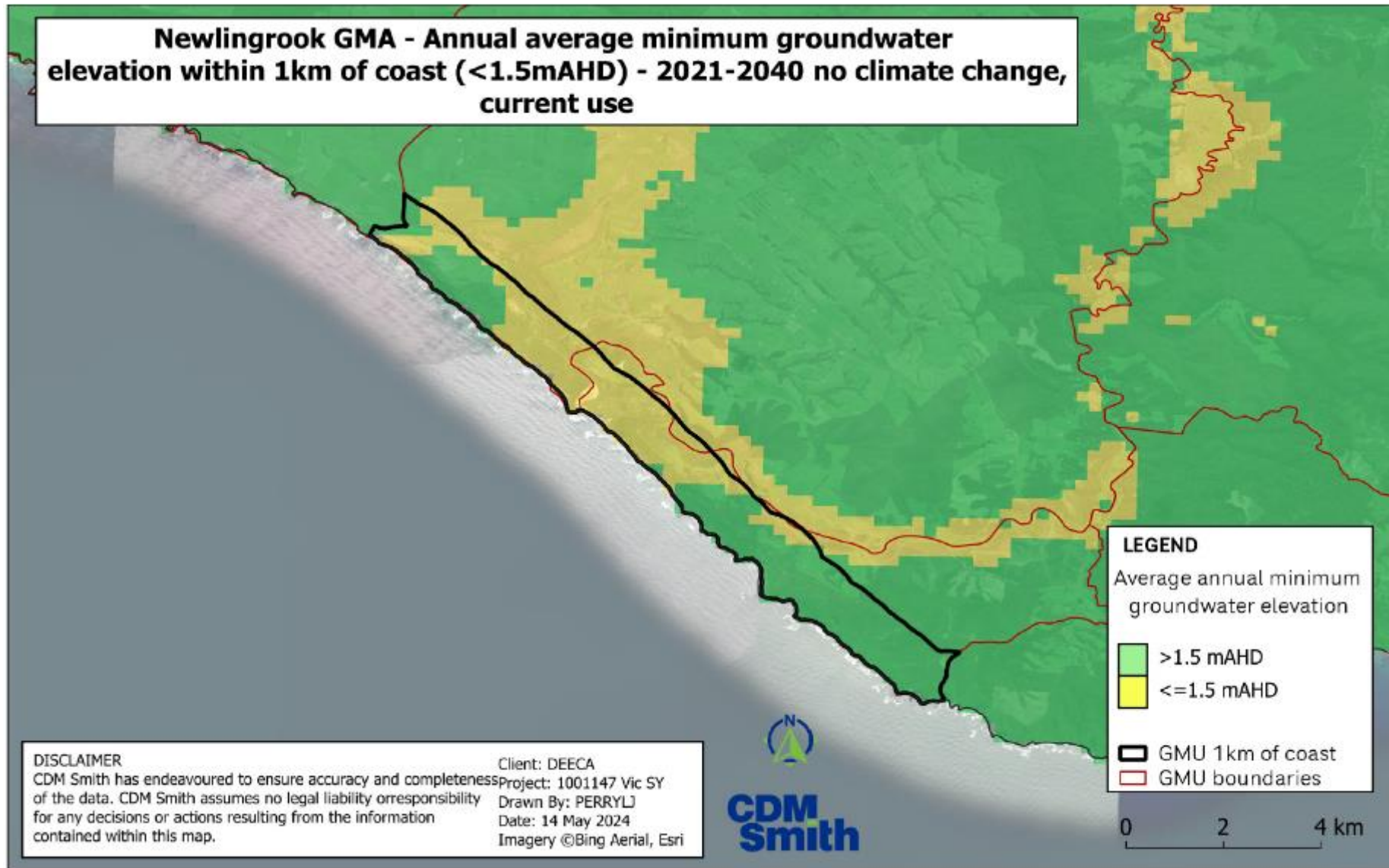


Figure PP-103 Seawater intrusion analysis area for the Newlingbrook GMA – 2021-2040 no climate change and current groundwater use.

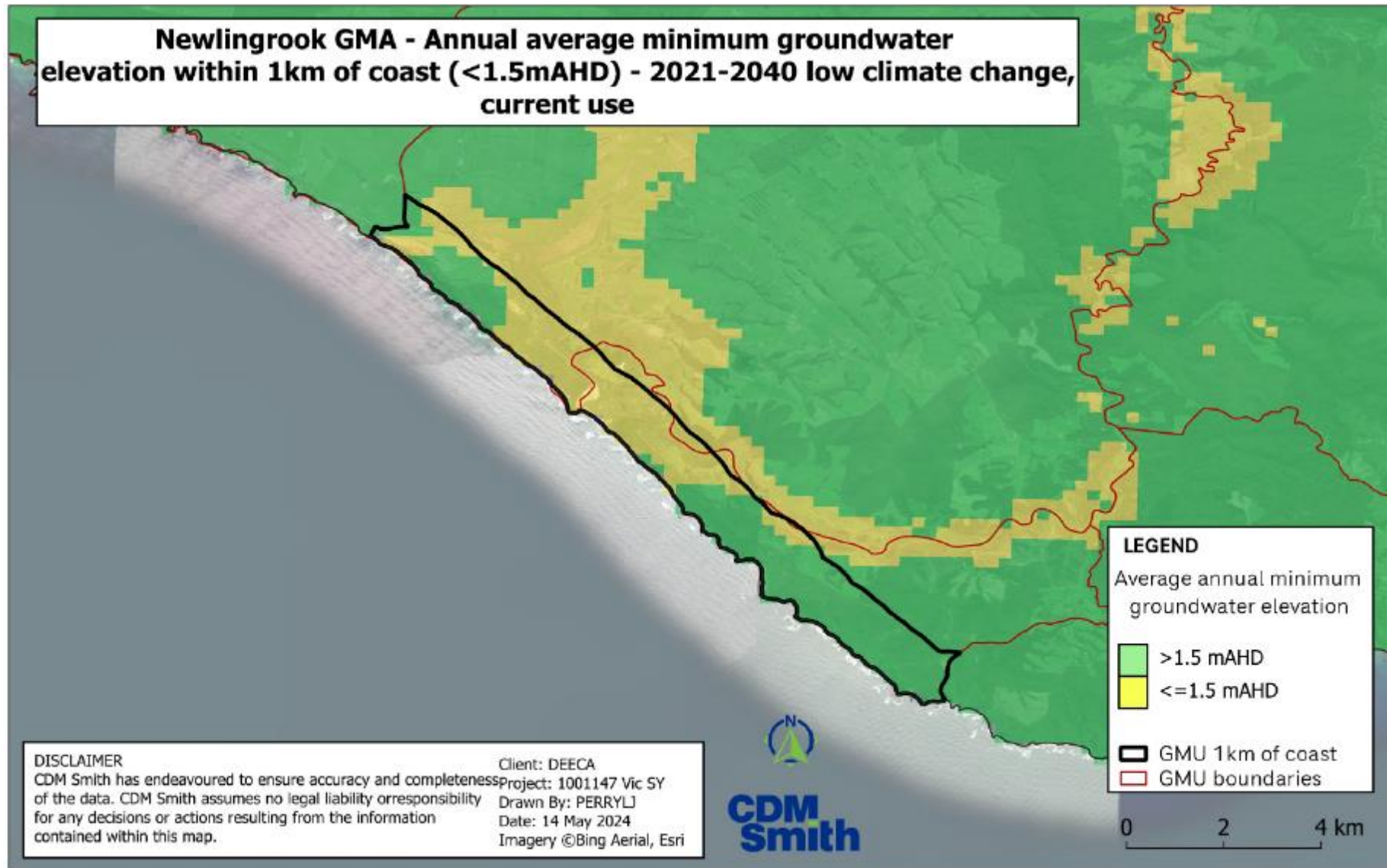


Figure PP-104 Seawater intrusion analysis area for the Newlingrook GMA – 2021-2040 low climate change and current groundwater use.

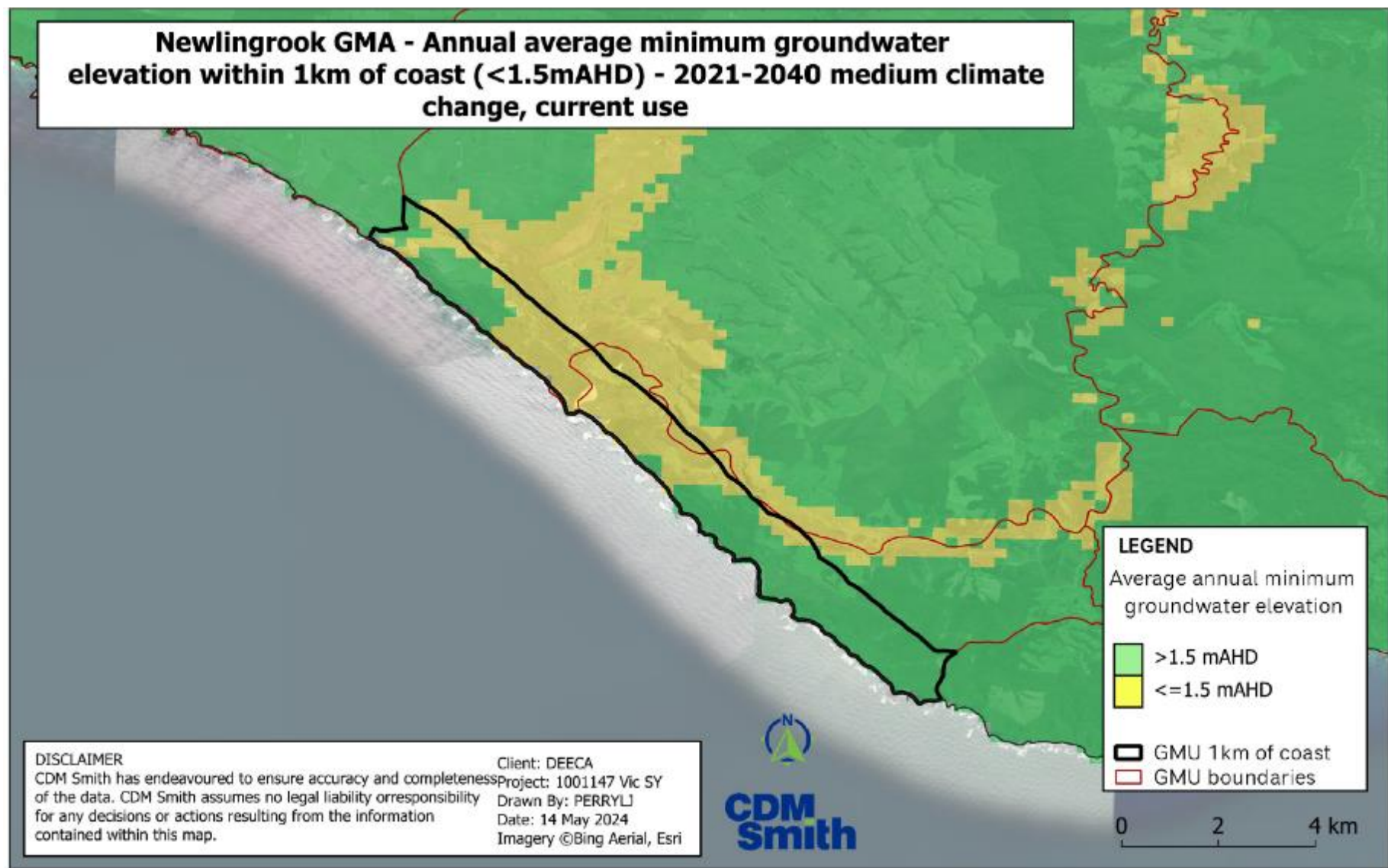


Figure PP-105 Seawater intrusion analysis area for the Newlingrook GMA – 2021-2040 medium climate change and current groundwater use.

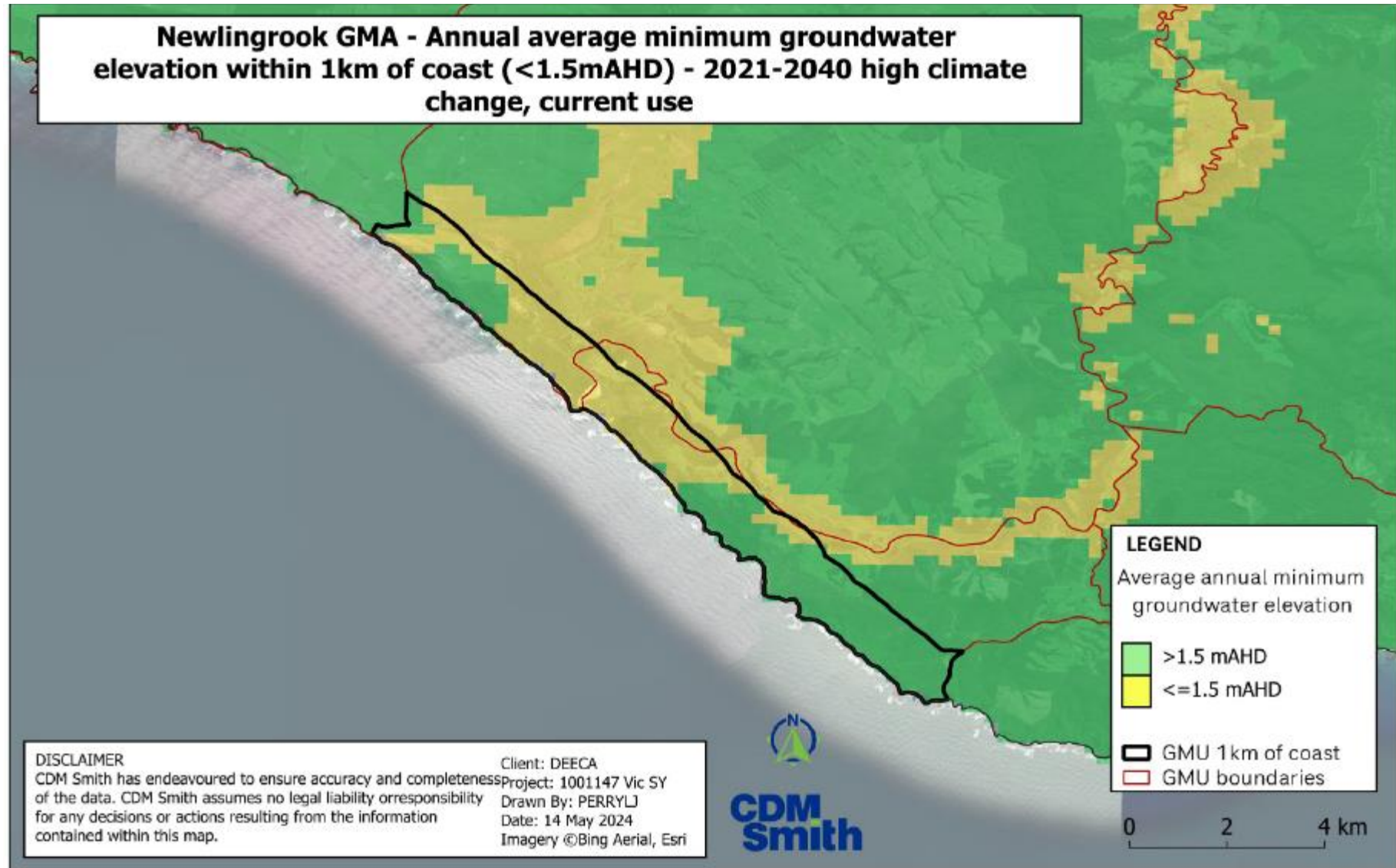


Figure PP-106 Seawater intrusion analysis area for the Newlingrook GMA – 2021-2040 high climate change and current groundwater use.

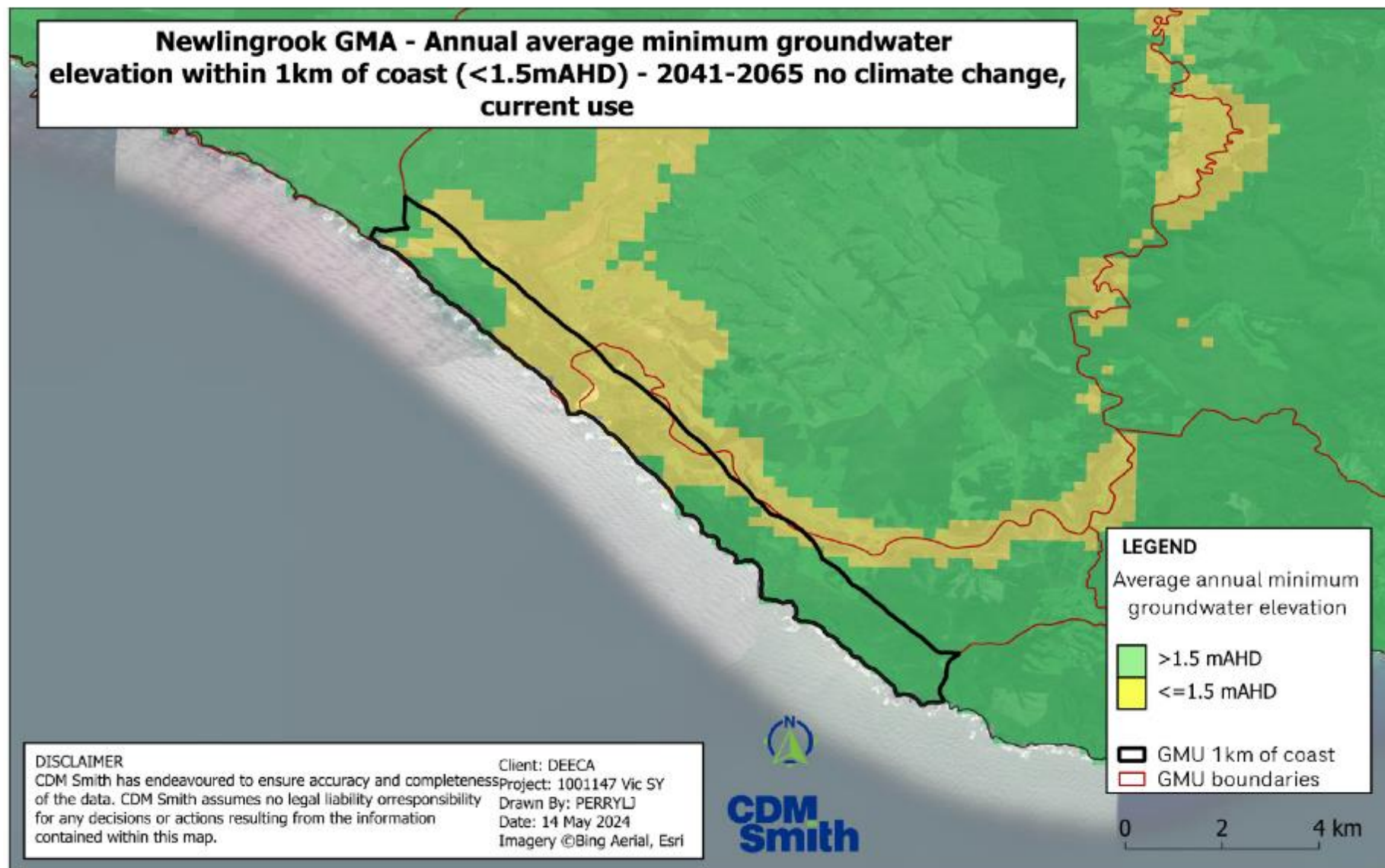


Figure PP-107 Seawater intrusion analysis area for the Newlingbrook GMA – 2041-2065 no climate change and current groundwater use.

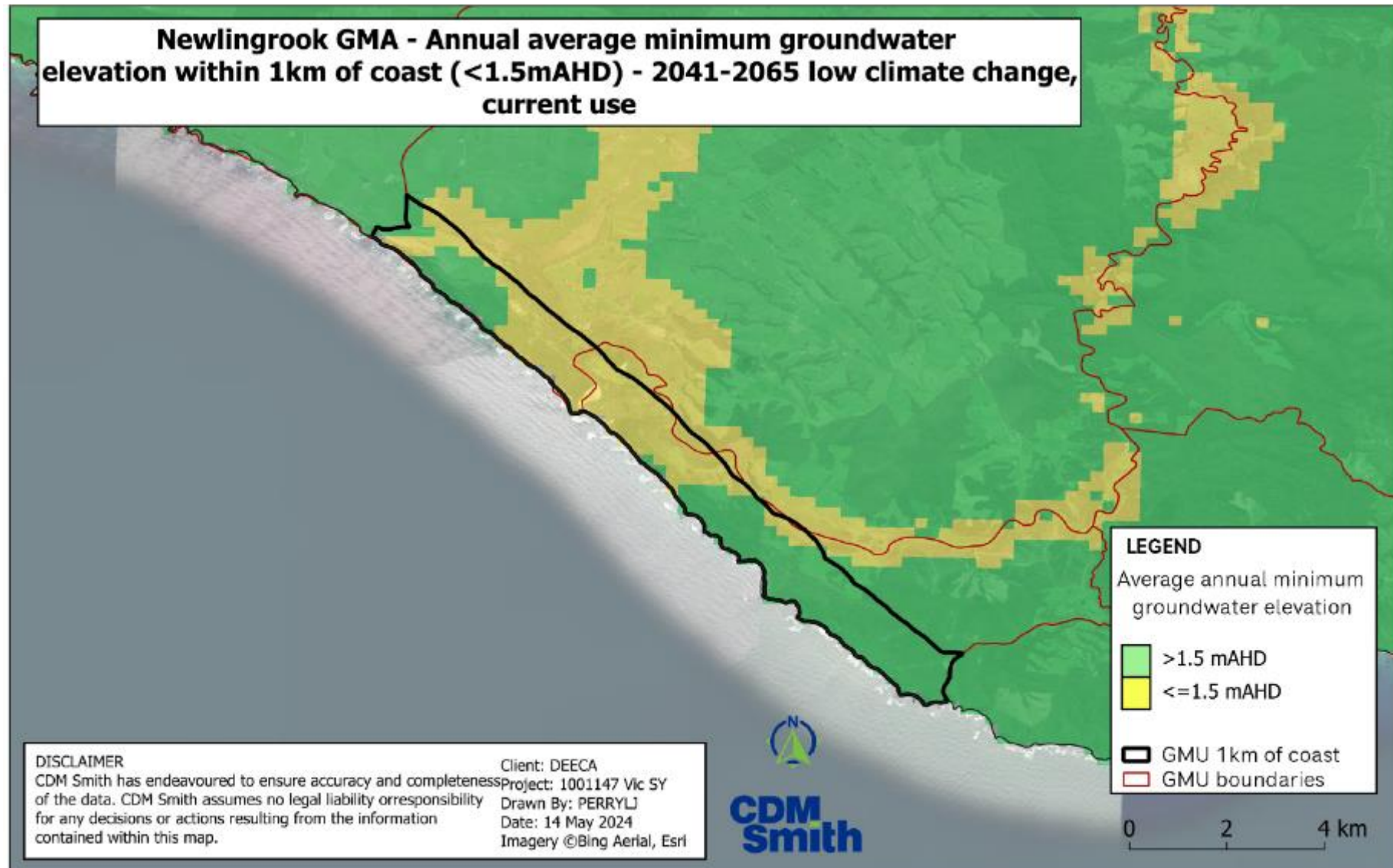


Figure PP-108 Seawater intrusion analysis area for the Newlingrook GMA – 2041-2065 low climate change and current groundwater use.

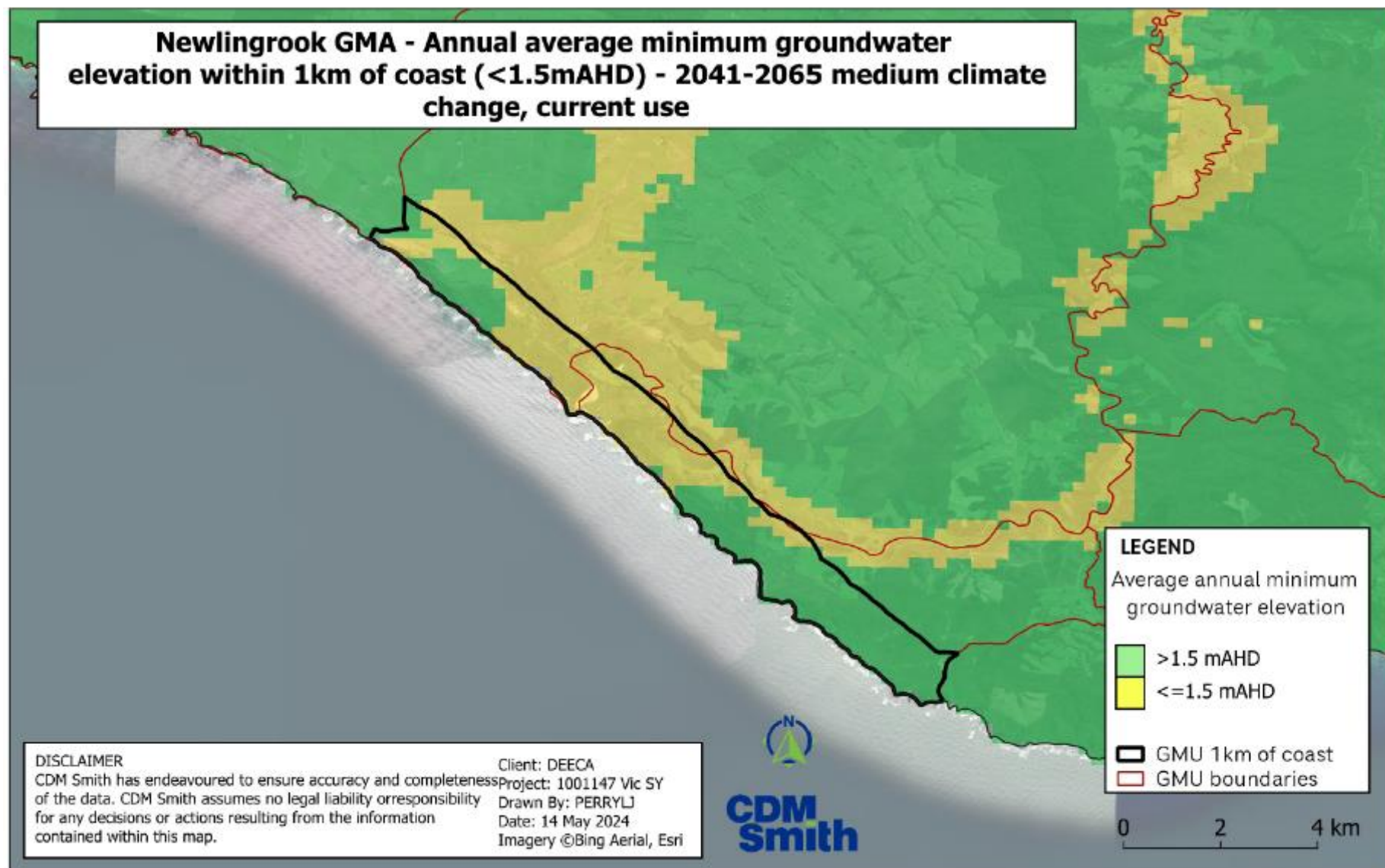


Figure PP-109 Seawater intrusion analysis area for the Newlingrook GMA – 2041-2065 medium climate change and current groundwater use.

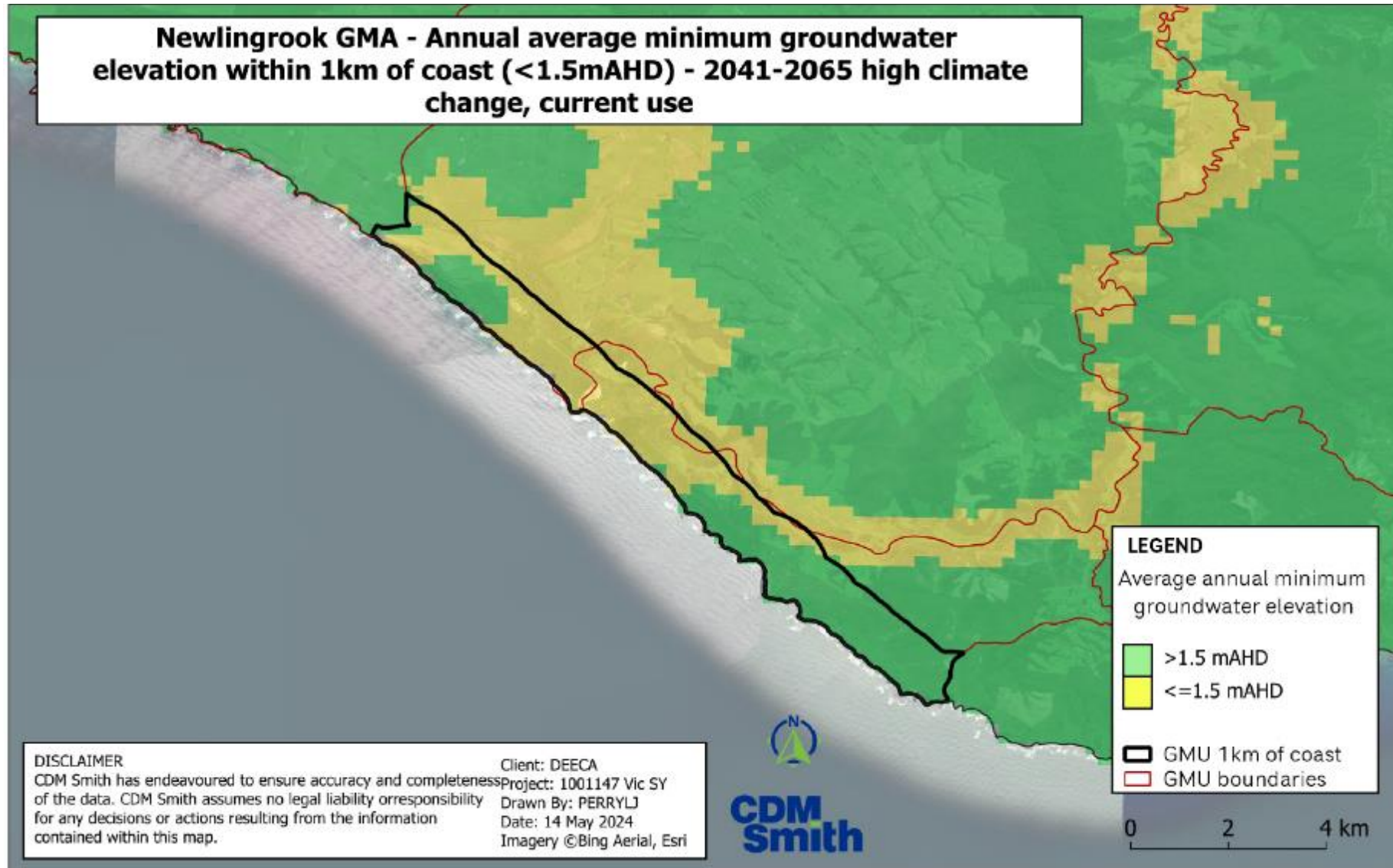


Figure PP-110 Seawater intrusion analysis area for the Newlingrook GMA – 2041-2065 high climate change and current groundwater use.

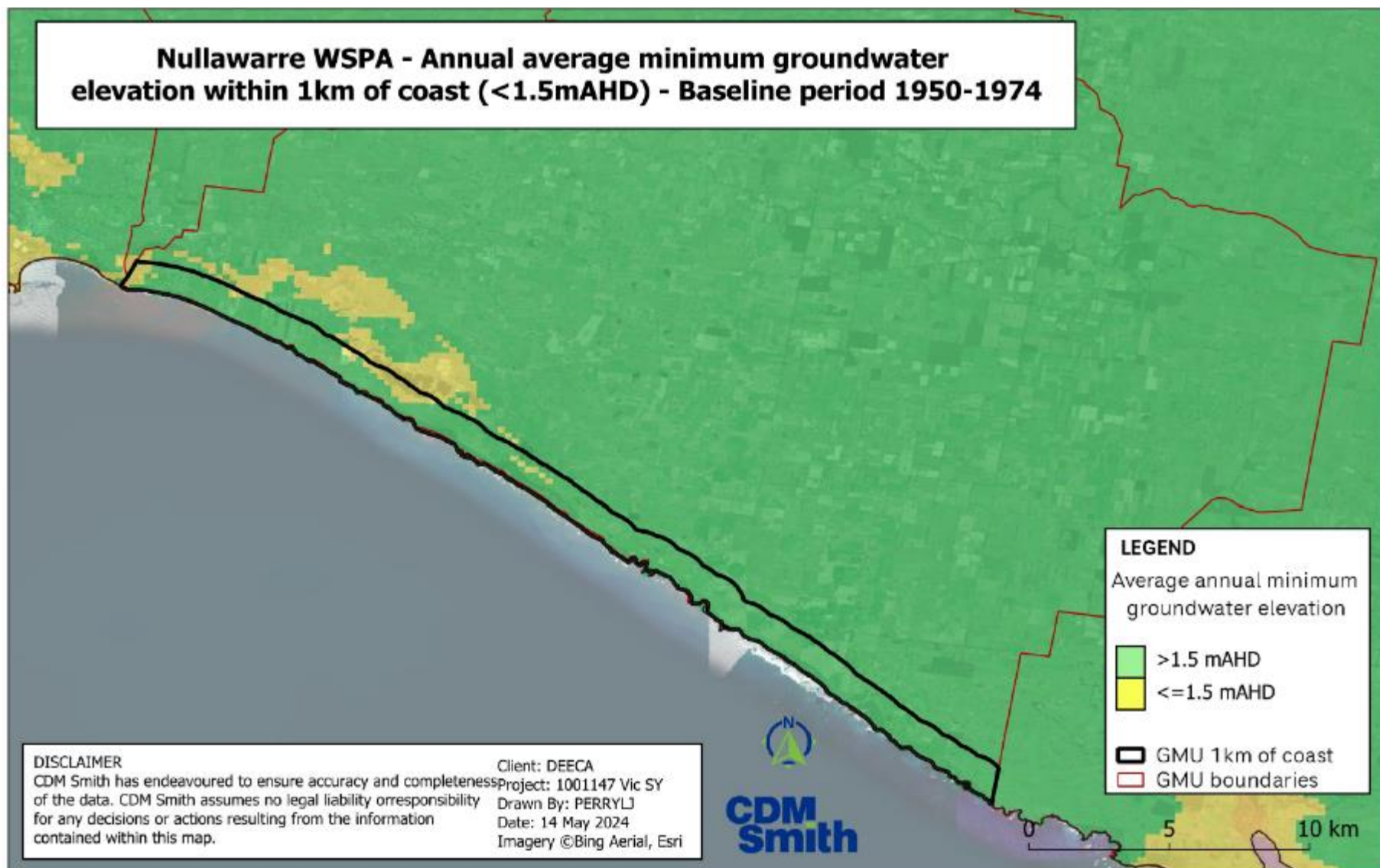


Figure PP-111 Seawater intrusion analysis area for the Nullawarre GMA – Baseline 1950-1974.

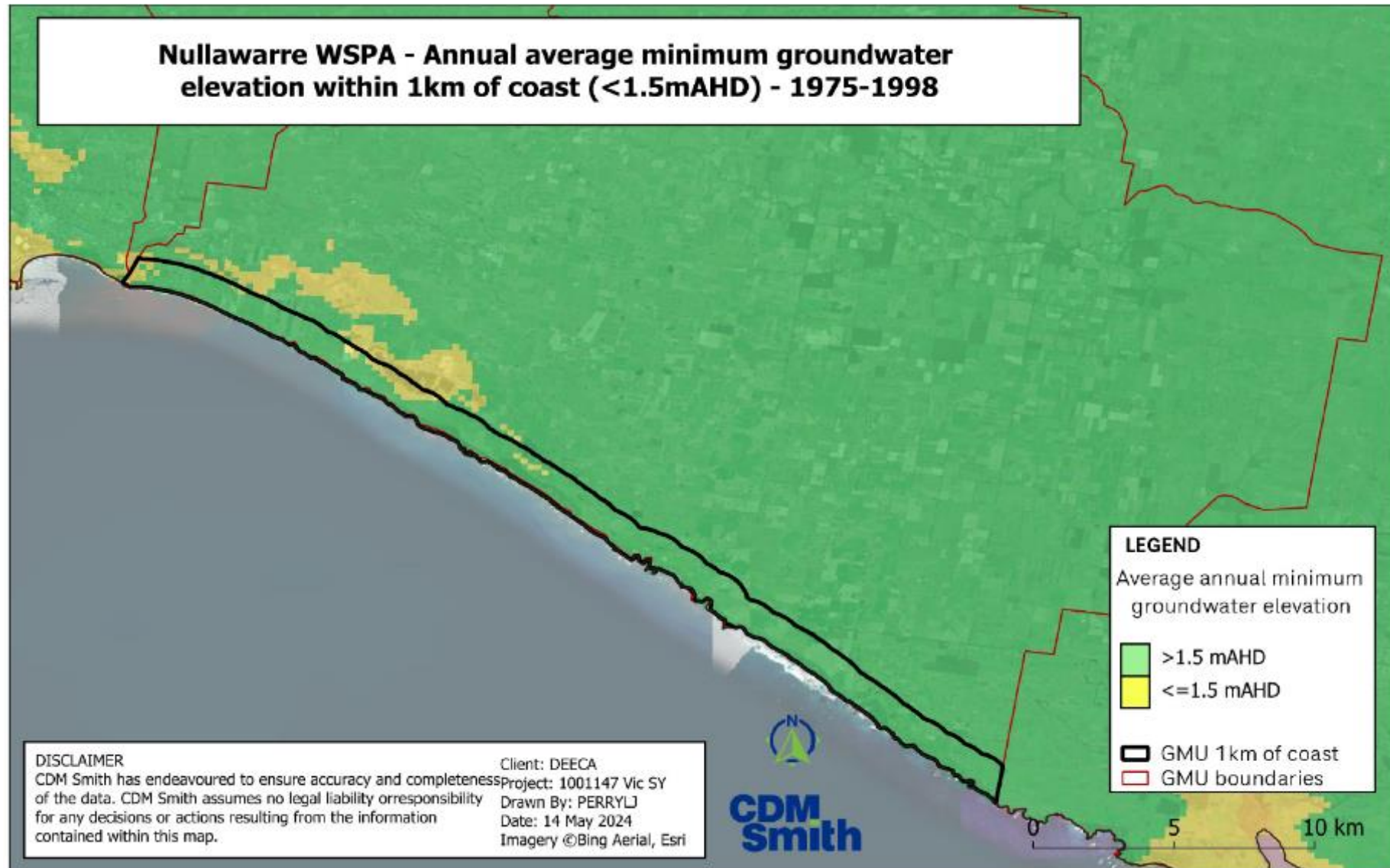


Figure PP-112 Seawater intrusion analysis area for the Nullawarre GMA - 1975-1997.

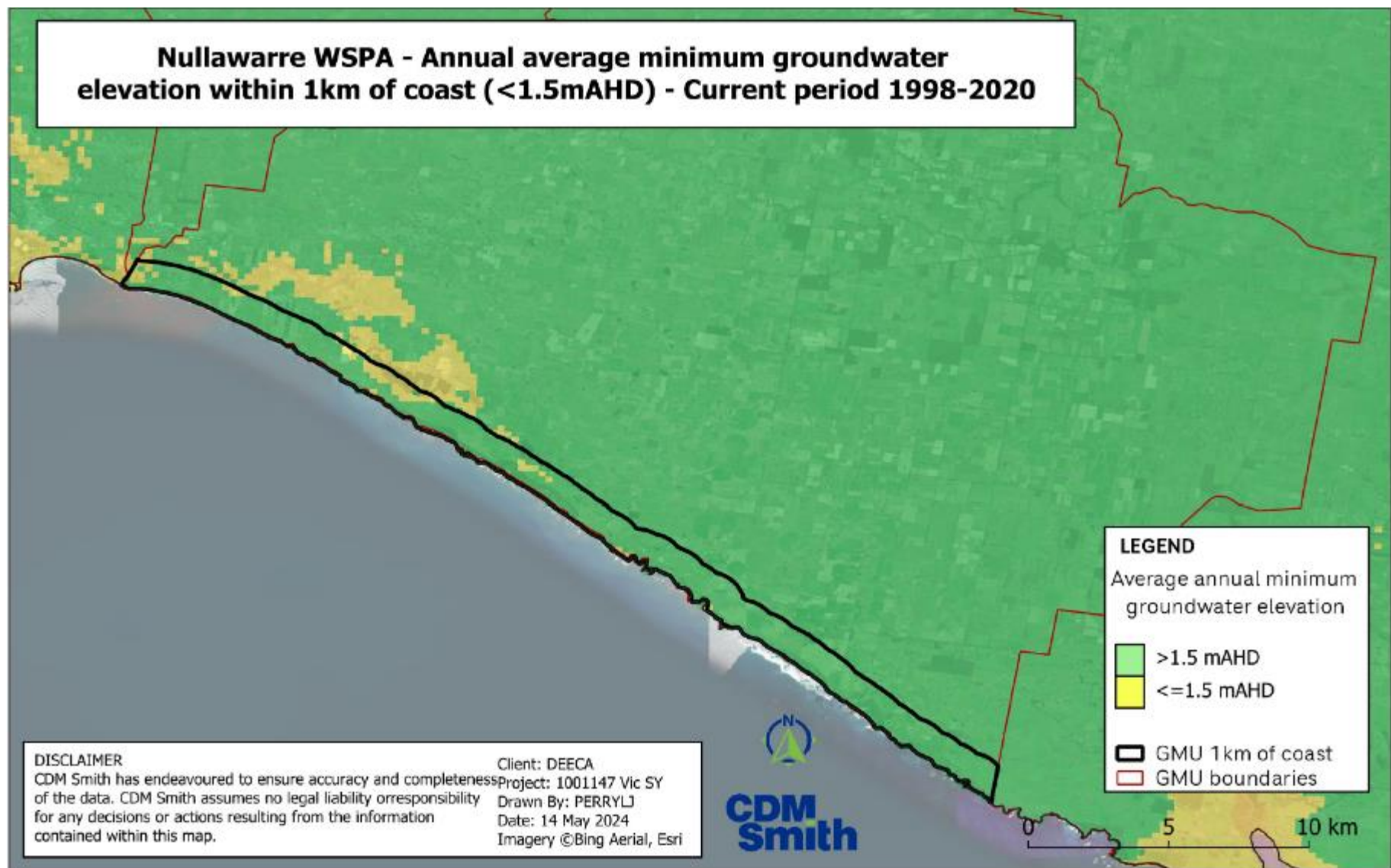


Figure PP-113 Seawater intrusion analysis area for the Nullawarre GMA - 1998-2020.

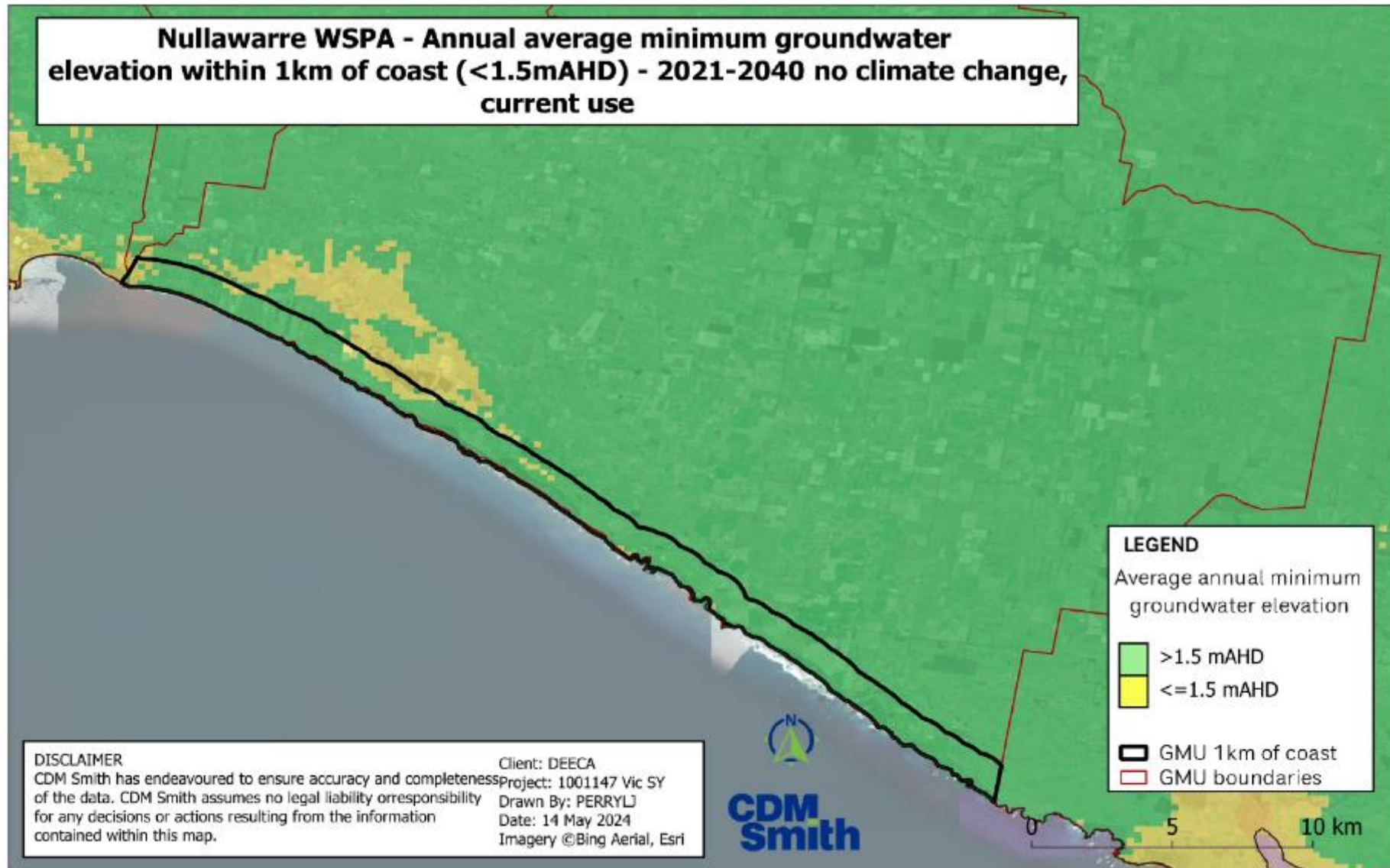


Figure PP-114 Seawater intrusion analysis area for the Nullawarre GMA – 2021-2040 no climate change and current groundwater use.

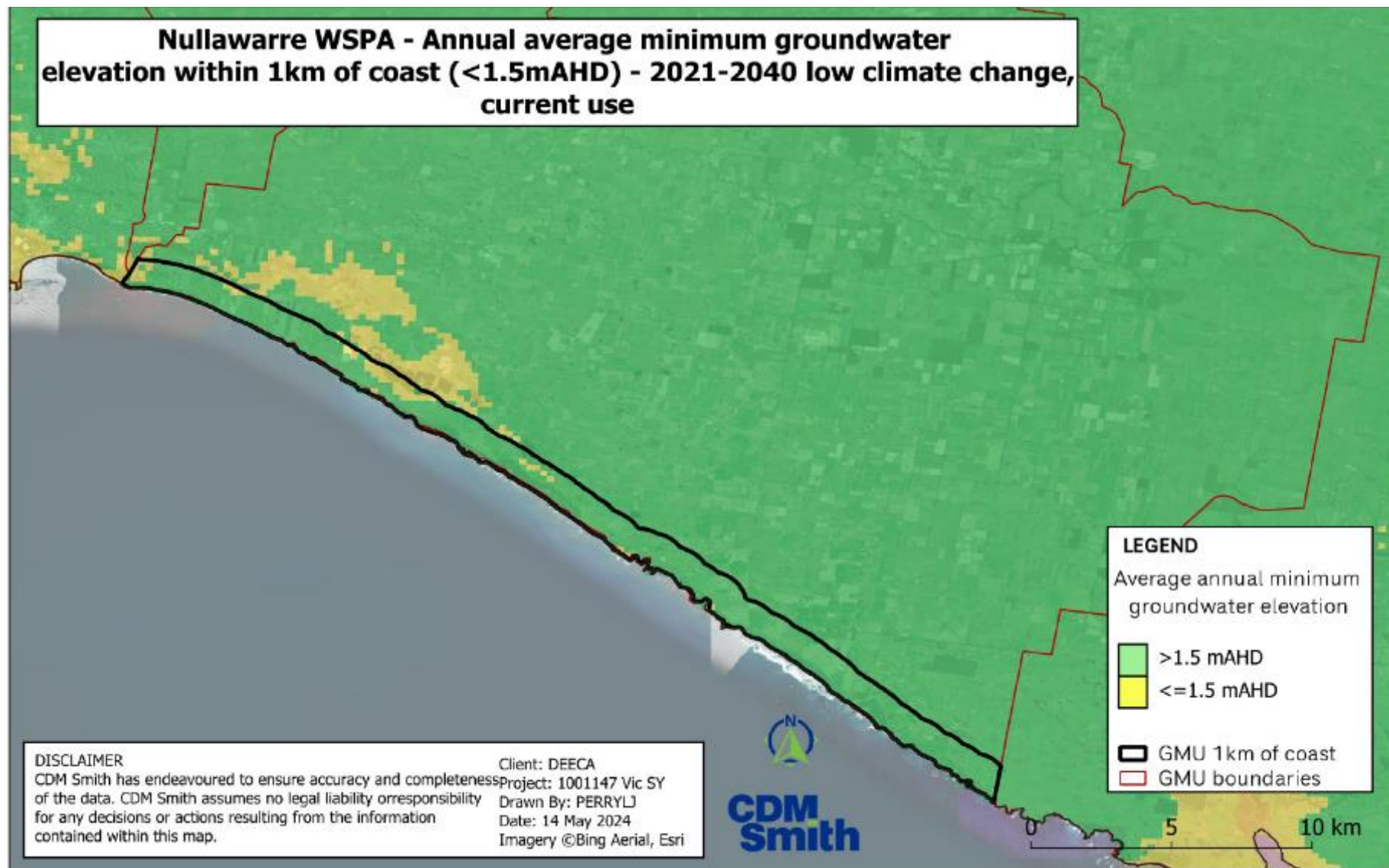


Figure PP-115 Seawater intrusion analysis area for the Nullawarre GMA - 2021-2040 low climate change and current groundwater use.

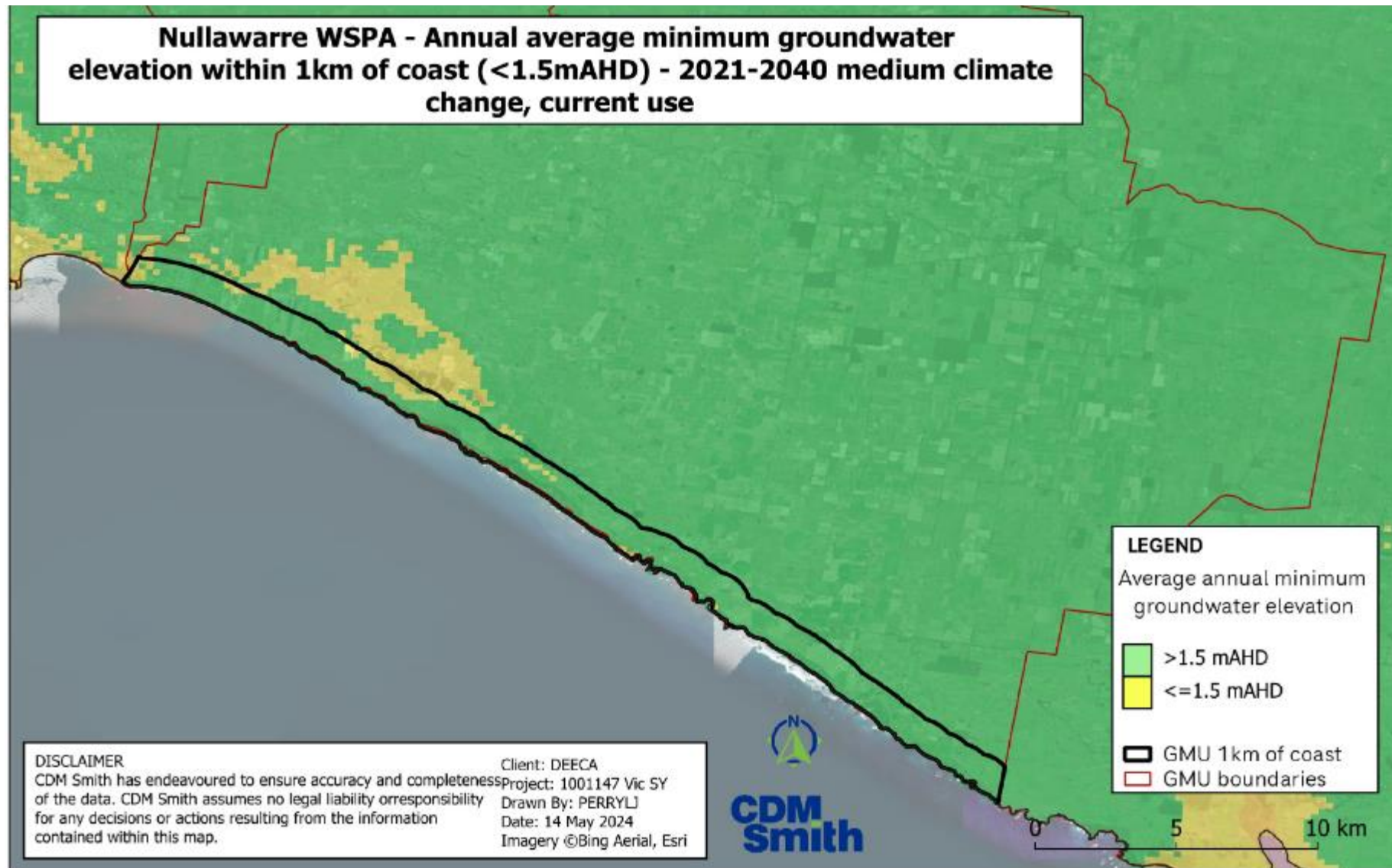


Figure PP-116 Seawater intrusion analysis area for the Nullawarre GMA – 2021-2040 medium climate change and current groundwater use.

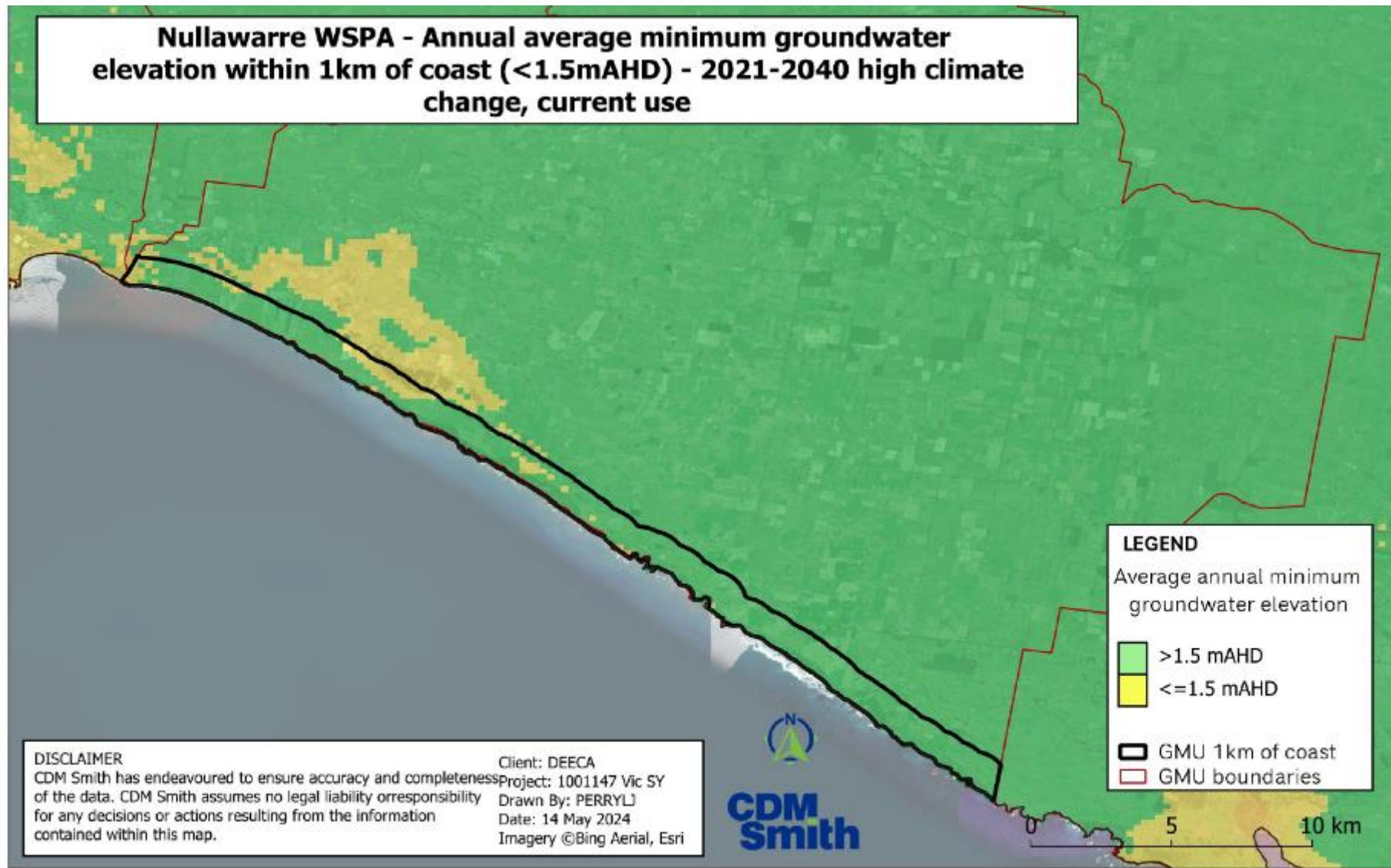


Figure PP-117 Seawater intrusion analysis area for the Nullawarre GMA – 2021-2040 high climate change and current groundwater use.

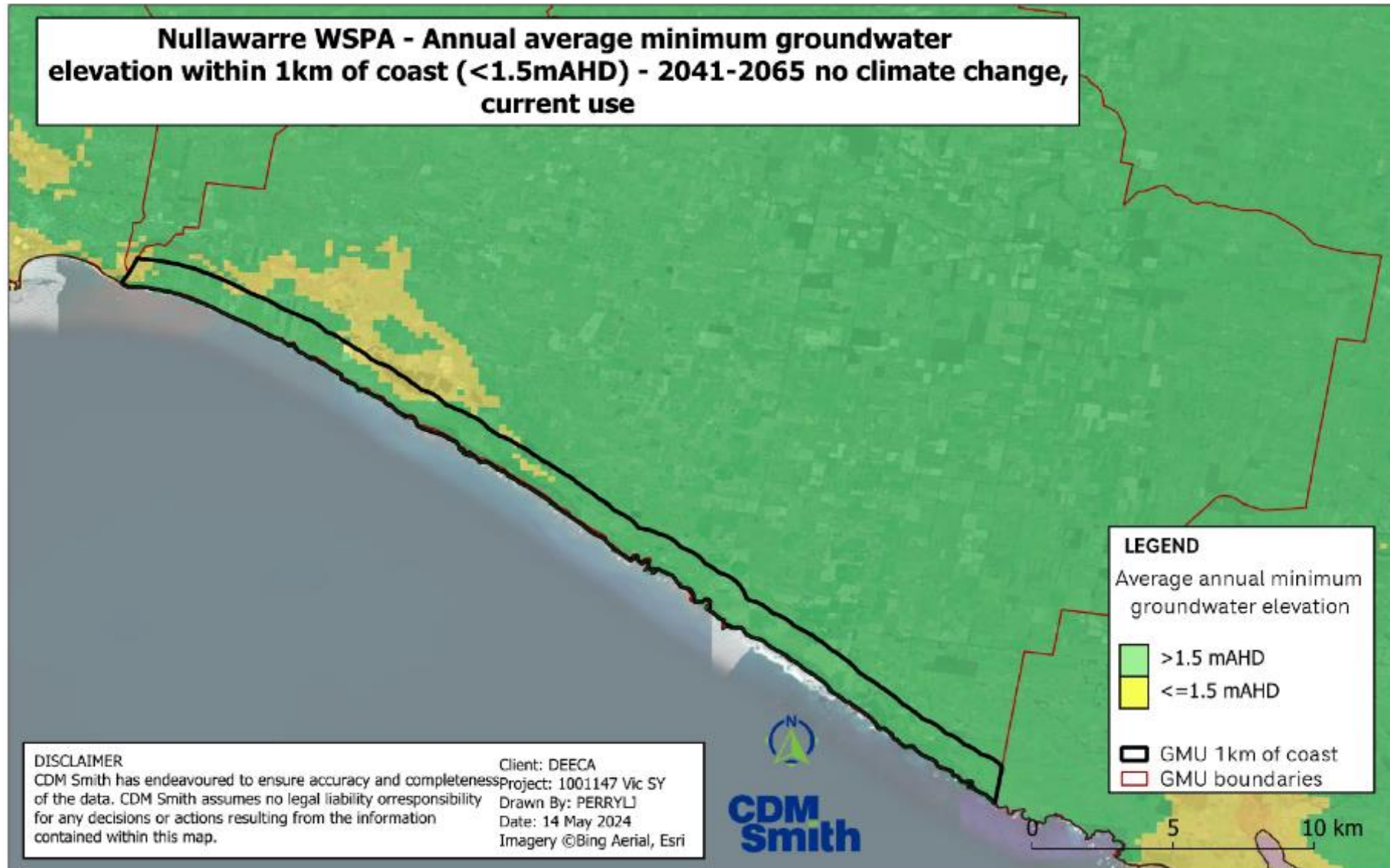


Figure PP-118 Seawater intrusion analysis area for the Nullawarre GMA – 2041-2065 no climate change and current groundwater use.

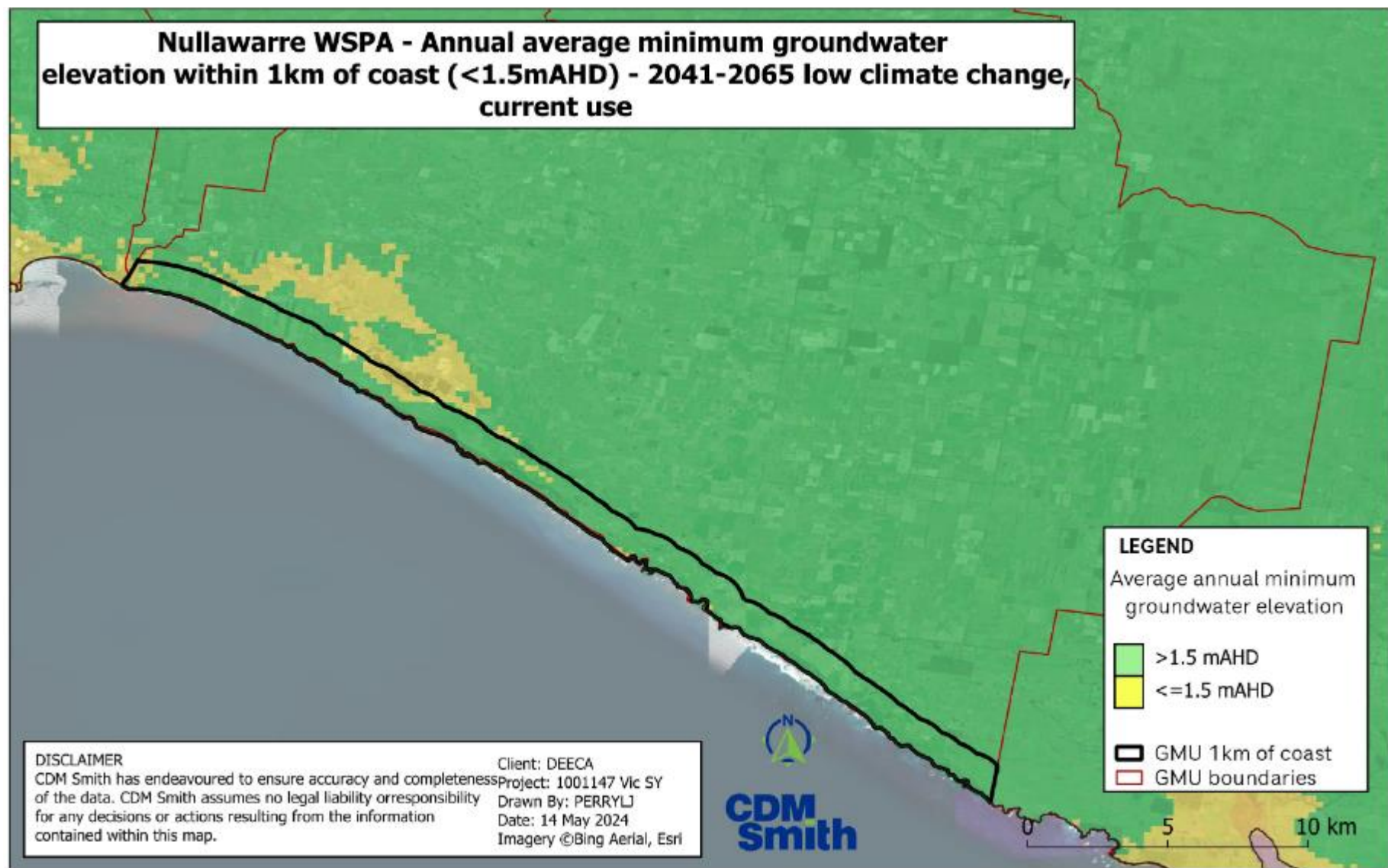


Figure PP-119 Seawater intrusion analysis area for the Nullawarre GMA – 2041-2065 low climate change and current groundwater use.

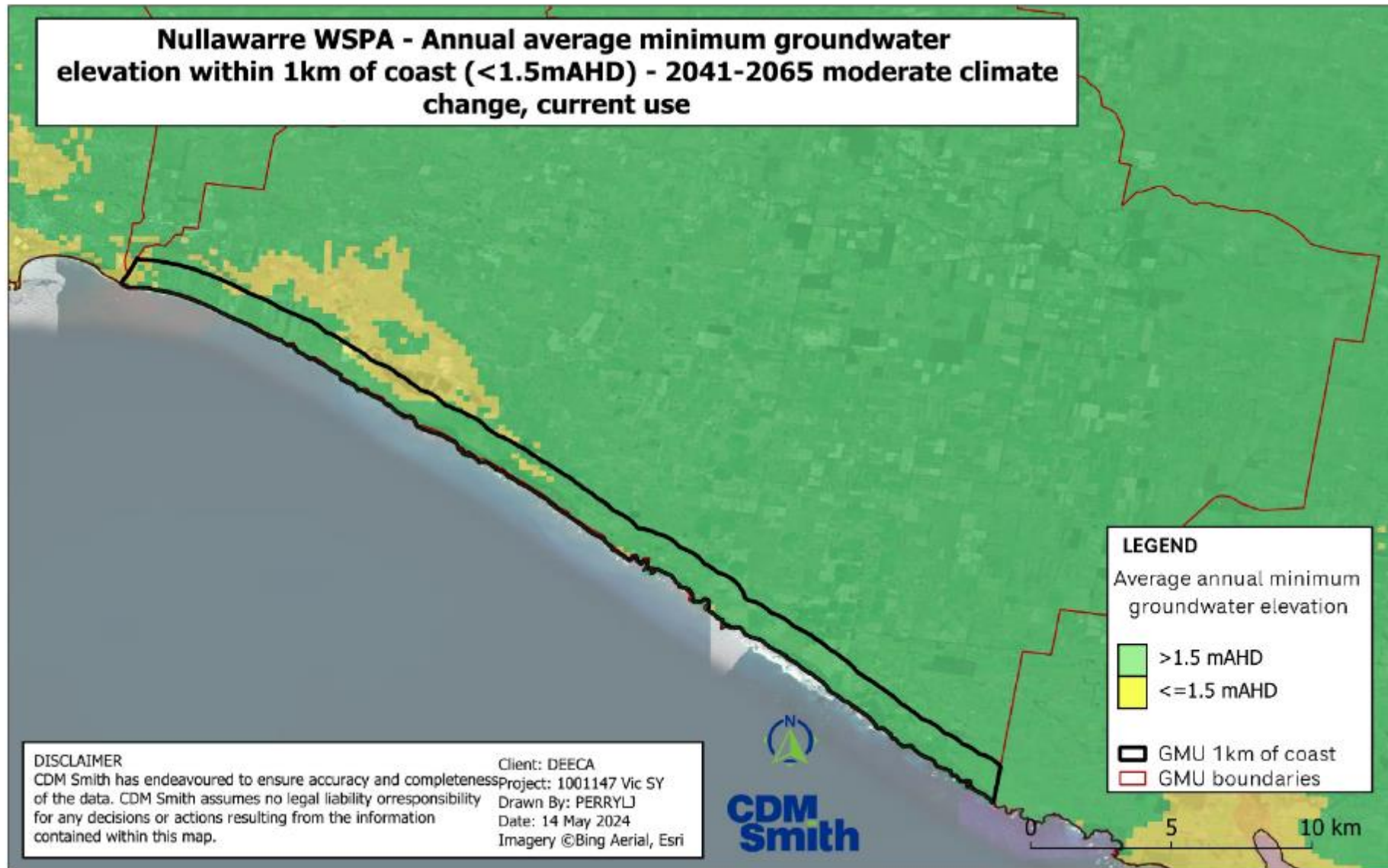


Figure PP-120 Seawater intrusion analysis area for the Nullawarre GMA – 2041-2065 medium climate change and current groundwater use.

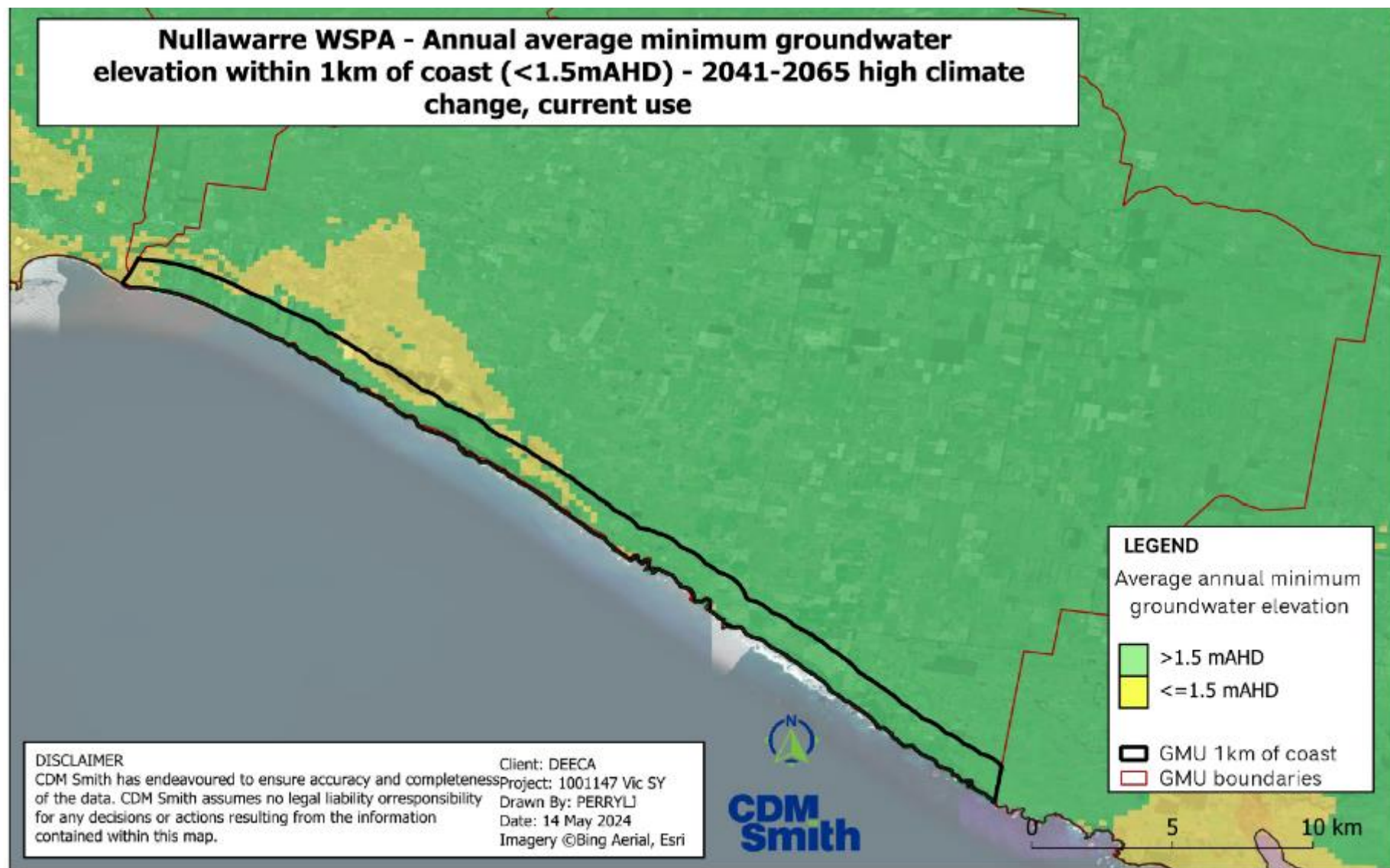


Figure PP-121 Seawater intrusion analysis area for the Nullawarre GMA – 2041-2065 high climate change and current groundwater use.

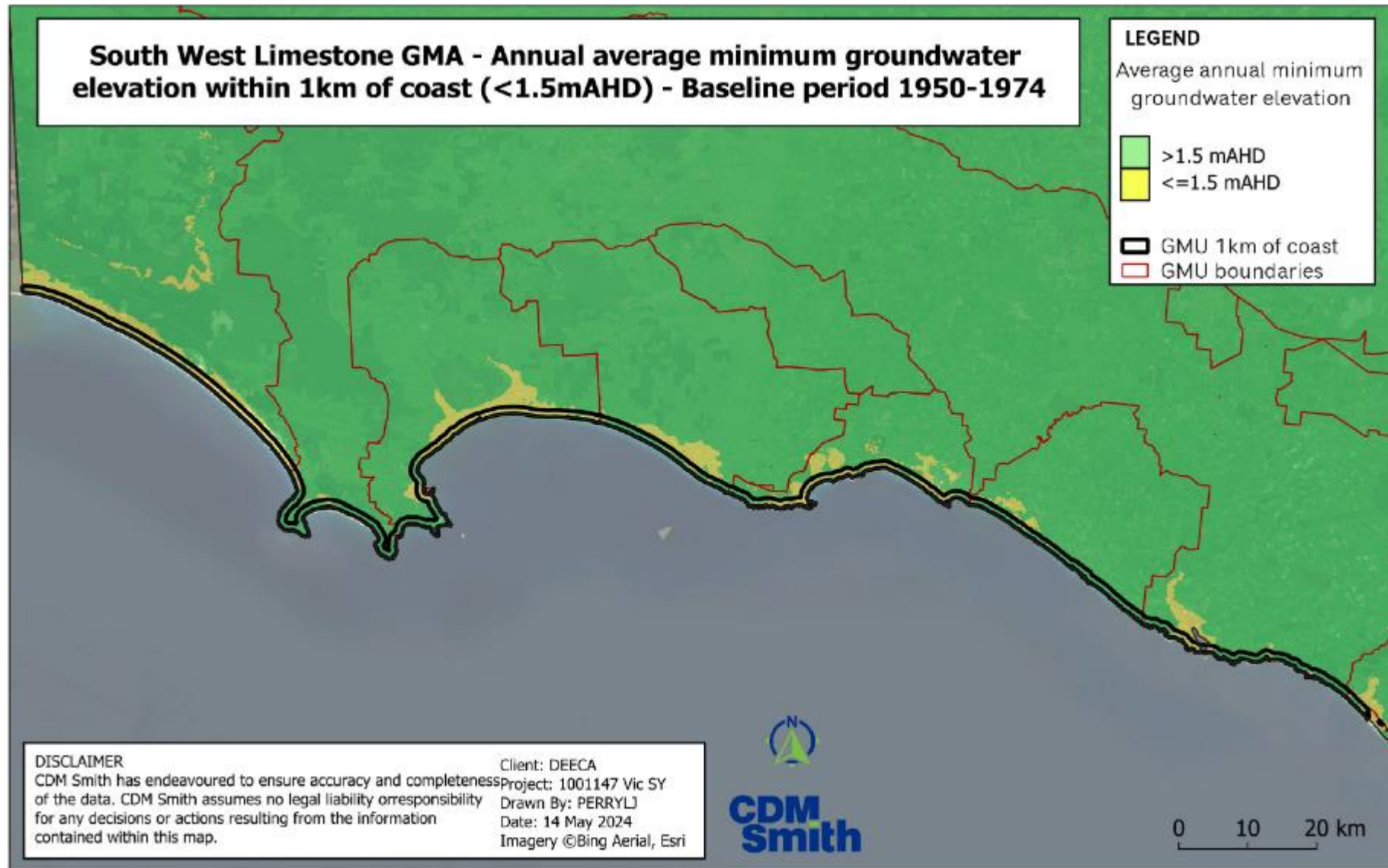


Figure PP-122 Seawater intrusion analysis area for the South West Limestone GMA - Baseline 1950-1974.

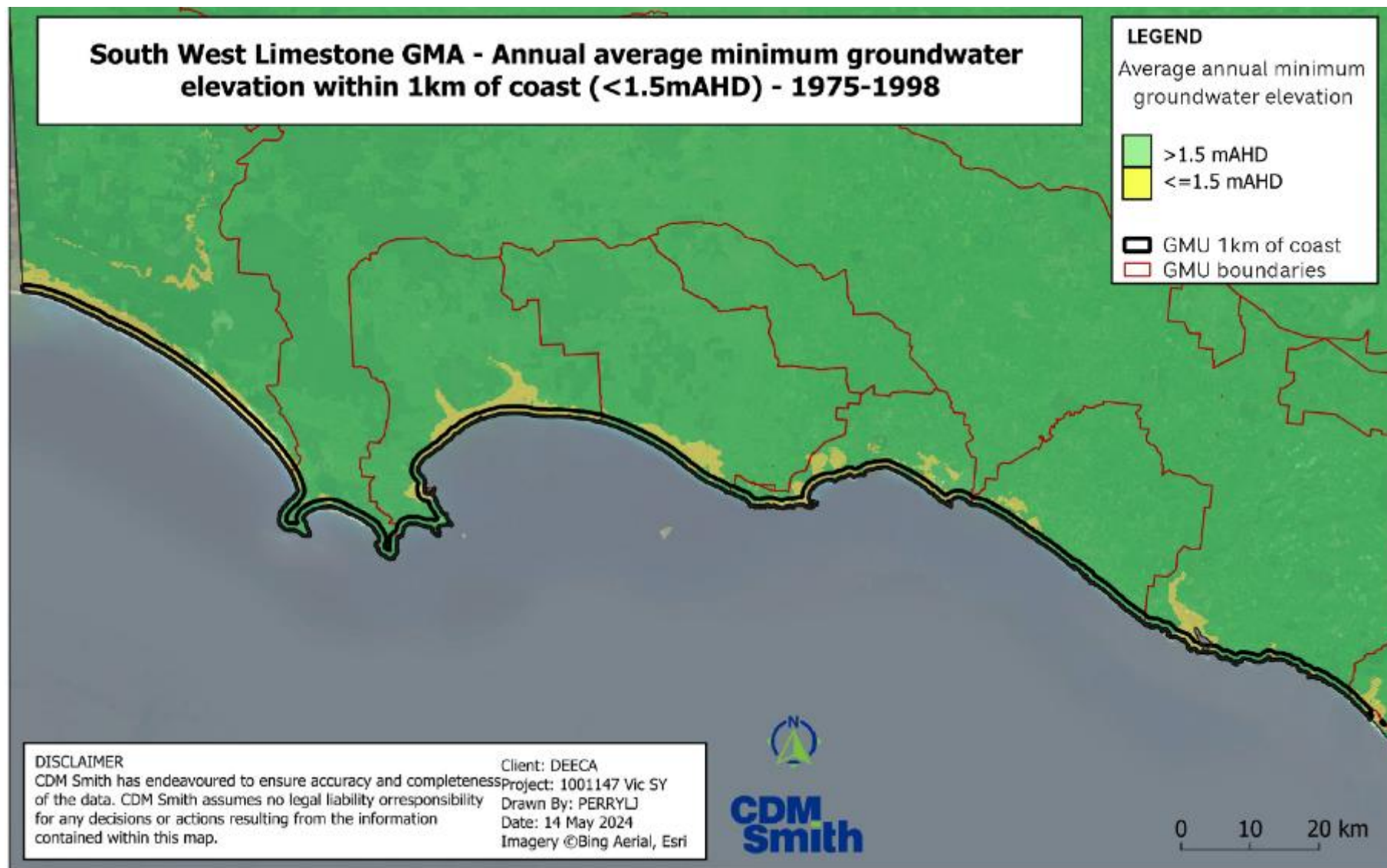


Figure PP-123 Seawater intrusion analysis area for the South West Limestone GMA - 1975-1997.

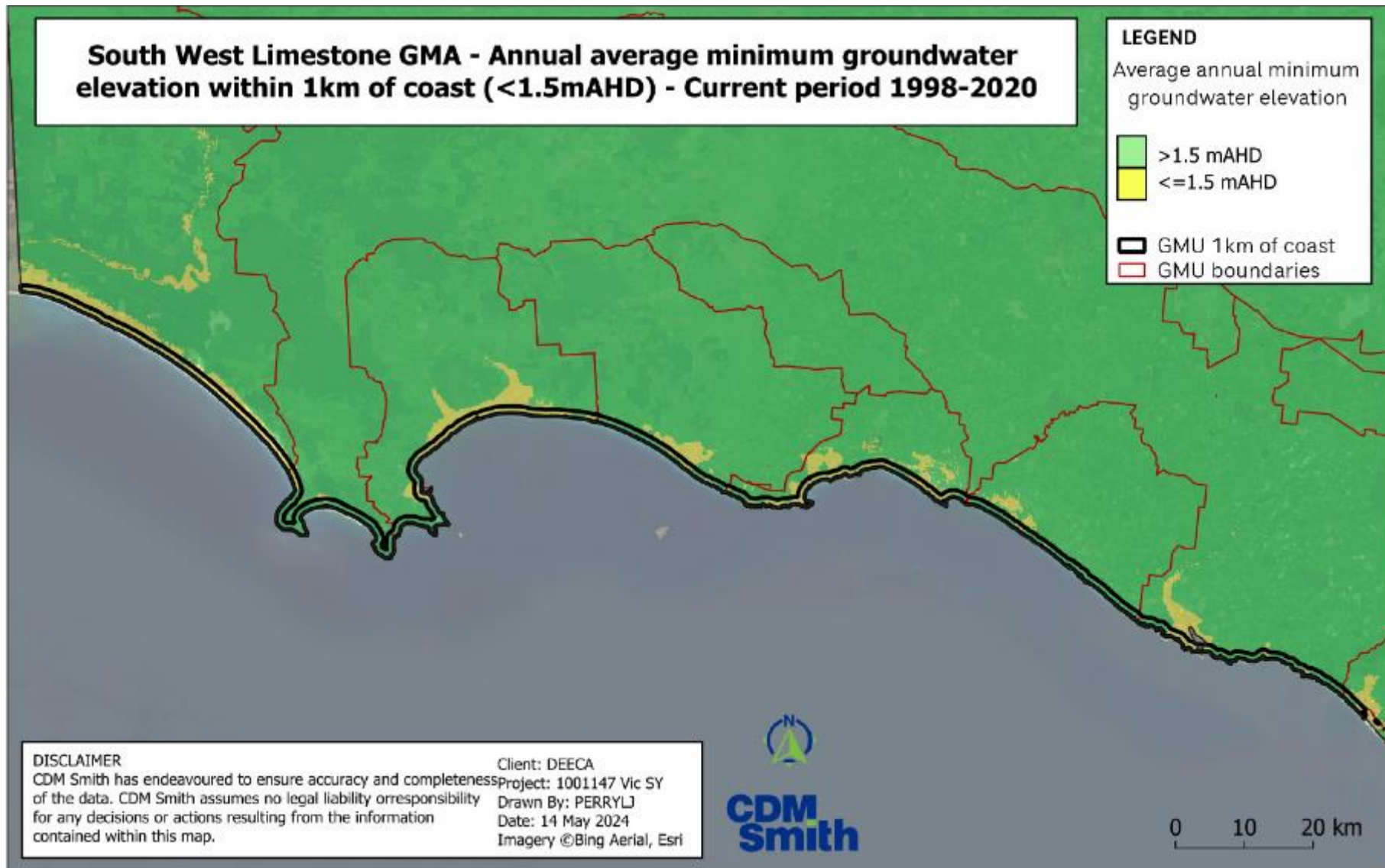


Figure PP-124 Seawater intrusion analysis area for the South West Limestone GMA - 1998-2020.

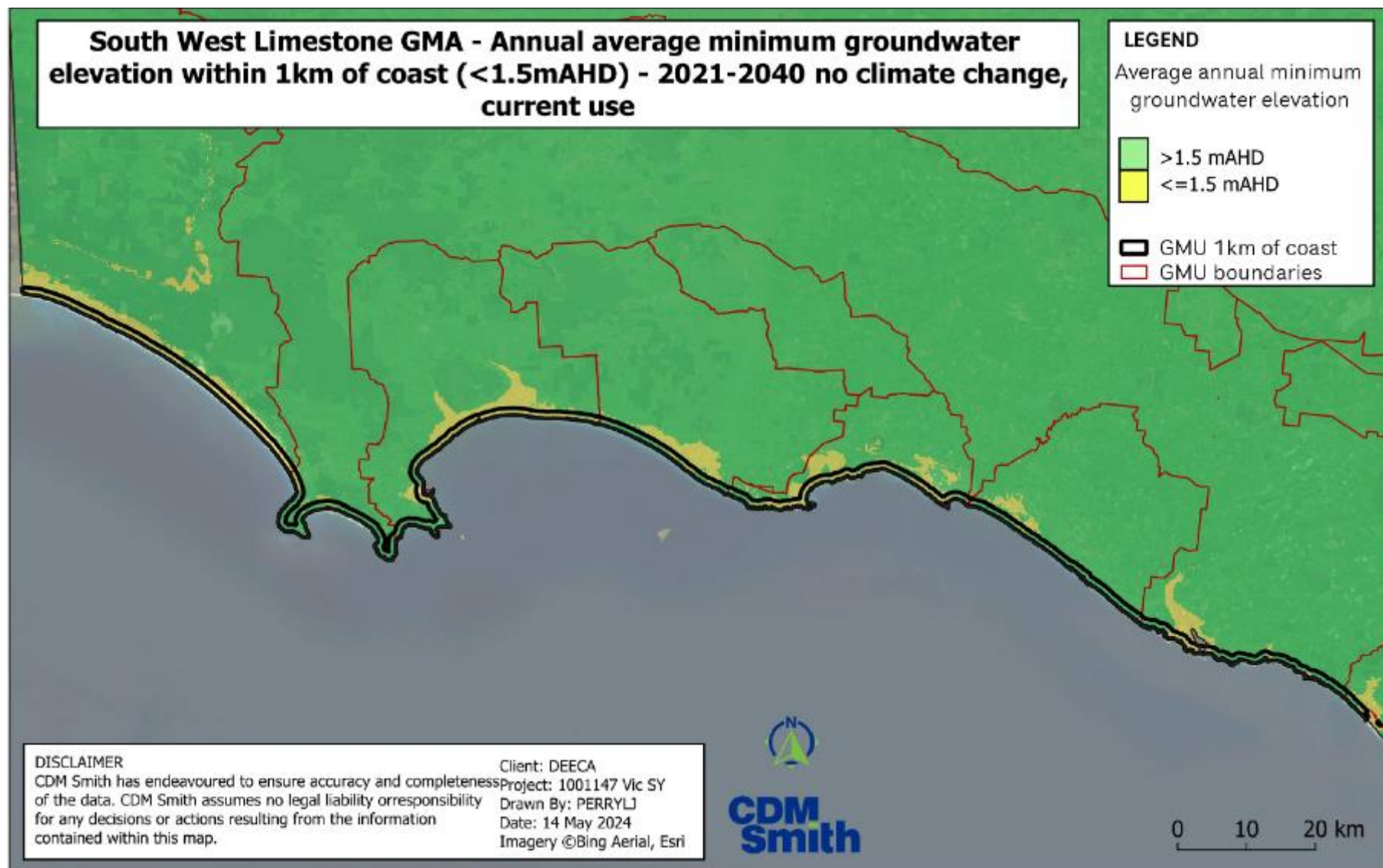


Figure PP-125 Seawater intrusion analysis area for the South West Limestone GMA - 2021-2040 no climate change and current groundwater use.

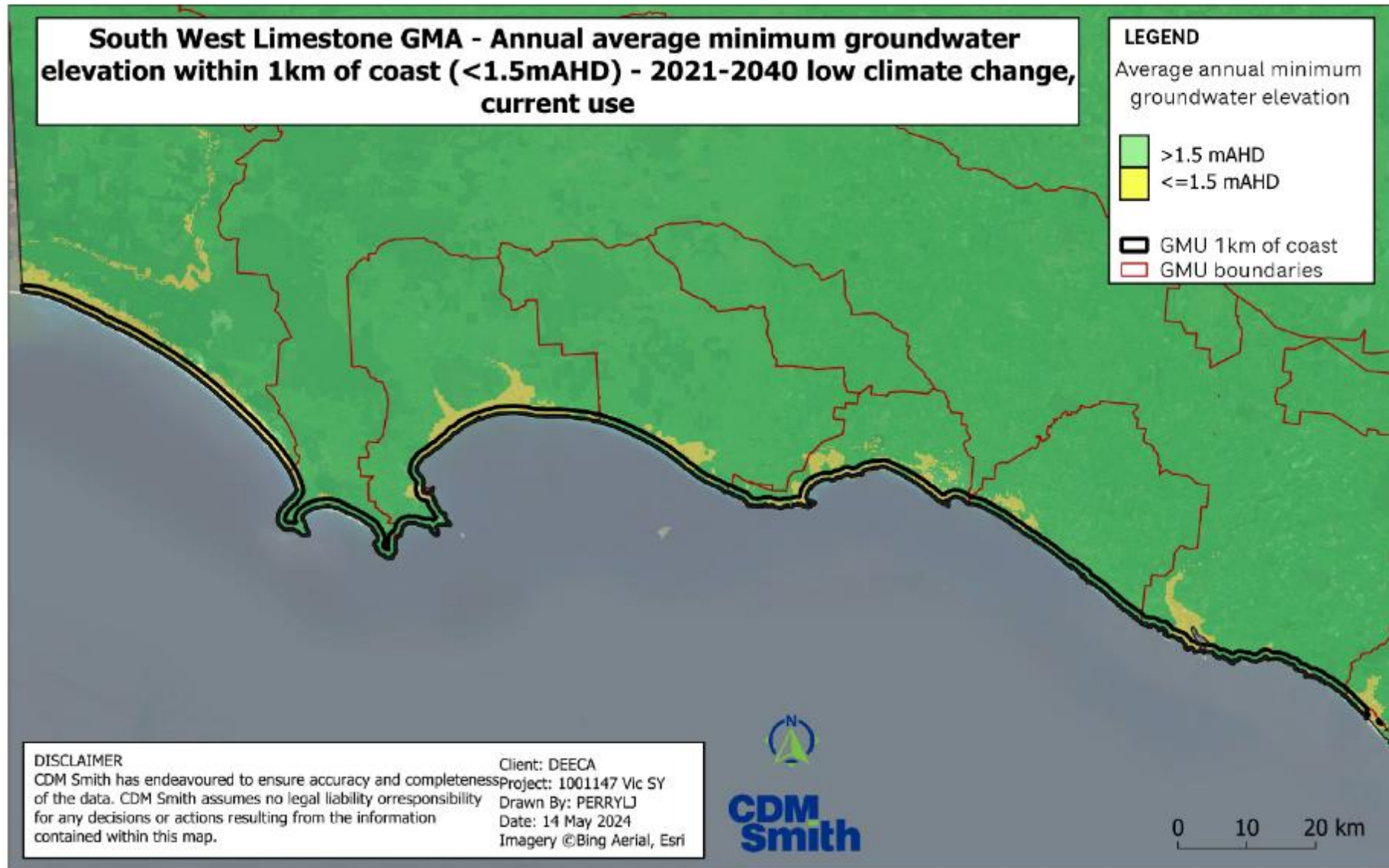


Figure PP-126 Seawater intrusion analysis area for the South West Limestone GMA - 2021-2040 low climate change and current groundwater use.



Figure PP-127 Seawater intrusion analysis area for the South West Limestone GMA - 2021-2040 medium climate change and current groundwater use.

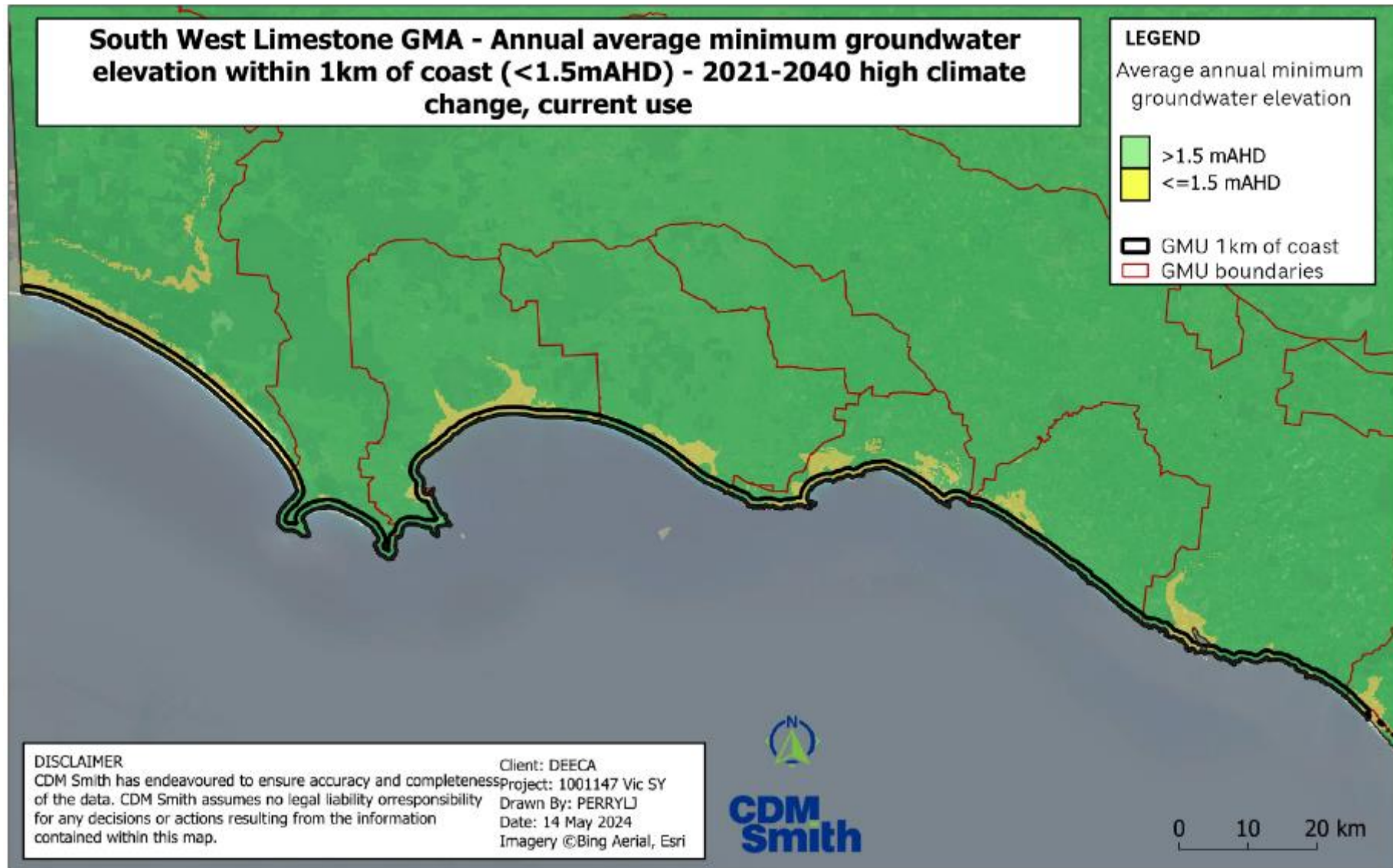


Figure PP-128 Seawater intrusion analysis area for the South West Limestone GMA - 2021-2040 high climate change and current groundwater use.

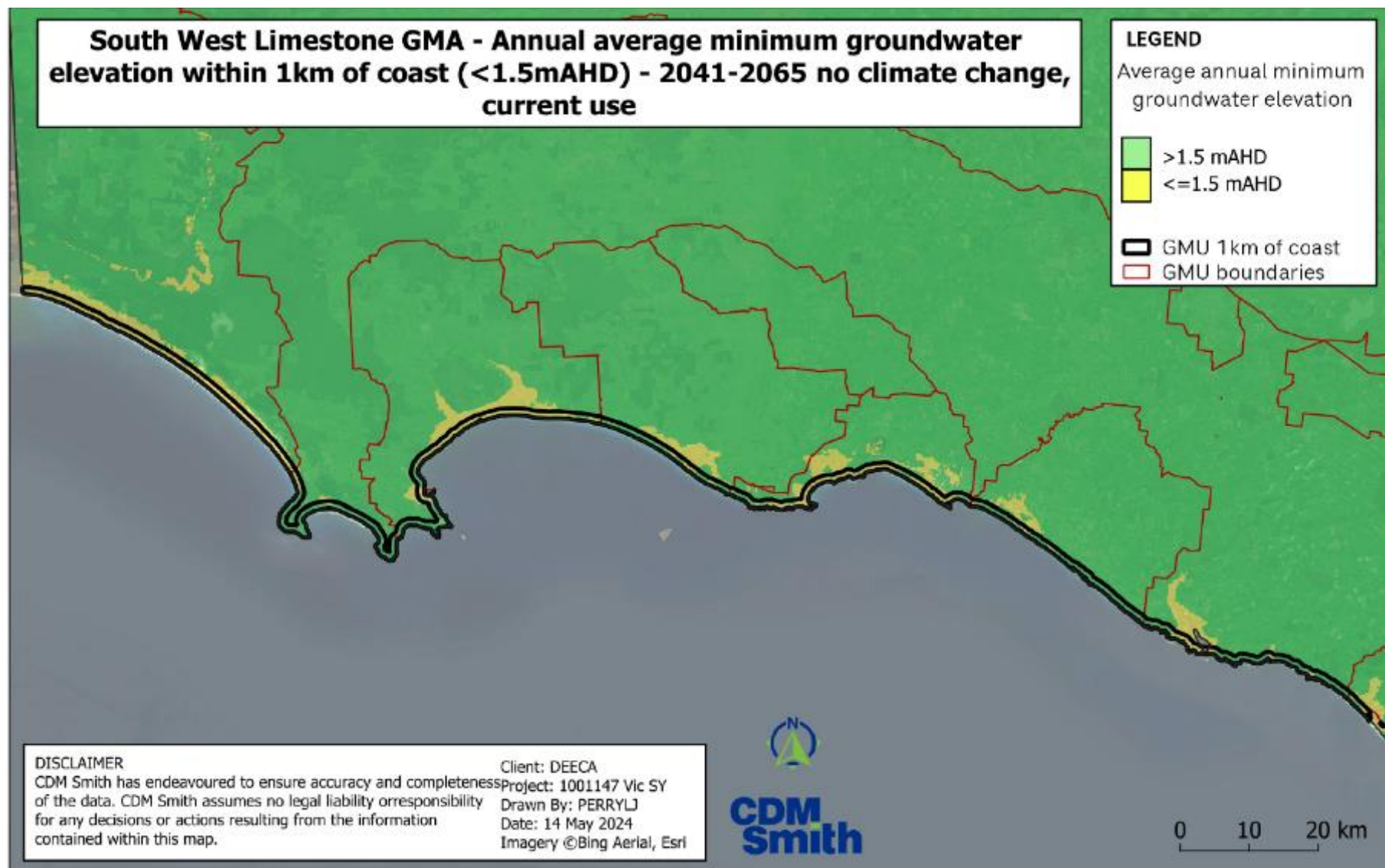


Figure PP-129 Seawater intrusion analysis area for the South West Limestone GMA - 2041-2065 no climate change and current groundwater use.

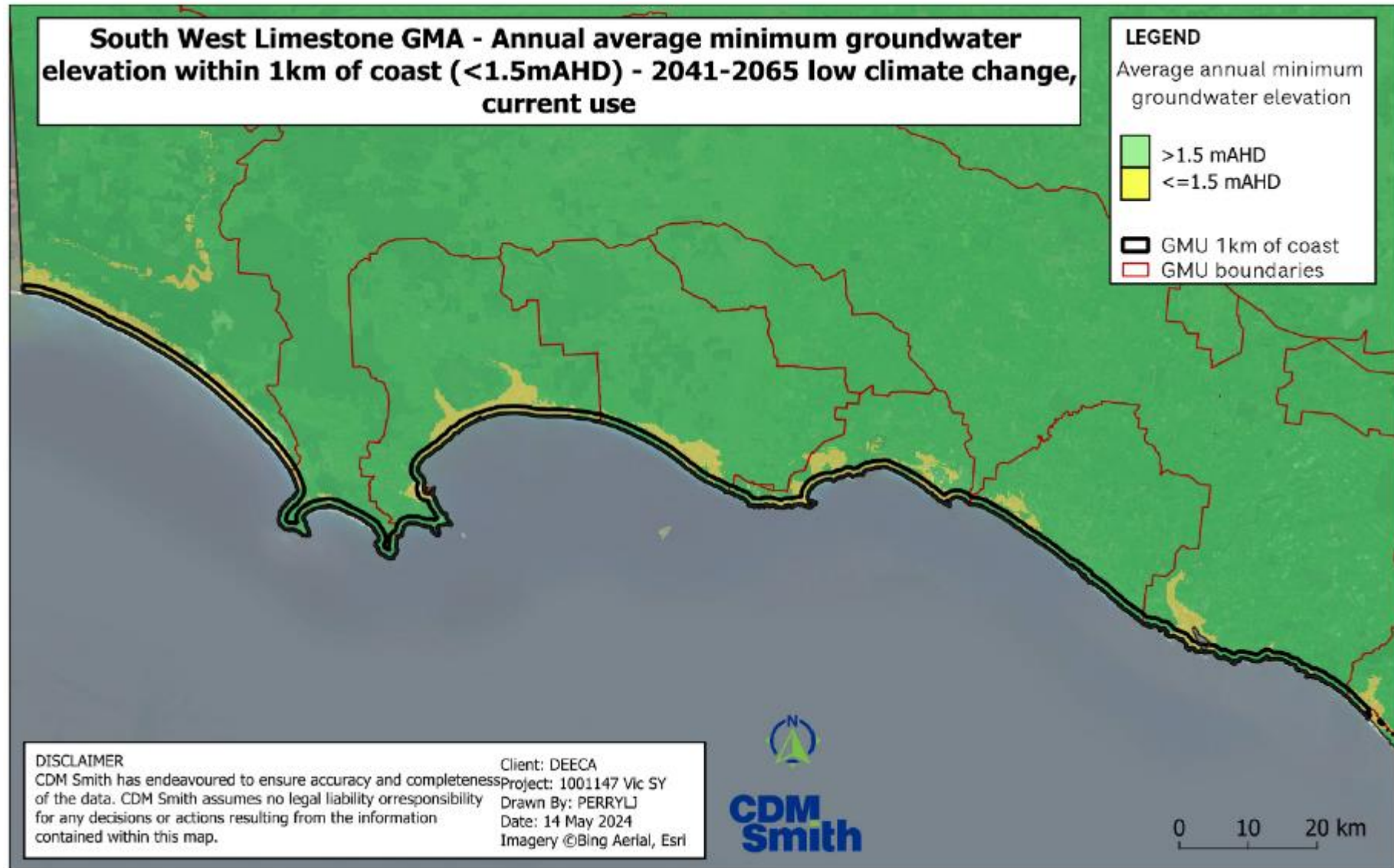


Figure PP-130 Seawater intrusion analysis area for the South West Limestone GMA – 2041-2065 low climate change and current groundwater use.

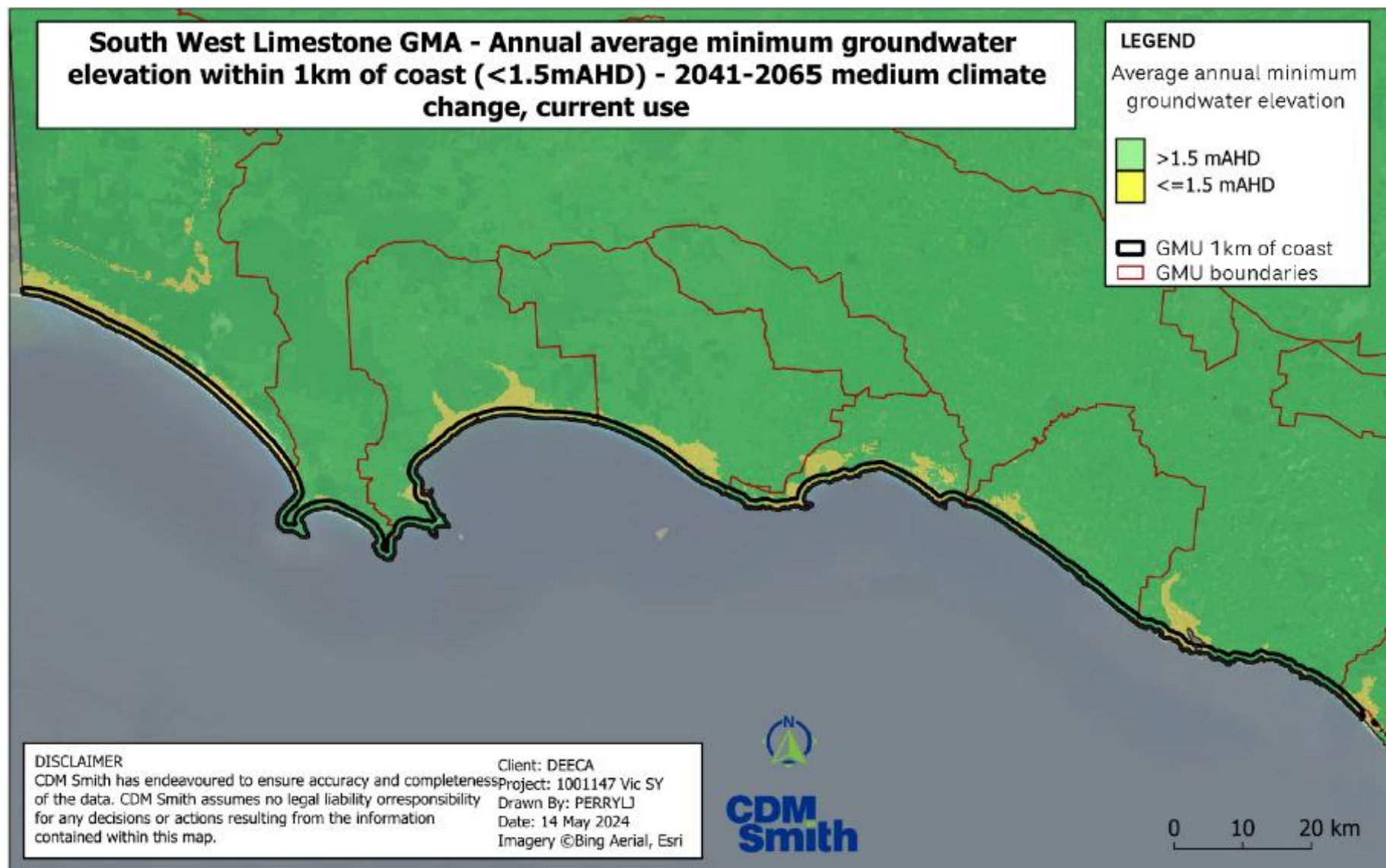


Figure PP-131 Seawater intrusion analysis area for the South West Limestone GMA – 2041-2065 medium climate change and current groundwater use.

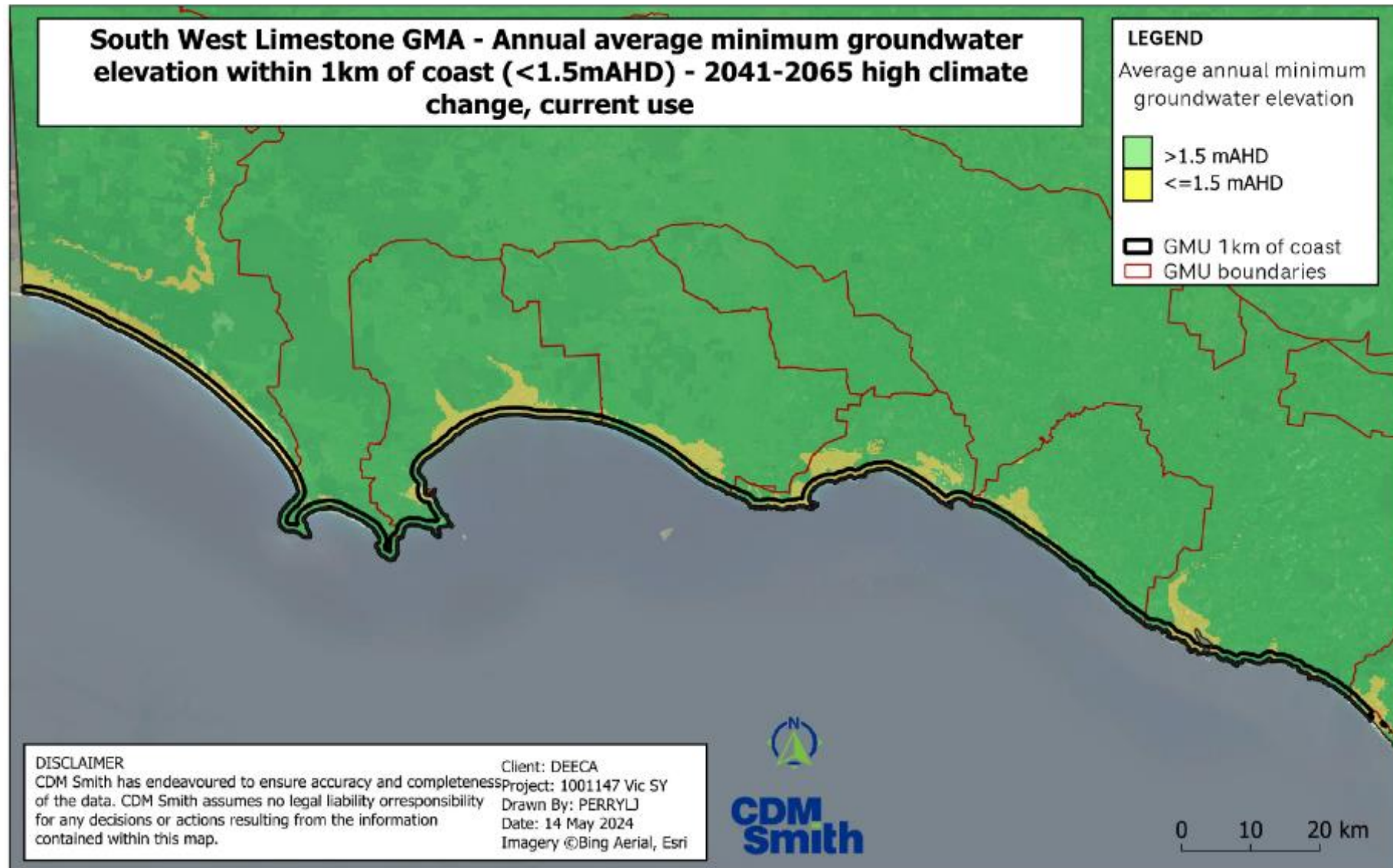


Figure PP-132 Seawater intrusion analysis area for the South West Limestone GMA - 2041-2065 high climate change and current groundwater use.

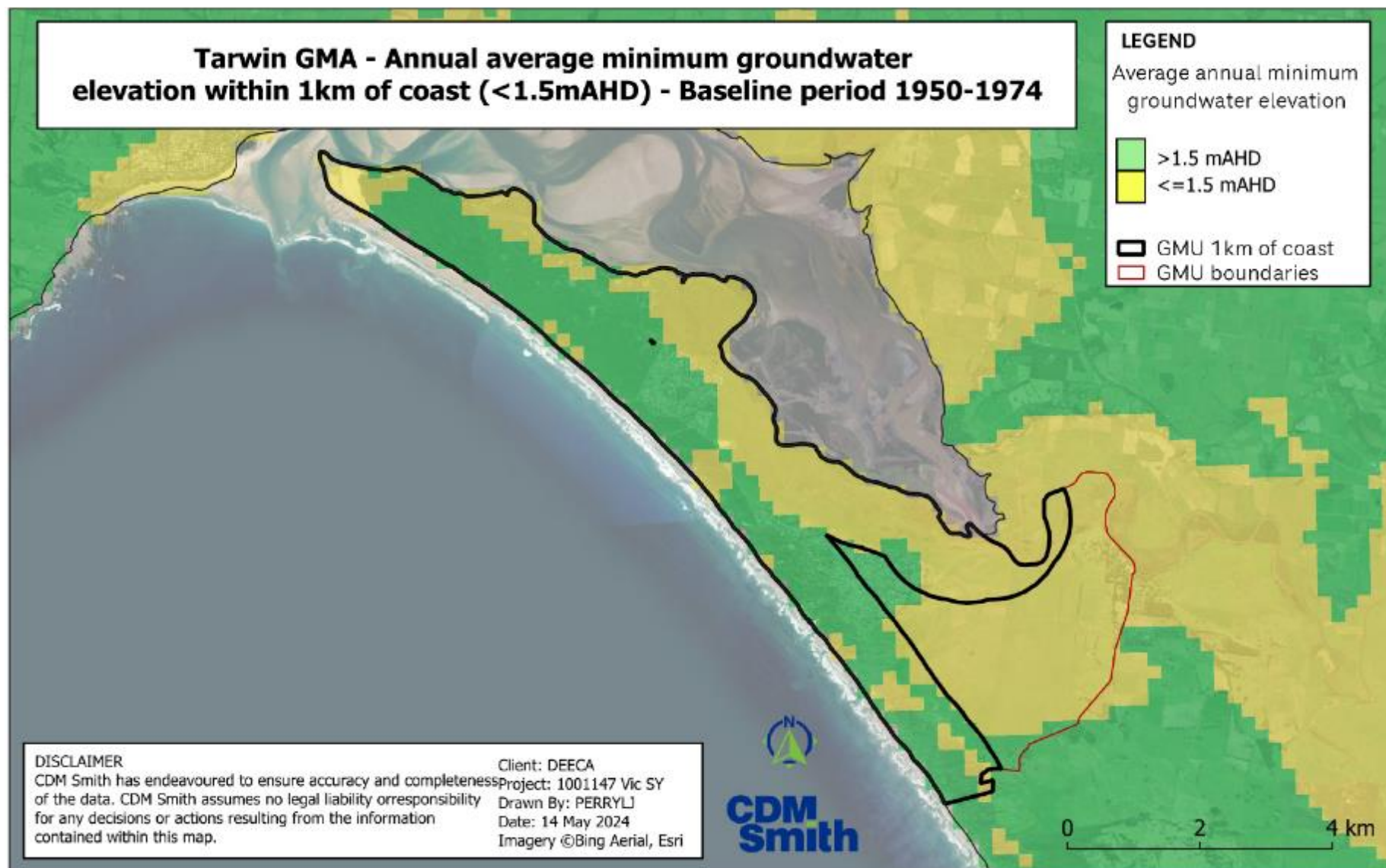


Figure PP-133 Seawater intrusion analysis area for the Tarwin GMA – Baseline 1950-1974.

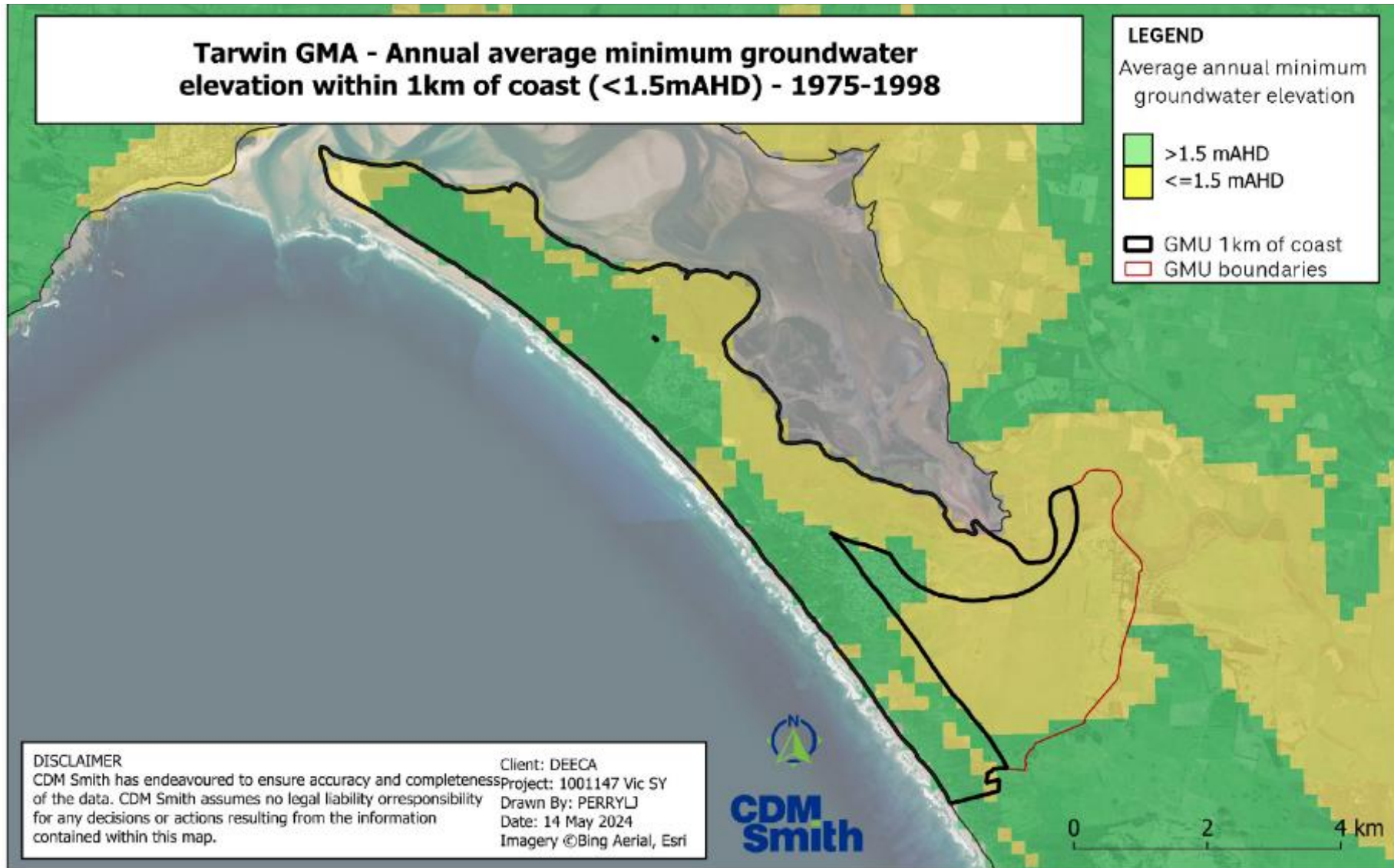


Figure PP-134 Seawater intrusion analysis area for the Tarwin GMA - 1975-1997.

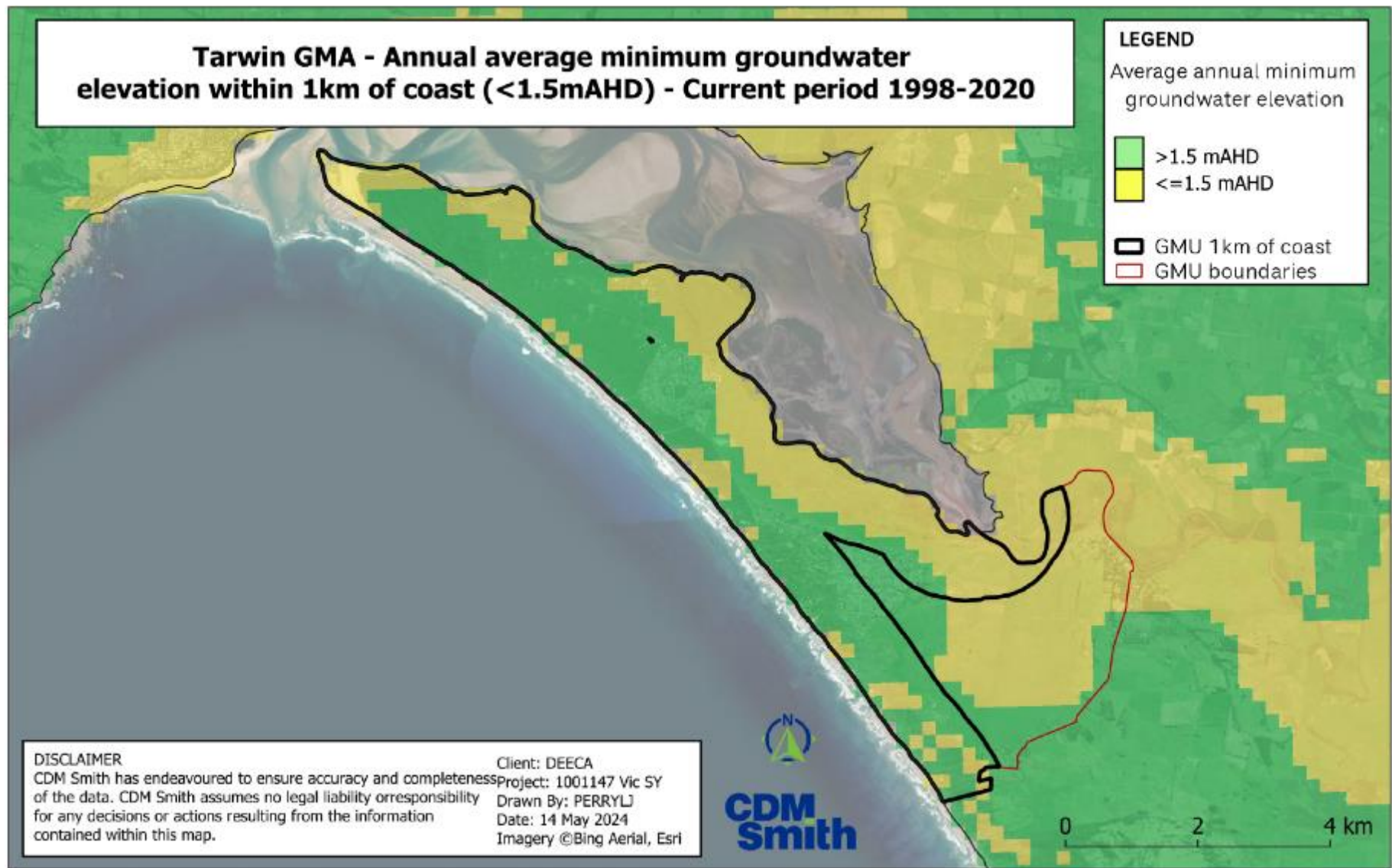


Figure PP-135 Seawater intrusion analysis area for the Tarwin GMA - 1998-2020.

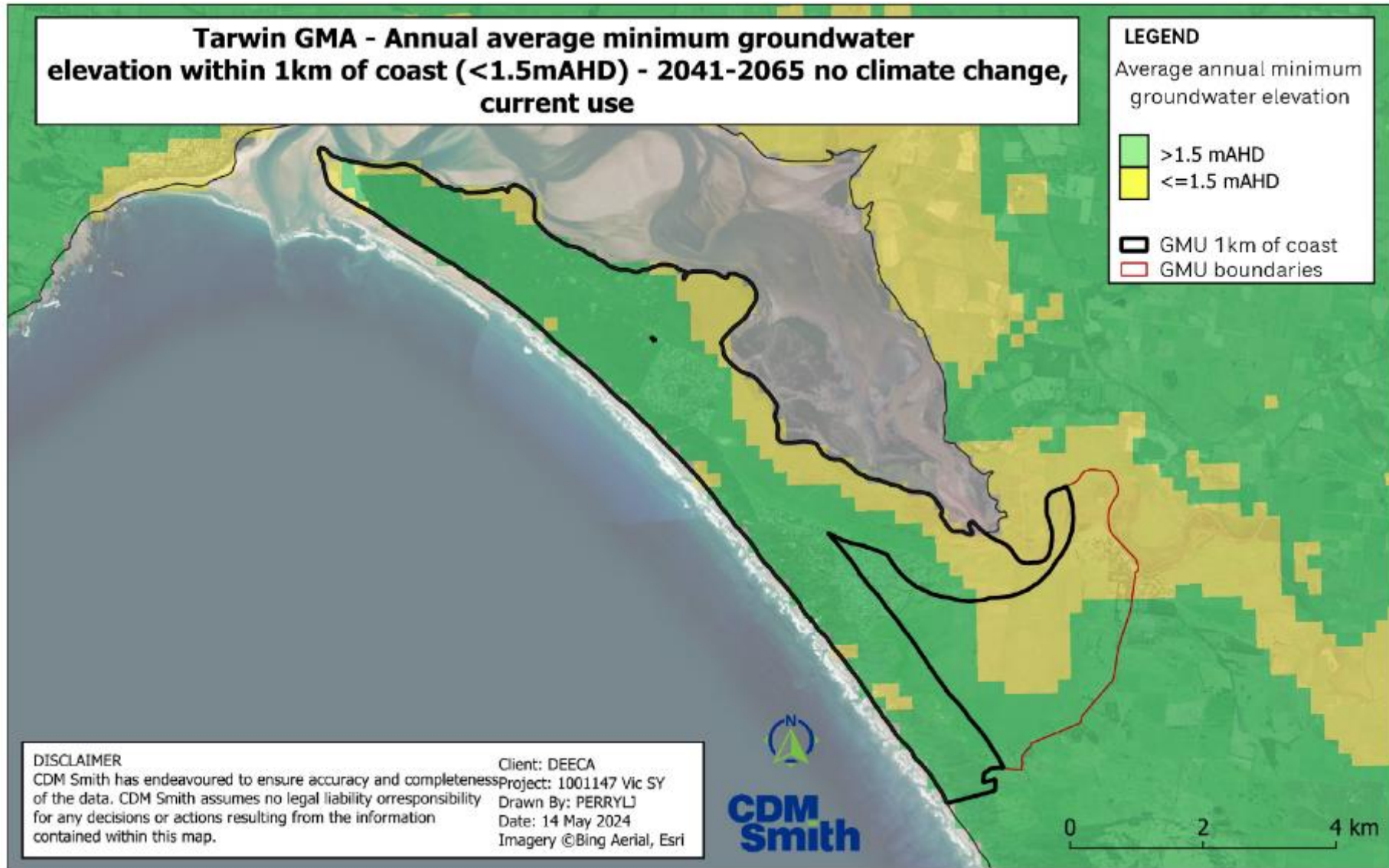


Figure PP-136 Seawater intrusion analysis area for the Tarwin GMA - 2021-2040 no climate change and current groundwater use.

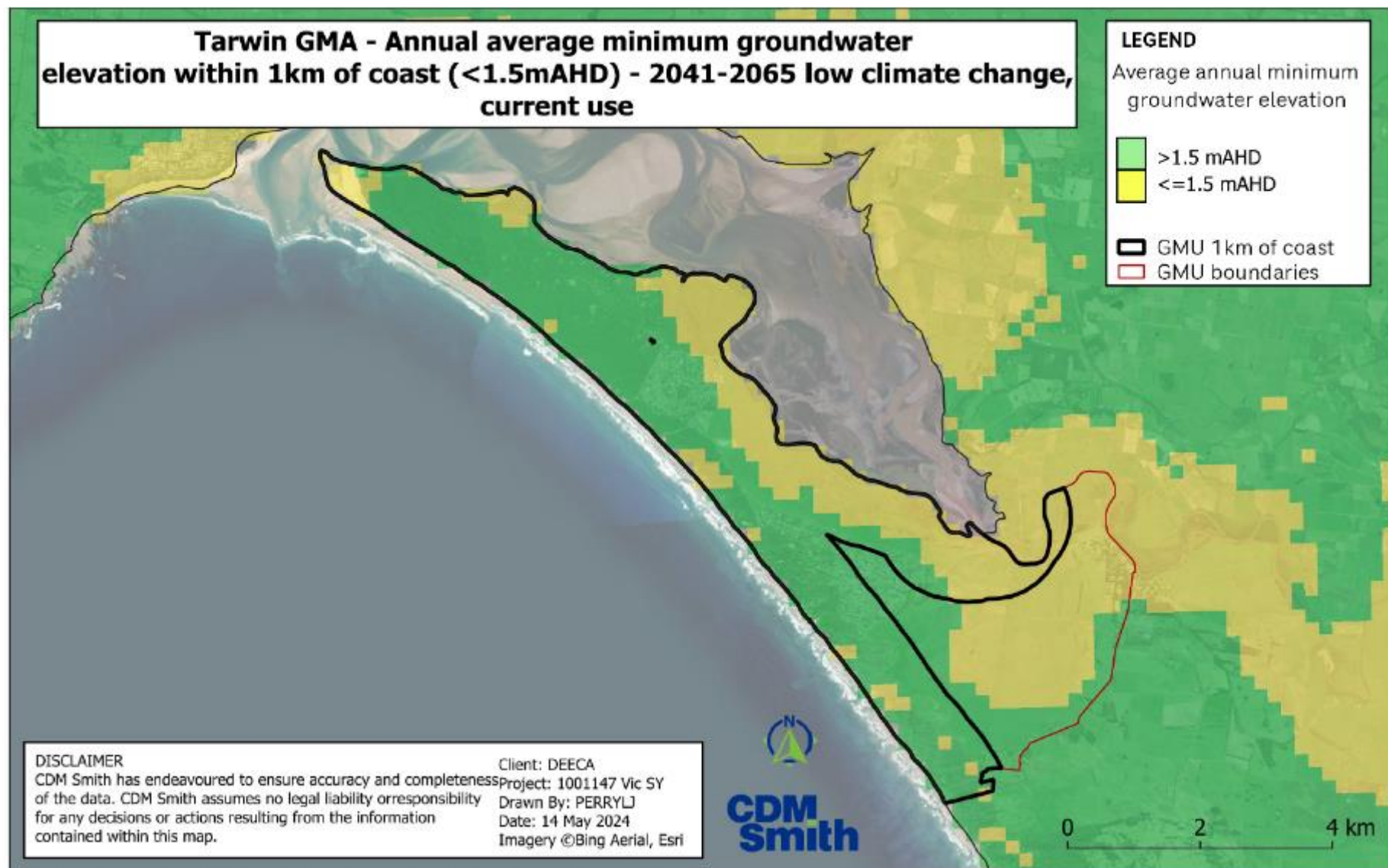


Figure PP-137 Seawater intrusion analysis area for the Tarwin GMA - 2021-2040 low climate change and current groundwater use.

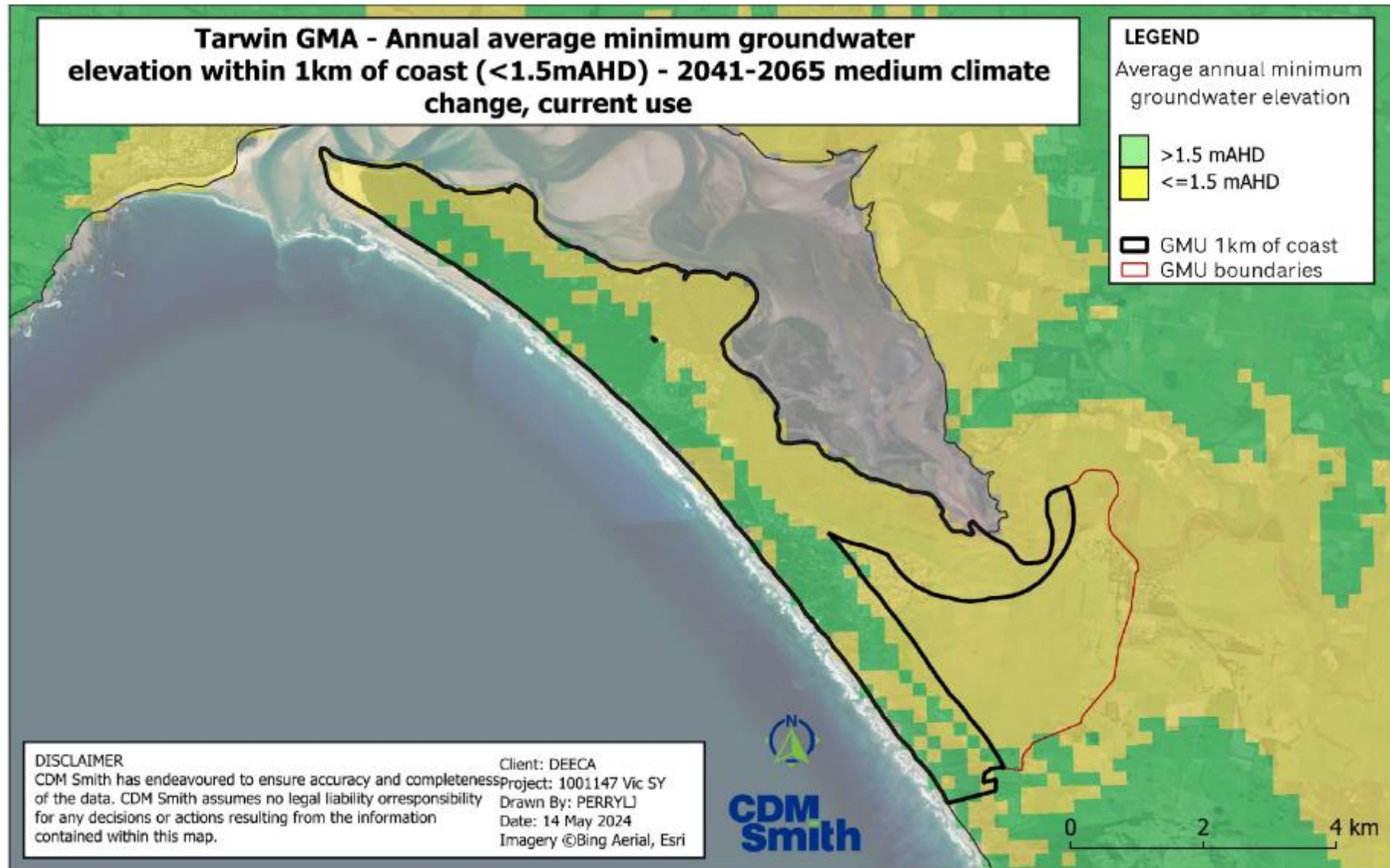


Figure PP-138 Seawater intrusion analysis area for the Tarwin GMA - 2021-2040 medium climate change and current groundwater use.

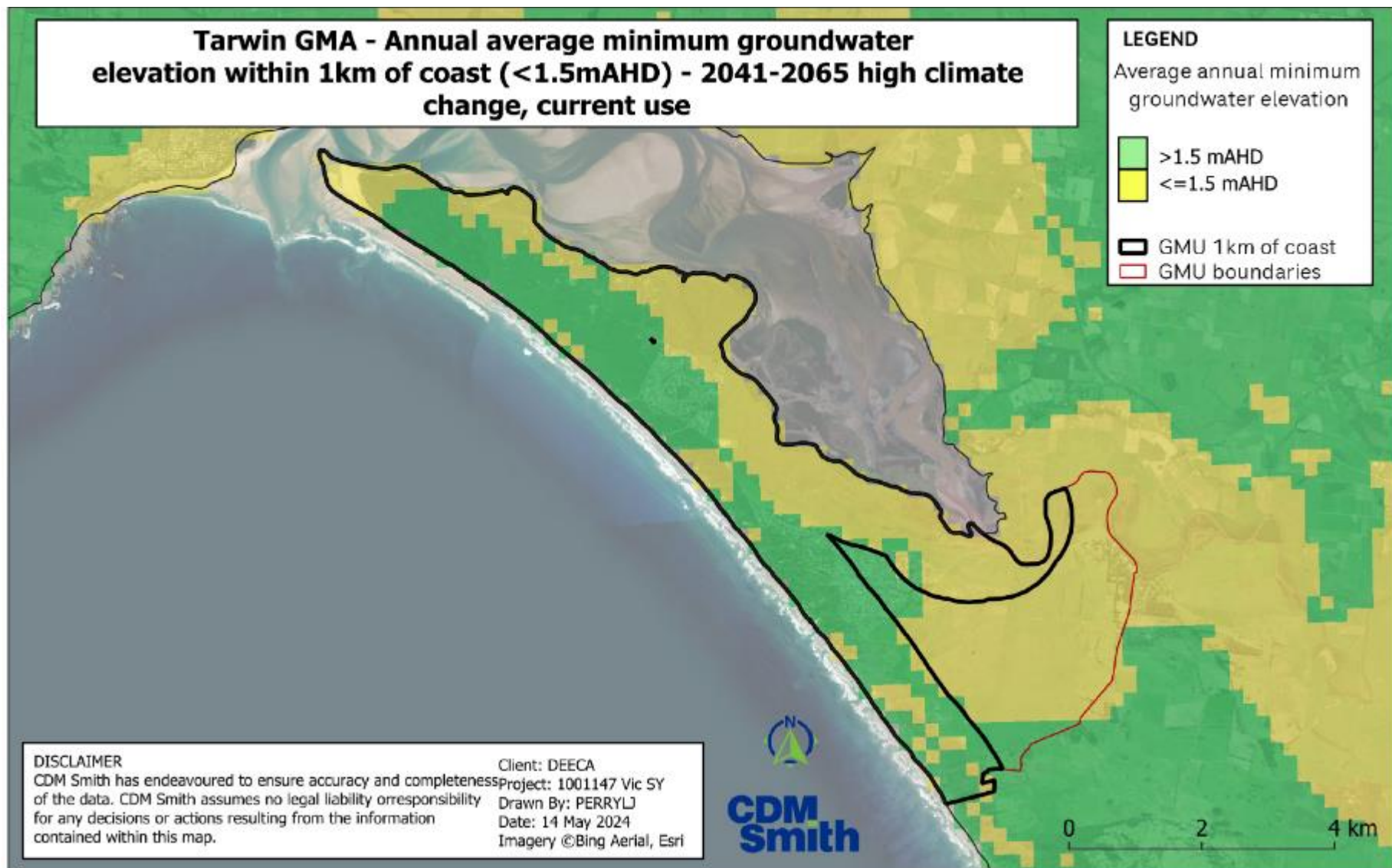


Figure PP-139 Seawater intrusion analysis area for the Tarwin GMA – 2021-2040 high climate change and current groundwater use.

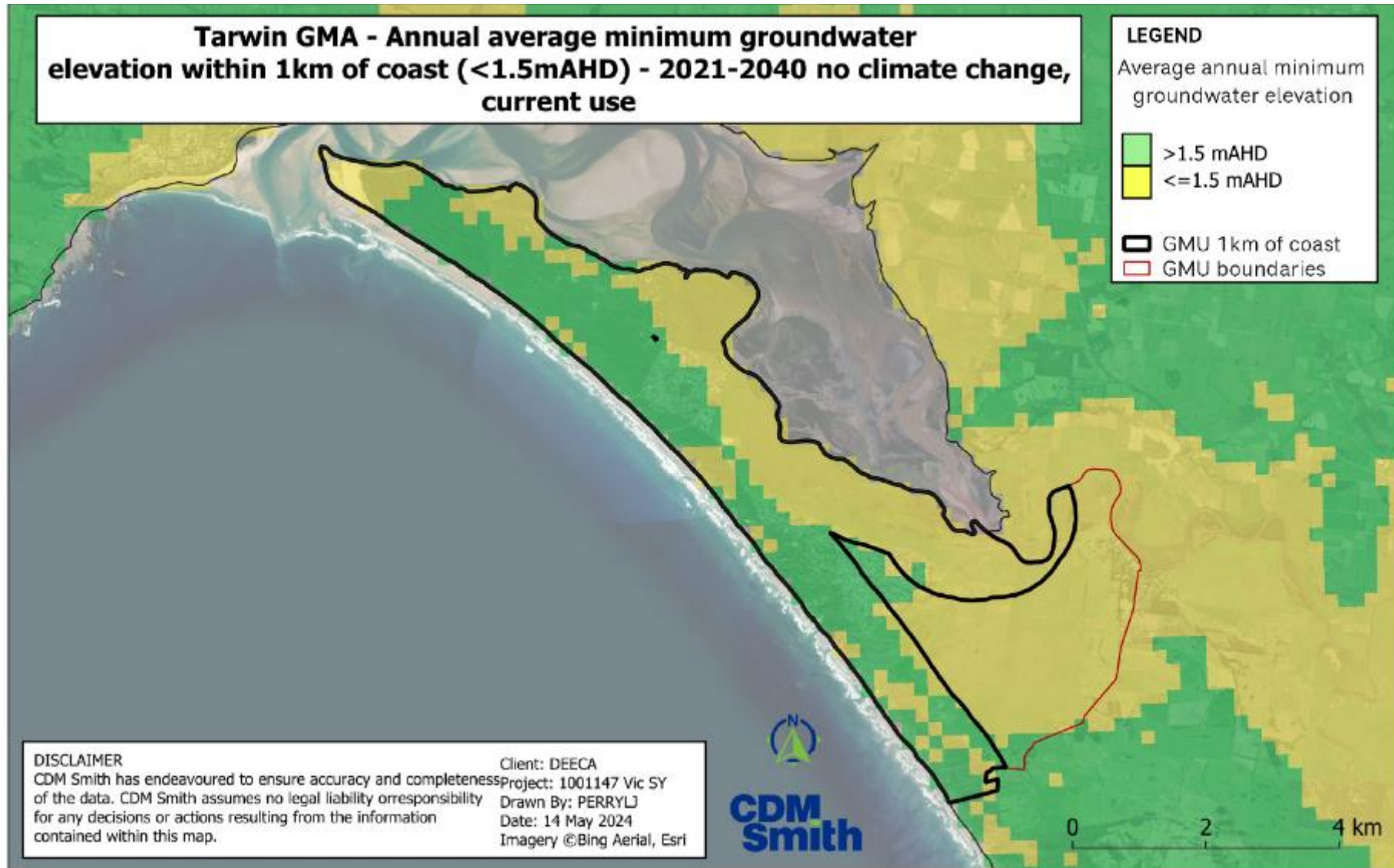


Figure PP-140 Seawater intrusion analysis area for the Tarwin GMA - 2041-2065 no climate change and current groundwater use.

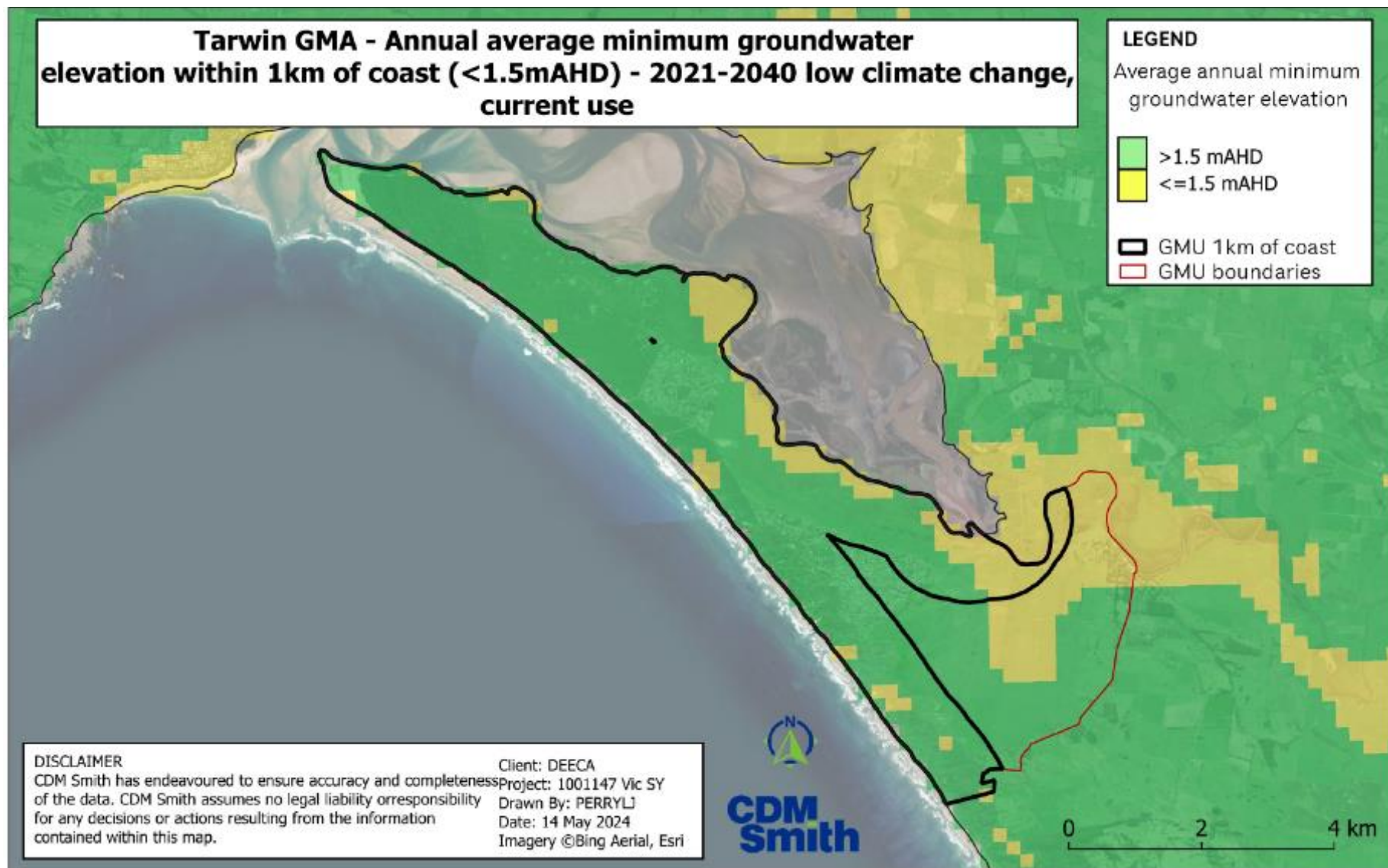


Figure PP-141 Seawater intrusion analysis area for the Tarwin GMA - 2041-2065 low climate change and current groundwater use.

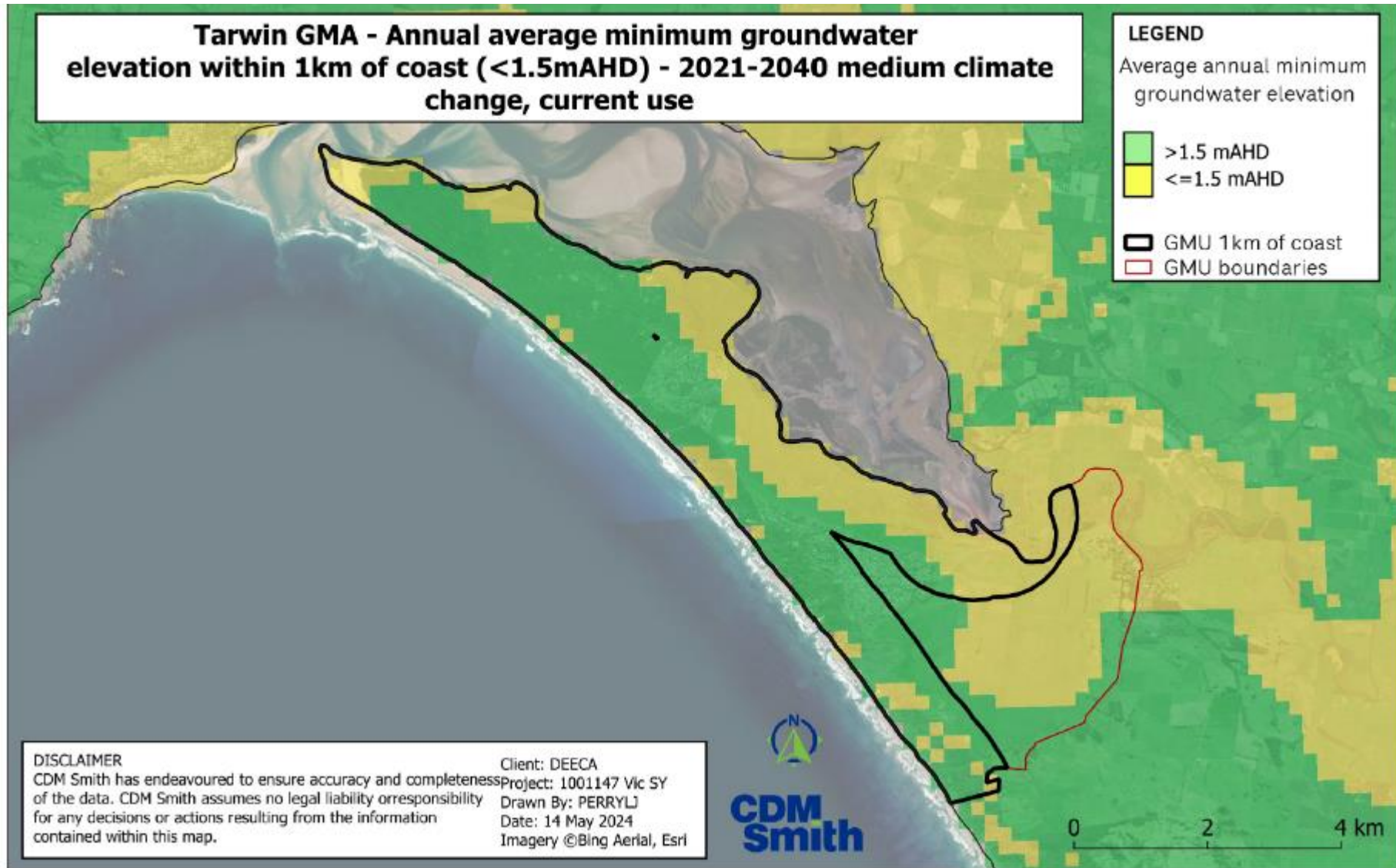


Figure PP-142 Seawater intrusion analysis area for the Tarwin GMA – 2041-2065 medium climate change and current groundwater use.

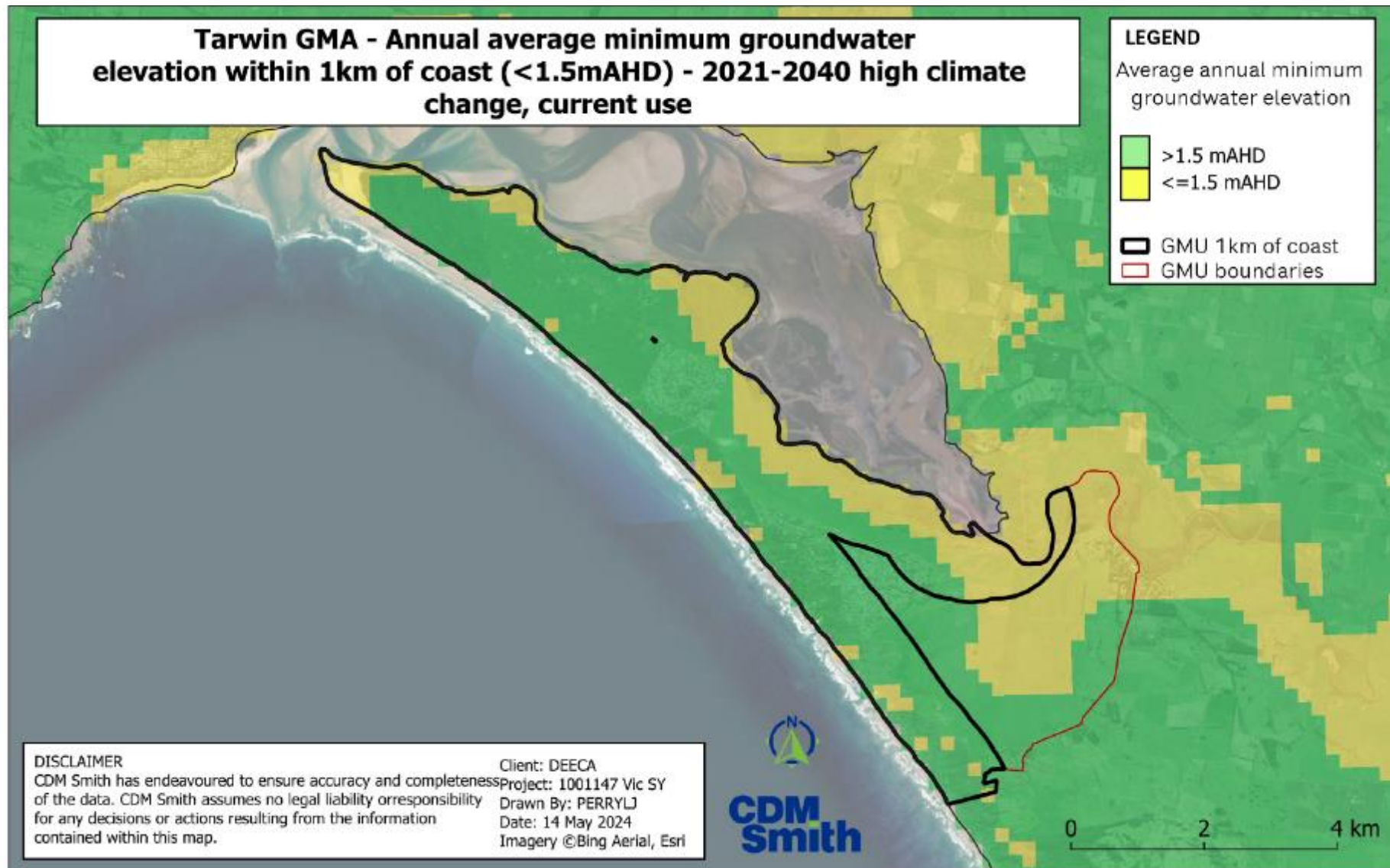


Figure PP-143 Seawater intrusion analysis area for the Tarwin GMA - 2041-2065 high climate change and current groundwater use.

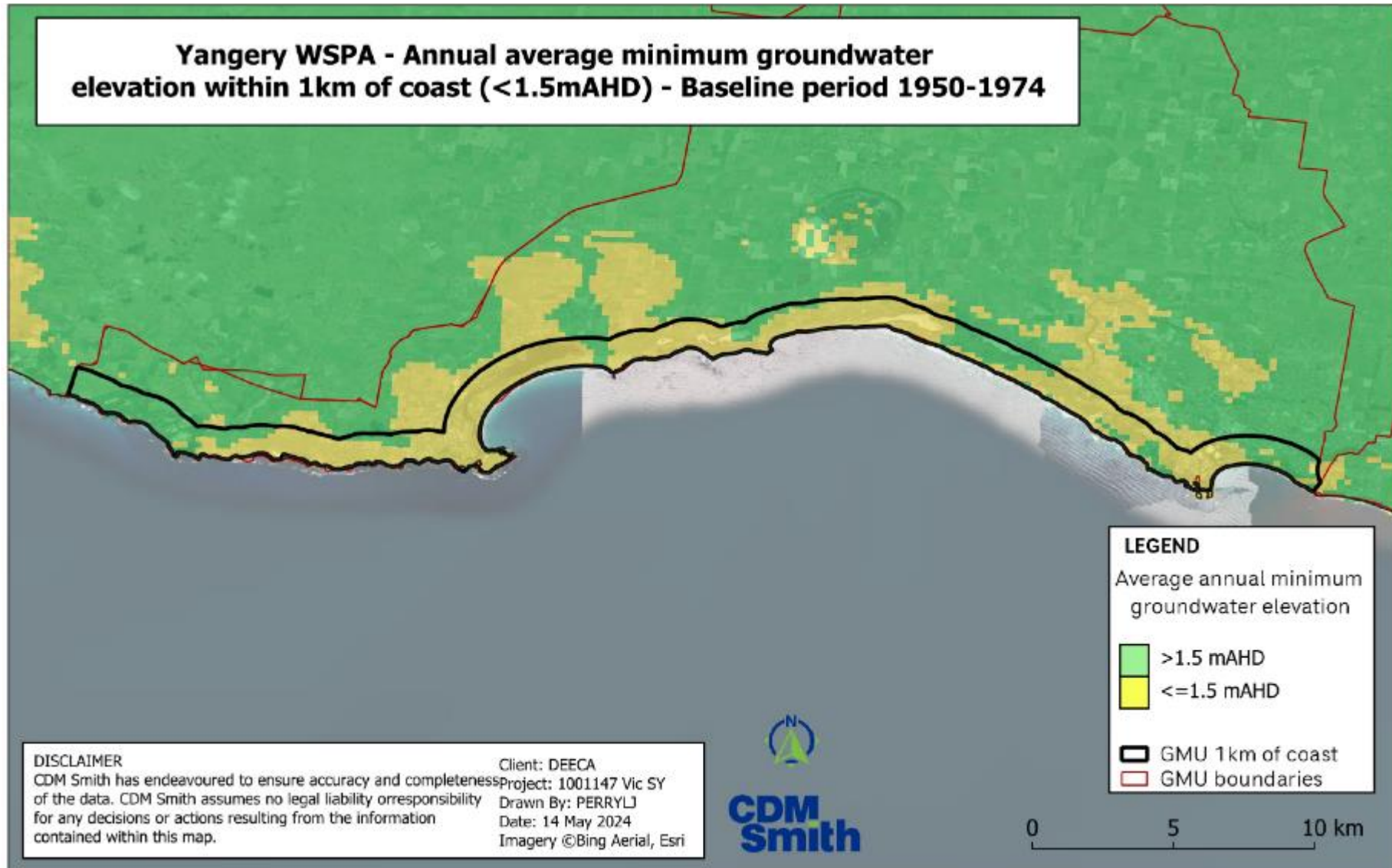


Figure PP-144 Seawater intrusion analysis area for the Yangery GMA - Baseline 1950-1974.

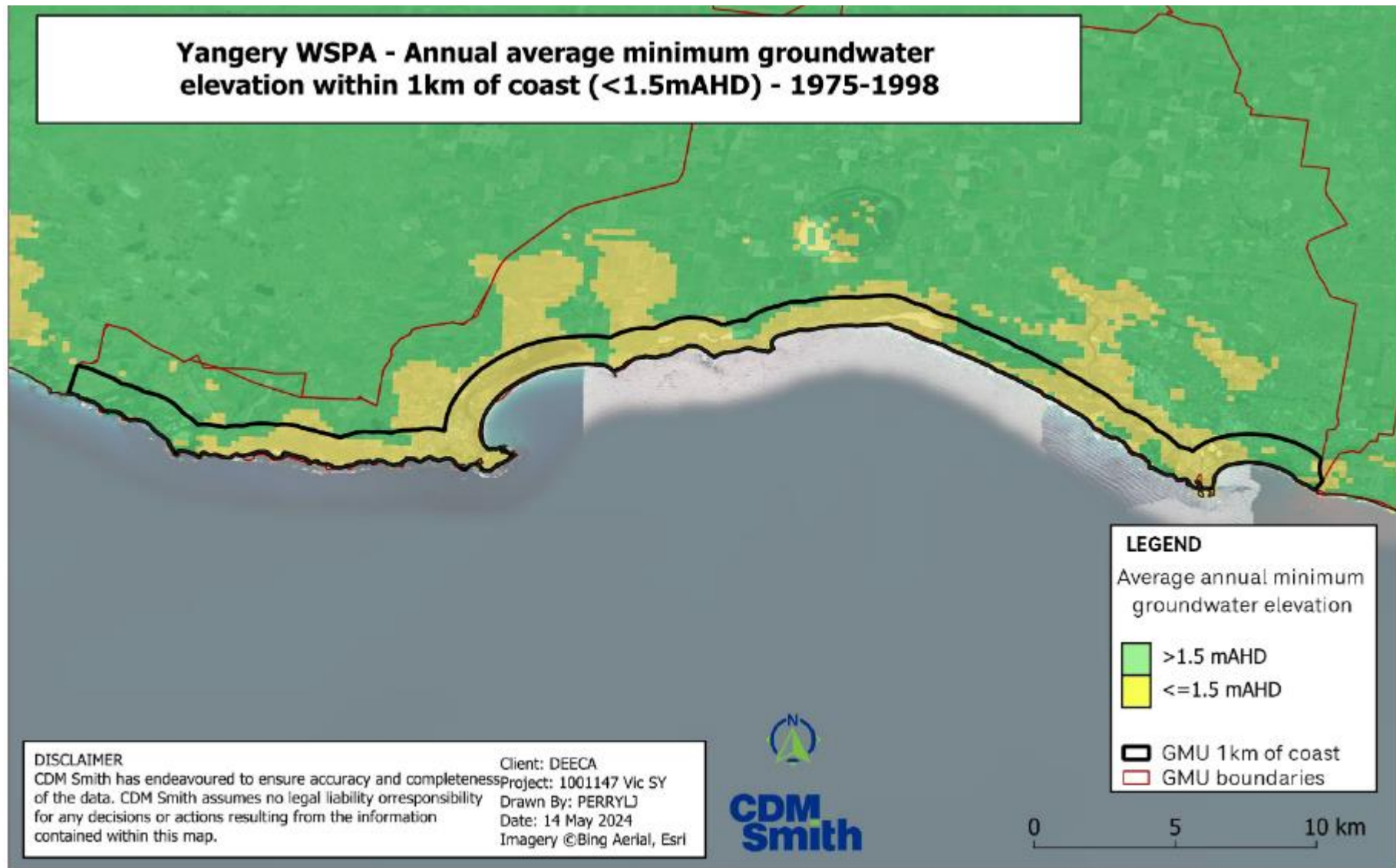


Figure PP-145 Seawater intrusion analysis area for the Yangery GMA - 1975-1997.

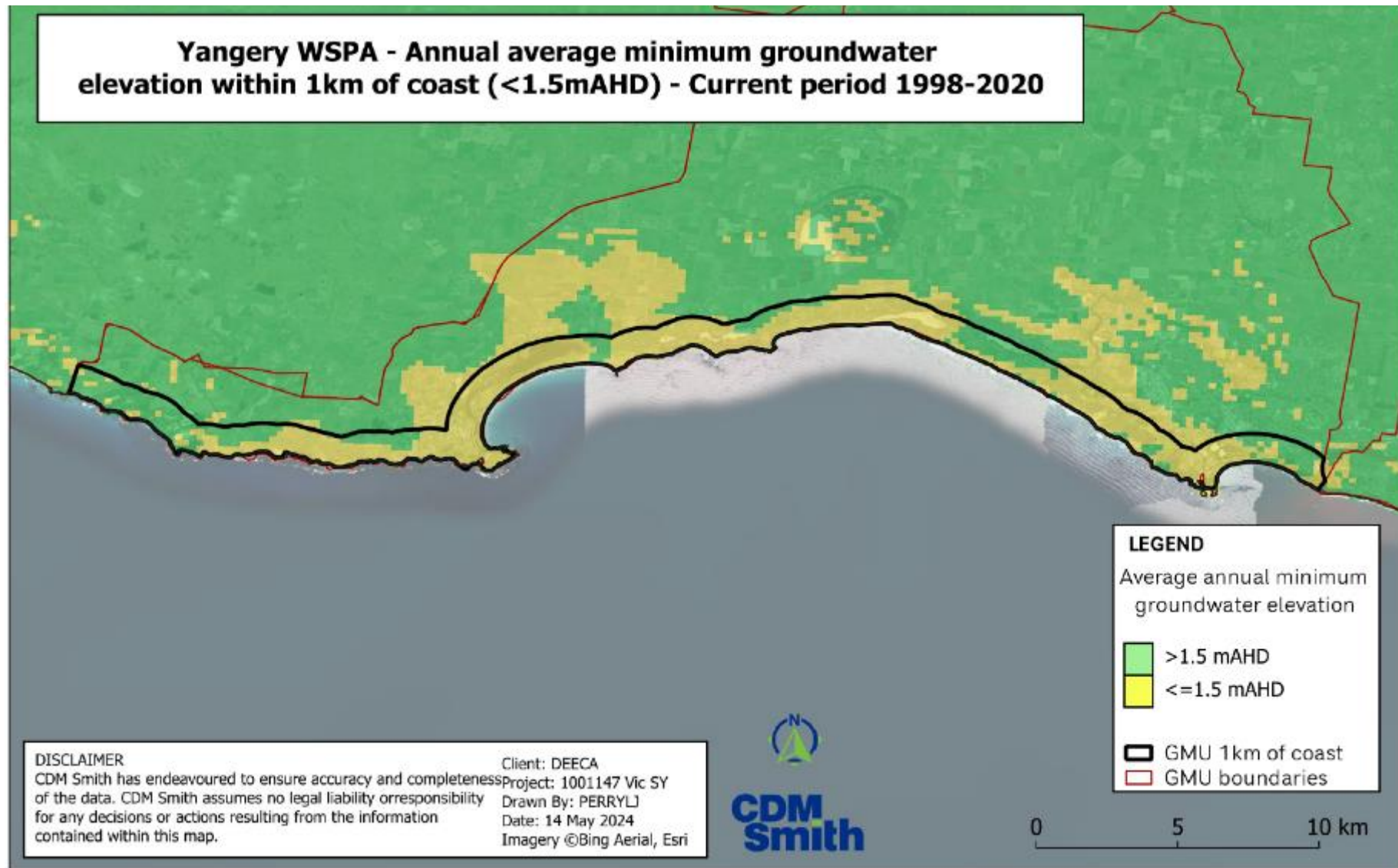


Figure PP-146 Seawater intrusion analysis area for the Yangery GMA - 1998-2020.

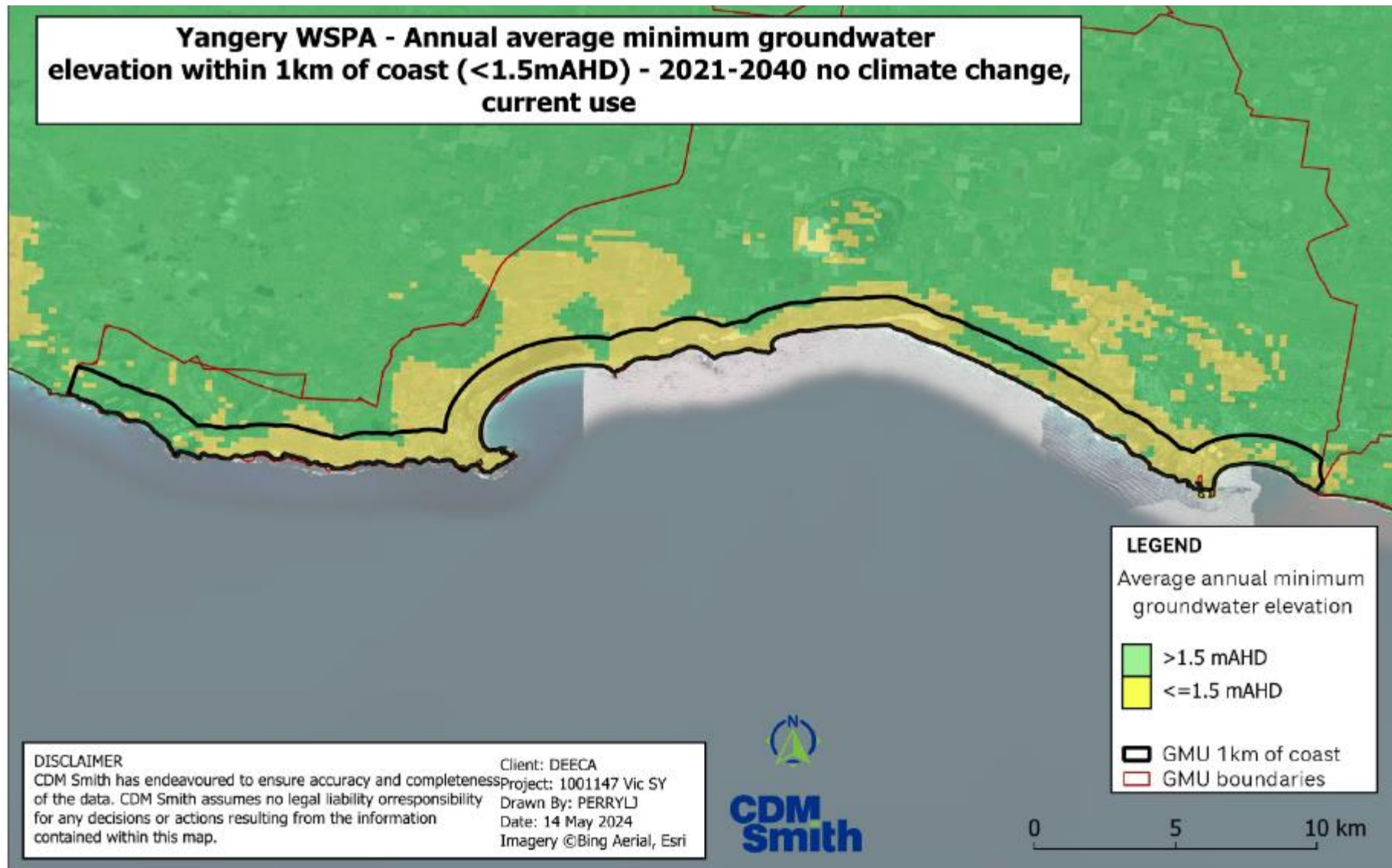


Figure PP-147 Seawater intrusion analysis area for the Yangery GMA - 2021-2040 no climate change and current groundwater use.

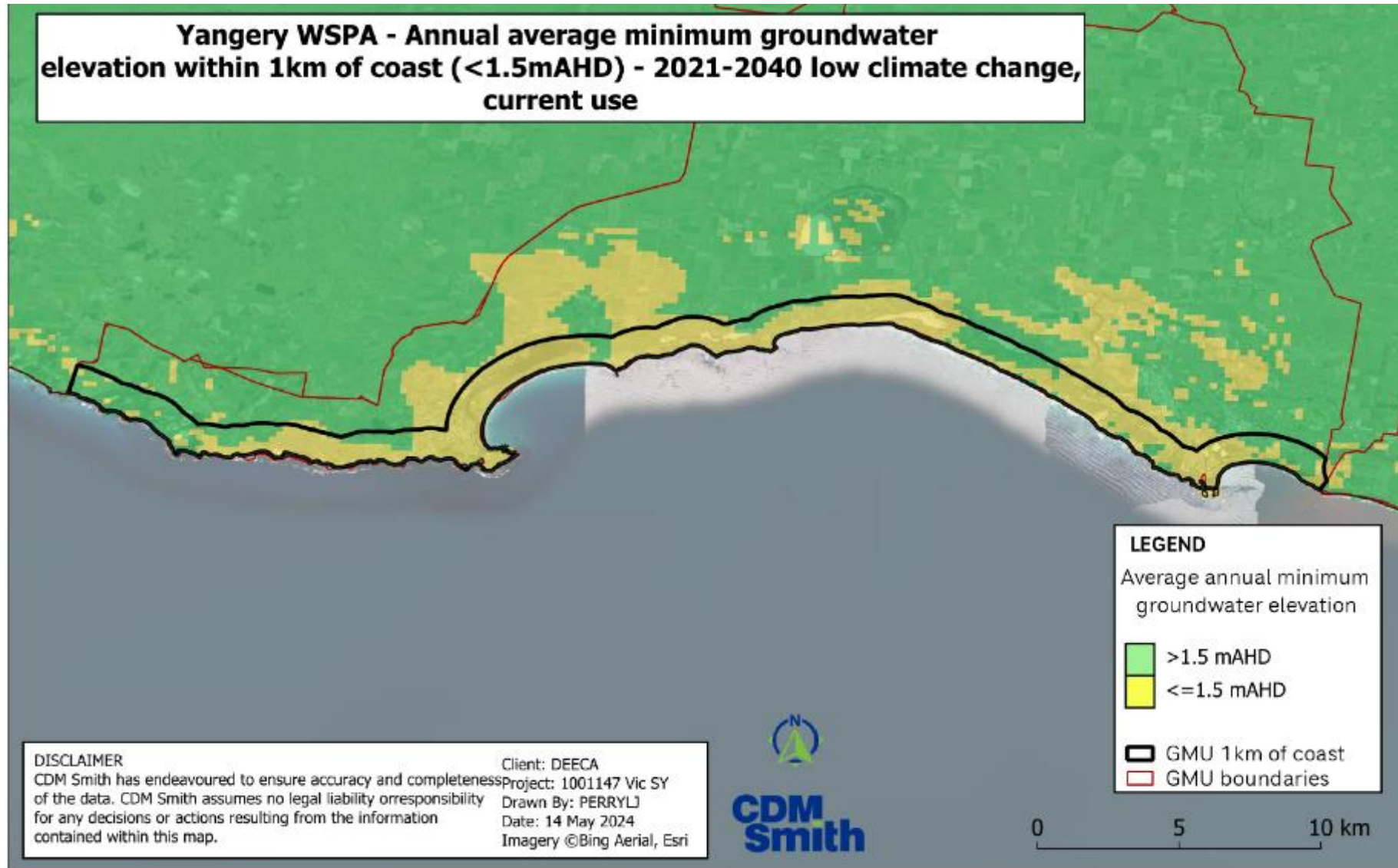


Figure PP-148 Seawater intrusion analysis area for the Yangery GMA - 2021-2040 low climate change and current groundwater use.

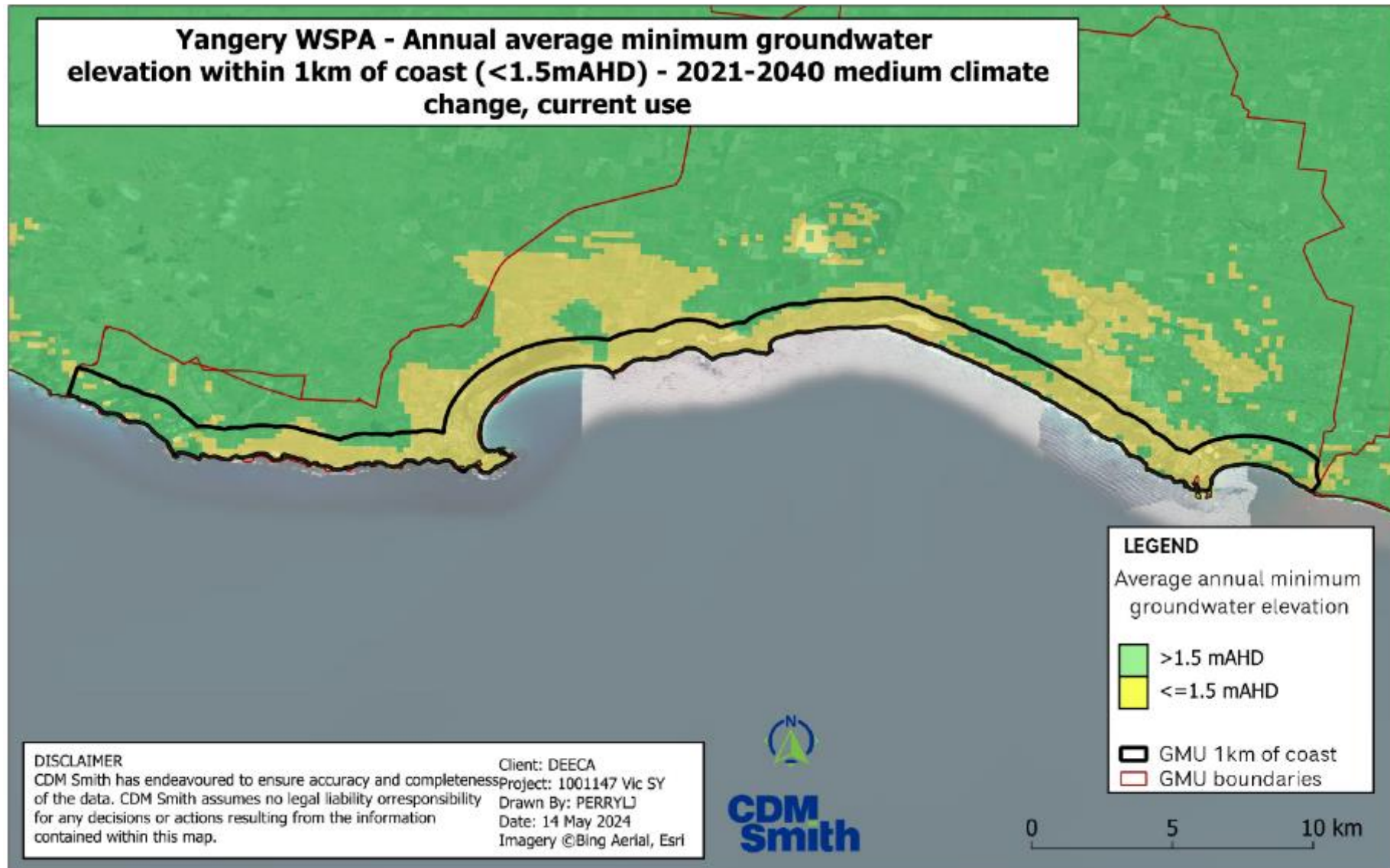


Figure PP-149 Seawater intrusion analysis area for the Yangery GMA - 2021-2040 medium climate change and current groundwater use.

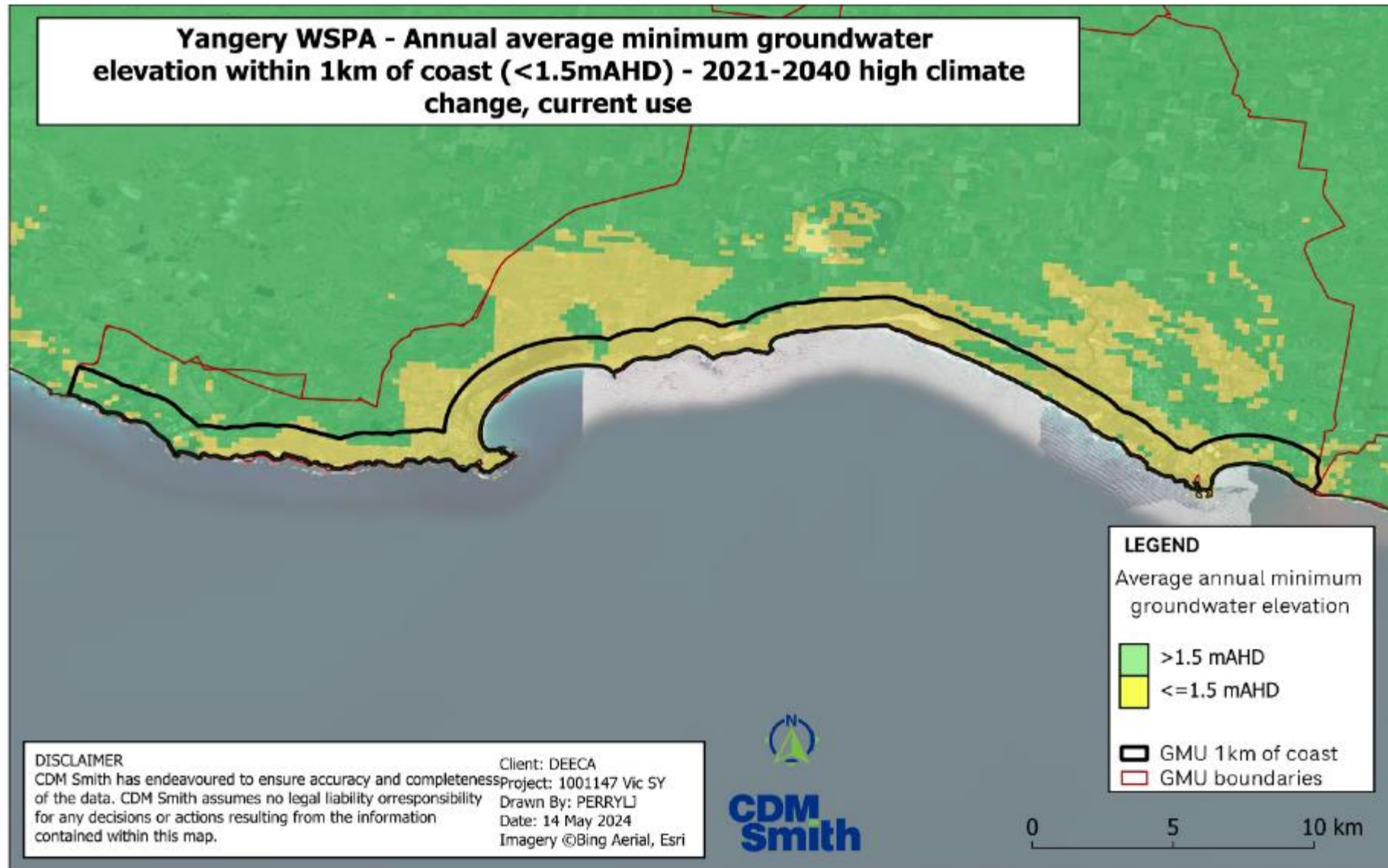


Figure PP-150 Seawater intrusion analysis area for the Yangery GMA - 2021-2040 high climate change and current groundwater use.

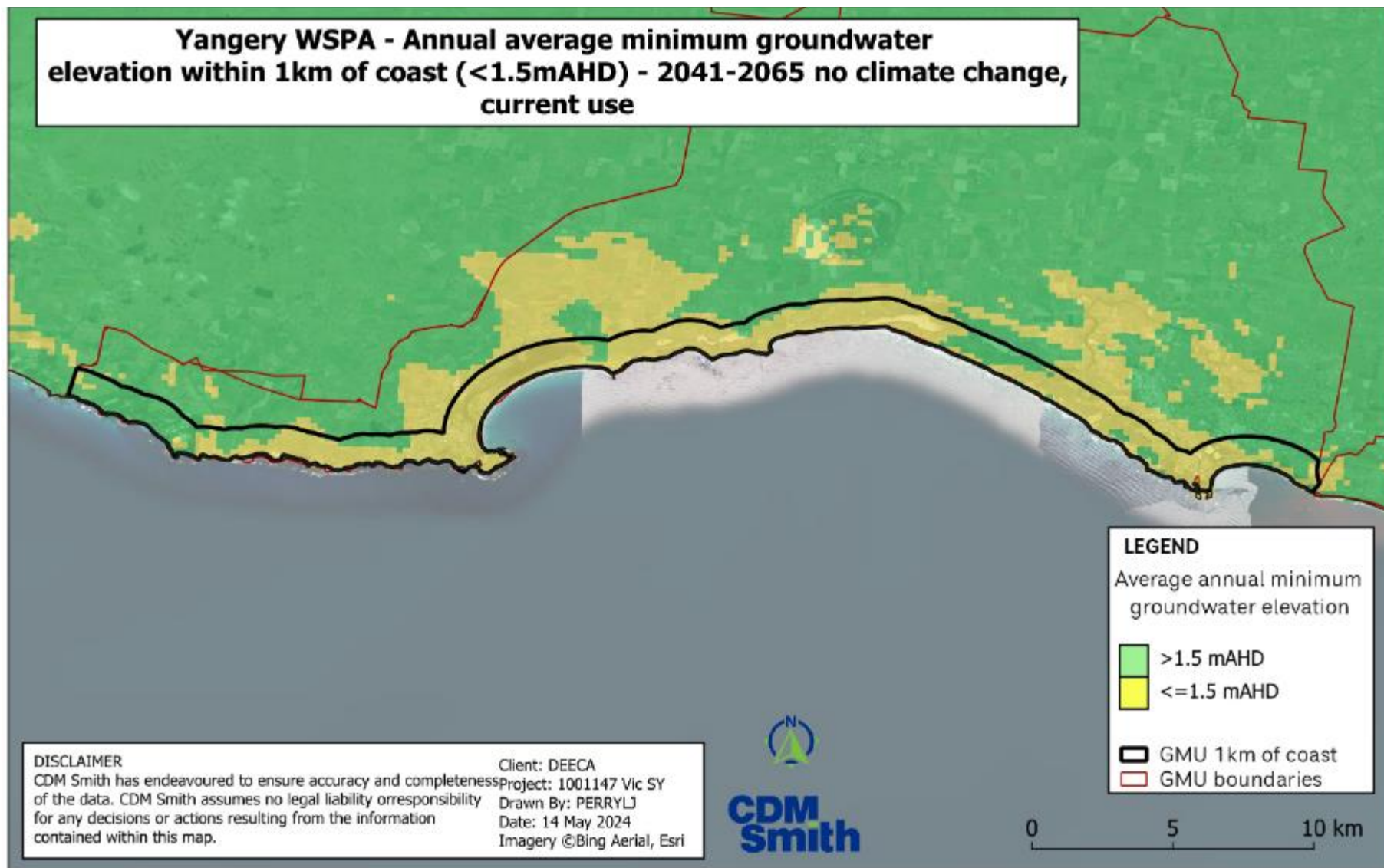


Figure PP-151 Seawater intrusion analysis area for the Yangery GMA - 2041-2065 no climate change and current groundwater use.

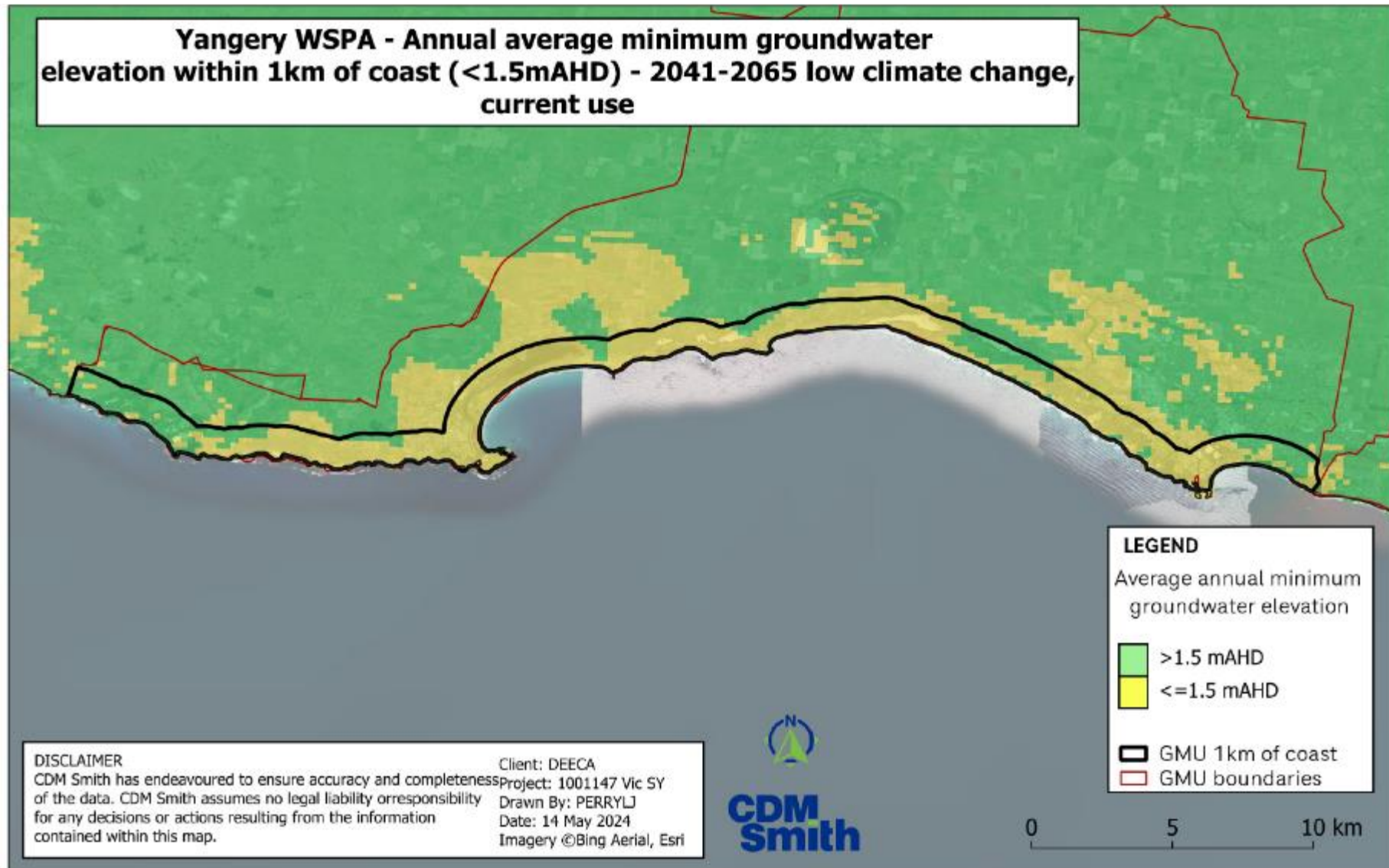


Figure PP-152 Seawater intrusion analysis area for the Yangery GMA - 2041-2065 low climate change and current groundwater use.

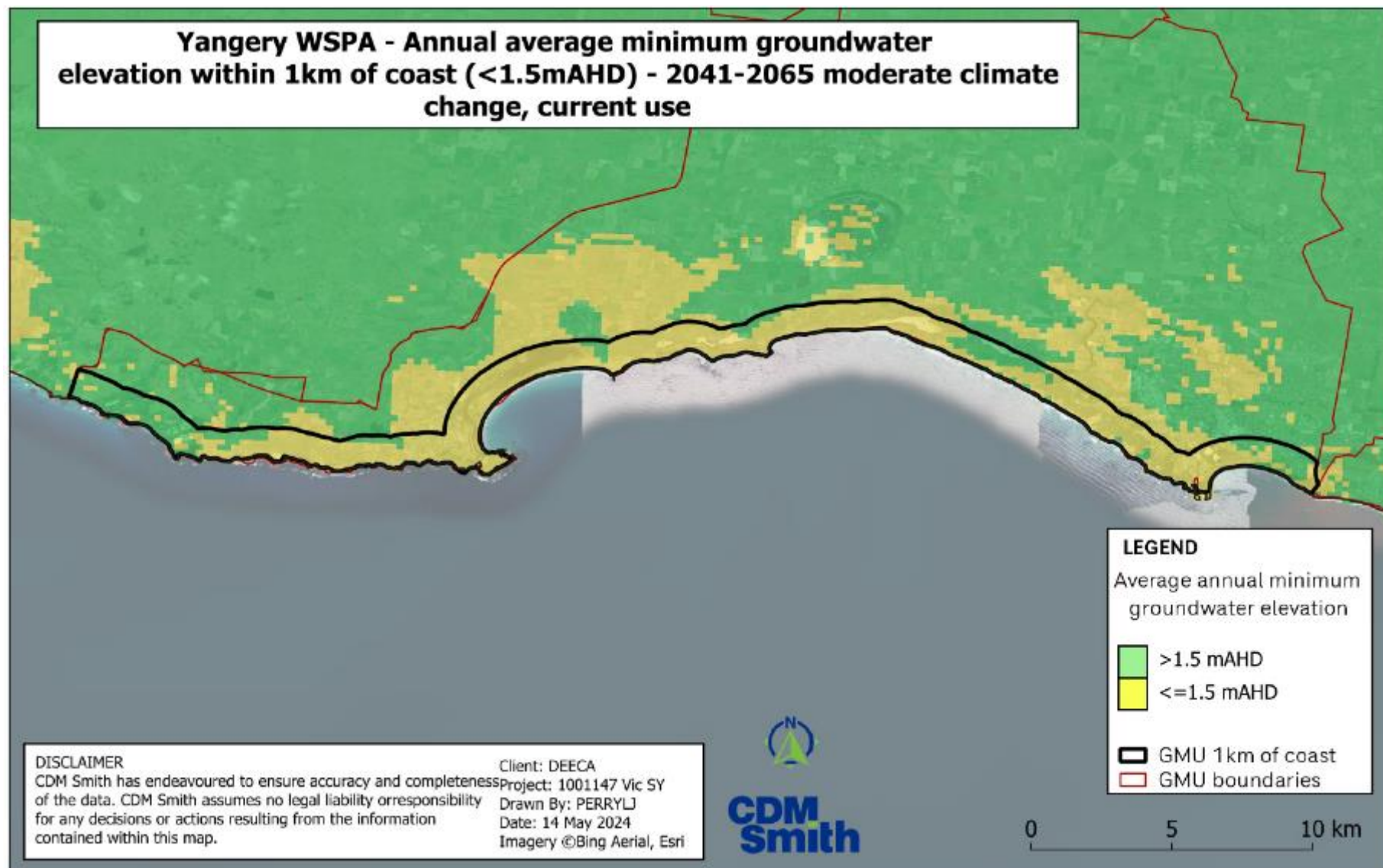


Figure PP-153 Seawater intrusion analysis area for the Yangery GMA - 2041-2065 medium climate change and current groundwater use.

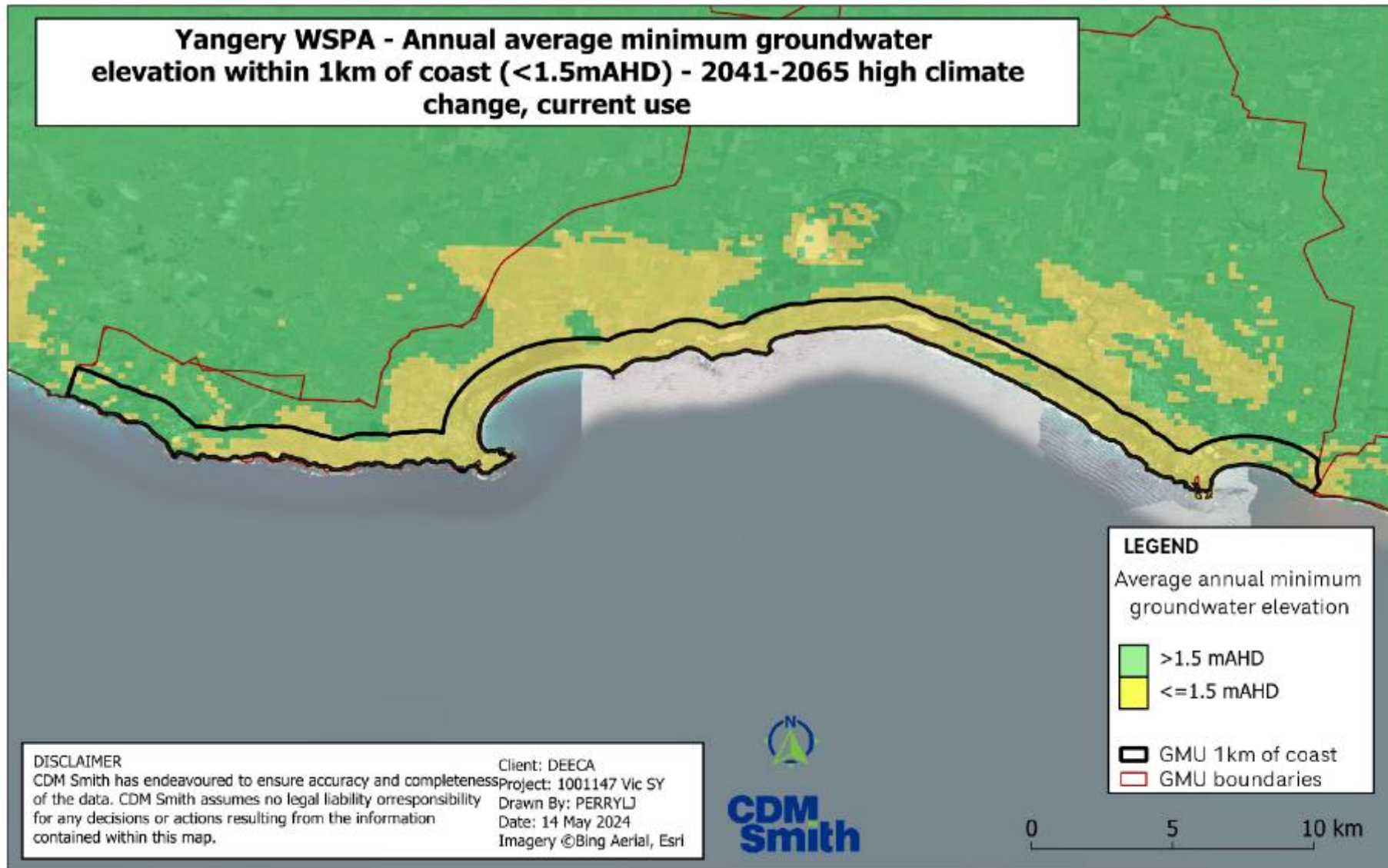
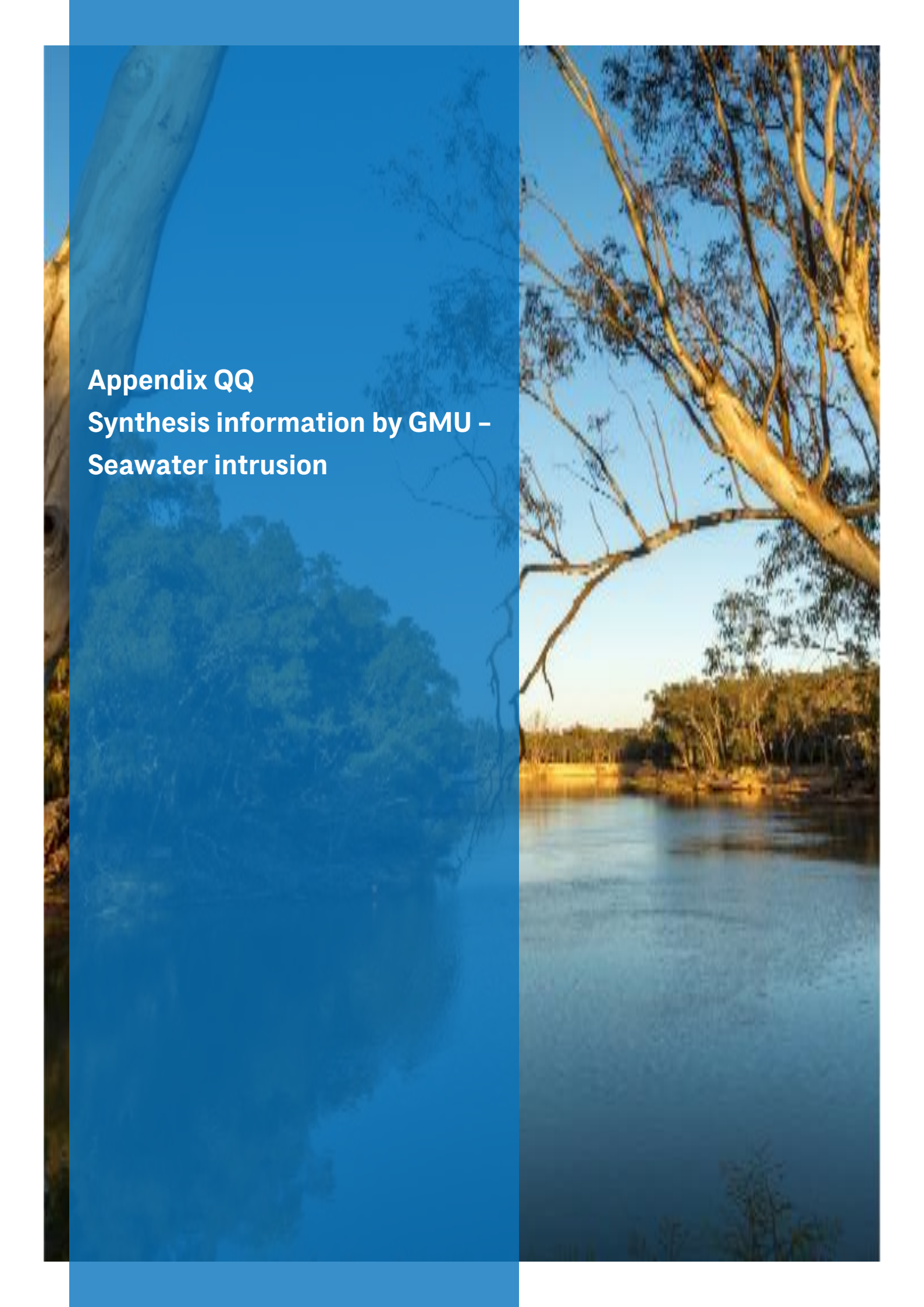


Figure PP-154 Seawater intrusion analysis area for the Yangery GMA - 2041-2065 high climate change and current groundwater use.



Appendix QQ
Synthesis information by GMU –
Seawater intrusion

Table QQ-1 Synthesis information – Seawater intrusion- Deutgam WSPA

Assessment area	GMU			DEUTGAM WSPA		
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 708 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
				MCC (LCC - HCC)	0.9 (0.1 to 1.5)	
			Area elev. <1.5 mAHD (%)	No CC	58%	
				MCC (LCC - HCC)	70% (42% to 86%)	
			2041-2065	Drawdown from baseline (m)	No CC	1.0
				MCC (LCC - HCC)	1.0 (0.5 to 2.5)	
		Area elev. <1.5 mAHD (%)	No CC	71%		
			MCC (LCC - HCC)	71% (54% to 98%)		
		PCV use 4,274 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.9
				MCC (LCC - HCC)	2.5 (1.4 to 3.5)	
			Area elev. <1.5 mAHD (%)	No CC	93%	
				MCC (LCC - HCC)	98% (83% to 98%)	
			2041-2065	Drawdown from baseline (m)	No CC	3.1
				MCC (LCC - HCC)	4.2 (2.1 to 6.2)	
		Area elev. <1.5 mAHD (%)	No CC	98%		
			MCC (LCC - HCC)	98% (96% to 98%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	114
				MCC (LCC - HCC)	- (2,034 to -)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (10.7% to -)	
			2041-2065	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (1,047 to -)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	- (6.1% to -)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-2 Synthesis information – Seawater intrusion- Frankston GMA

Assessment area	GMU				FRANKSTON GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 56 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
				MCC (LCC - HCC)	1.2 (0.0 to 2.0)	
			Area elev. <1.5 mAHD (%)	No CC	95%	
				MCC (LCC - HCC)	96% (88% to 98%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.9
				MCC (LCC - HCC)	1.7 (0.5 to 3.7)	
		Area elev. <1.5 mAHD (%)	No CC	96%		
			MCC (LCC - HCC)	97% (95% to 99%)		
		PCV use 665 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
				MCC (LCC - HCC)	2.2 (1.2 to 3.1)	
			Area elev. <1.5 mAHD (%)	No CC	97%	
				MCC (LCC - HCC)	98% (96% to 99%)	
			2041-2065	Drawdown from baseline (m)	No CC	2.2
				MCC (LCC - HCC)	3.3 (1.3 to 5.3)	
		Area elev. <1.5 mAHD (%)	No CC	98%		
			MCC (LCC - HCC)	99% (97% to 99%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	- (- to -)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-3 Synthesis information – Seawater intrusion- Glenelg WSPA

Assessment area	GMU				GLENELG WSPA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 6,068 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	-0.06
				MCC (LCC - HCC)	-0.03 (0.07 to 0.36)	
			Area elev. <1.5 mAHD (%)	No CC	97%	
				MCC (LCC - HCC)	96% (96% to 96%)	
			2041-2065	Drawdown from baseline (m)	No CC	-0.08
				MCC (LCC - HCC)	0.15 (0.03 to 1.18)	
		Area elev. <1.5 mAHD (%)	No CC	97%		
			MCC (LCC - HCC)	97% (97% to 97%)		
		PCV use 23,625 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.29
				MCC (LCC - HCC)	0.64 (0.31 to 1.11)	
			Area elev. <1.5 mAHD (%)	No CC	97%	
				MCC (LCC - HCC)	97% (97% to 97%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.56
				MCC (LCC - HCC)	1.3 (0.50 to 2.1)	
		Area elev. <1.5 mAHD (%)	No CC	97%		
			MCC (LCC - HCC)	98% (97% to 98%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
Proportion of recharge (%)	No CC		NA			
	MCC (LCC - HCC)		- (- to -)			
2041-2065	Volume (ML/yr)		No CC	-		
	MCC (LCC - HCC)		- (- to -)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	- (- to -)				

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-4 Synthesis information – Seawater intrusion- Hawkesdale GMA

Assessment area	GMU					HAWKESDALE GMA	
	Representative Suite/bore						
	Aquifer						
	Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)						
	Licensed Entitlement (ML/yr)						
	Licensed avg use (ML/yr)						
Seawater intrusion	Seawater intrusion	Avg Use 4,790 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.46	
				MCC (LCC - HCC)	0.04 (-0.05 to 0.38)		
			Area elev. <1.5 mAHD (%)	No CC	32%		
				MCC (LCC - HCC)	28% (28% to 30%)		
			2041-2065	Drawdown from baseline (m)	No CC	0.40	
				MCC (LCC - HCC)	0.54 (0.43 to 0.96)		
		Area elev. <1.5 mAHD (%)	No CC	28%			
			MCC (LCC - HCC)	31% (30% to 34%)			
		PCV use 11,192 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.76	
				MCC (LCC - HCC)	0.84 (0.48 to 1.3)		
			Area elev. <1.5 mAHD (%)	No CC	34%		
				MCC (LCC - HCC)	34% (30% to 37%)		
			2041-2065	Drawdown from baseline (m)	No CC	0.72	
				MCC (LCC - HCC)	1.1 (0.6 to 1.9)		
		Area elev. <1.5 mAHD (%)	No CC	34%			
			MCC (LCC - HCC)	36% (31% to 41%)			
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	48,397	
				MCC (LCC - HCC)	55,938 (70,553 to 47,371)		
			Proportion of recharge (%)	No CC	NA		
				MCC (LCC - HCC)	18% (20% to 18%)		
			2041-2065	Volume (ML/yr)	No CC	39,142	
				MCC (LCC - HCC)	65,327 (76,968 to 43,216)		
		Proportion of recharge (%)	No CC	NA			
			MCC (LCC - HCC)	24% (24% to 22%)			

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-5 Synthesis information – Seawater intrusion- Heywood GMA

Assessment area	GMU				HEYWOOD GMA	
		Representative Suite/bore				
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 2,320 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.11
				MCC (LCC - HCC)	-1.2 (-1.1 to -1.0)	
			Area elev. <1.5 mAHD (%)	No CC	64%	
				MCC (LCC - HCC)	62% (62% to 62%)	
			2041-2065	Drawdown from baseline (m)	No CC	-0.22
				MCC (LCC - HCC)	0.09 (0.06 to 0.33)	
		Area elev. <1.5 mAHD (%)	No CC	62%		
			MCC (LCC - HCC)	64% (64% to 64%)		
		PCV use 7,137 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.45
				MCC (LCC - HCC)	0.50 (0.25 to 0.87)	
			Area elev. <1.5 mAHD (%)	No CC	65%	
				MCC (LCC - HCC)	65% (64% to 66%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.64
				MCC (LCC - HCC)	0.90 (0.41 to 1.5)	
		Area elev. <1.5 mAHD (%)	No CC	65%		
			MCC (LCC - HCC)	66% (65% to 68%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	16,994
				MCC (LCC - HCC)	16,662 (20,399 to 13,603)	
Proportion of recharge (%)	No CC		NA			
	MCC (LCC - HCC)		14% (14% to 15%)			
2041-2065	Volume (ML/yr)		No CC	15,928		
	MCC (LCC - HCC)		10,569 (15,983 to 1,643)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	12% (14% to 3%)				

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded

Table QQ-6 Synthesis information – Seawater intrusion- Jan Juc GMA

Assessment area	GMU					JAN JUC GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 370 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.2
				MCC (LCC - HCC)	1.7 (1.2 to 3.1)	
			Area elev. <1.5 mAHD (%)	No CC	22%	
				MCC (LCC - HCC)	23% (23% to 25%)	
			2041-2065	Drawdown from baseline (m)	No CC	2.0
				MCC (LCC - HCC)	2.3 (1.3 to 4.6)	
		Area elev. <1.5 mAHD (%)	No CC	23%		
			MCC (LCC - HCC)	24% (22% to 27%)		
		PCV use 4,250 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	6.8
				MCC (LCC - HCC)	7.0 (5.9 to 8.6)	
			Area elev. <1.5 mAHD (%)	No CC	30%	
				MCC (LCC - HCC)	29% (27% to 32%)	
			2041-2065	Drawdown from baseline (m)	No CC	15
				MCC (LCC - HCC)	16 (14 to 18)	
		Area elev. <1.5 mAHD (%)	No CC	49%		
			MCC (LCC - HCC)	50% (46% to 56%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	10,563
				MCC (LCC - HCC)	10,320 (11,366 to 9,338)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	45.8% (44.7% to 50.3%)	
			2041-2065	Volume (ML/yr)	No CC	4,604
				MCC (LCC - HCC)	4,258 (4,799 to 3,596)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	24.9% (23.3% to 32.0%)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded

Table QQ-7 Synthesis information – Seawater intrusion- Koo Wee Rup WSPA

Assessment area	GMU				KOO WEE RUP WSPA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 3,483 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.8
				MCC (LCC - HCC)	1.0 (-0.4 to 2.0)	
			Area elev. <1.5 mAHD (%)	No CC	87%	
				MCC (LCC - HCC)	88% (80% to 90%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.9
				MCC (LCC - HCC)	2.7 (0.7 to 4.2)	
		Area elev. <1.5 mAHD (%)	No CC	87%		
			MCC (LCC - HCC)	91% (86% to 93%)		
		PCV use 11,497 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.5
				MCC (LCC - HCC)	2.2 (1.4 to 3.1)	
			Area elev. <1.5 mAHD (%)	No CC	89%	
				MCC (LCC - HCC)	91% (88% to 92%)	
			2041-2065	Drawdown from baseline (m)	No CC	2.5
				MCC (LCC - HCC)	3.6 (1.5 to 5.4)	
		Area elev. <1.5 mAHD (%)	No CC	91%		
			MCC (LCC - HCC)	92% (89% to 93%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	- (- to -)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-8 Synthesis information – Seawater intrusion- Moorabbin GMA

Assessment area	GMU				MOORABBIN GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 91 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7
				MCC (LCC - HCC)	1.9 (1.1 to 2.6)	
			Area elev. <1.5 mAHD (%)	No CC	13%	
				MCC (LCC - HCC)	17% (12% to 21%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.91
				MCC (LCC - HCC)	1.5 (0.3 to 3.0)	
		Area elev. <1.5 mAHD (%)	No CC	14%		
			MCC (LCC - HCC)	15% (11% to 23%)		
		PCV use 257 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.2
				MCC (LCC - HCC)	2.7 (2.0 to 3.7)	
			Area elev. <1.5 mAHD (%)	No CC	20%	
				MCC (LCC - HCC)	23% (18% to 27%)	
			2041-2065	Drawdown from baseline (m)	No CC	2.9
				MCC (LCC - HCC)	4.1 (2.1 to 6.1)	
		Area elev. <1.5 mAHD (%)	No CC	24%		
			MCC (LCC - HCC)	29% (18% to 38%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	1,316
				MCC (LCC - HCC)	1,217 (1,543 to 1,141)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	5.1% (4.9% to 6.4%)	
2041-2065	Volume (ML/yr)		No CC	808		
	MCC (LCC - HCC)		647 (948 to 467)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	3.5% (3.4% to 4.6%)				

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded

Table QQ-9 Synthesis information – Seawater intrusion- Nepan GMA

Assessment area	GMU					NEPEAN GMA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 2,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.90
				MCC (LCC - HCC)	1.6 (0.4 to 2.7)	
			Area elev. <1.5 mAHD (%)	No CC	49%	
				MCC (LCC - HCC)	55% (41% to 65%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.67
				MCC (LCC - HCC)	2.6 (0.9 to 4.5)	
		Area elev. <1.5 mAHD (%)	No CC	45%		
			MCC (LCC - HCC)	65% (49% to 75%)		
		PCV use 4,306 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.8
				MCC (LCC - HCC)	2.2 (1.3 to 3.1)	
			Area elev. <1.5 mAHD (%)	No CC	59%	
				MCC (LCC - HCC)	61% (53% to 67%)	
			2041-2065	Drawdown from baseline (m)	No CC	4.7
				MCC (LCC - HCC)	5.5 (4.0 to 6.8)	
		Area elev. <1.5 mAHD (%)	No CC	73%		
			MCC (LCC - HCC)	76% (70% to 78%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	7,304
				MCC (LCC - HCC)	6,034 (8,461 to 4,004)	
Proportion of recharge (%)	No CC		NA			
	MCC (LCC - HCC)		27.0% (31.9% to 21.5%)			
2041-2065	Volume (ML/yr)		No CC	3,016		
	MCC (LCC - HCC)		2,080 (3,531 to 674)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	11.5% (15.3% to 4.9%)				

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded

Table QQ-10 Synthesis information – Seawater intrusion- Newlingrook GMA

Assessment area	GMU				NEWLINGROOK GMA	
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 29 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	2.1
				MCC (LCC - HCC)	0.7 (1.7 to 2.8)	
			Area elev. <1.5 mAHD (%)	No CC	44%	
				MCC (LCC - HCC)	43% (44% to 45%)	
			2041-2065	Drawdown from baseline (m)	No CC	2.0
				MCC (LCC - HCC)	2.4 (1.4 to 5.1)	
		Area elev. <1.5 mAHD (%)	No CC	43%		
			MCC (LCC - HCC)	45% (44% to 49%)		
		PCV use 1,922 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	3.7
				MCC (LCC - HCC)	2.6 (2.9 to 4.8)	
			Area elev. <1.5 mAHD (%)	No CC	47%	
				MCC (LCC - HCC)	44% (45% to 49%)	
			2041-2065	Drawdown from baseline (m)	No CC	6.5
				MCC (LCC - HCC)	6.4 (5.0 to 10.1)	
		Area elev. <1.5 mAHD (%)	No CC	50%		
			MCC (LCC - HCC)	50% (48% to 55%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	11,205
				MCC (LCC - HCC)	10,200 (12,958 to 10,293)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	8.7% (9.0% to 12.1%)	
			2041-2065	Volume (ML/yr)	No CC	5,596
				MCC (LCC - HCC)	4,532 (5,567 to 3,175)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	4.5% (4.0% to 4.7%)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded

Table QQ-11 Synthesis information – Seawater intrusion- Nullawarre WSPA

Assessment area	GMU				NULLAWARRE WSPA	
	Representative Suite/bore					
Aquifer						
Water system depth boundary (m below natural surface)						
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 11,103 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.97
				MCC (LCC - HCC)	-0.01 (-0.02 to 1.04)	
			Area elev. <1.5 mAHD (%)	No CC	7%	
				MCC (LCC - HCC)	7% (7% to 9%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.75
				MCC (LCC - HCC)	1.5 (0.9 to 3.1)	
		Area elev. <1.5 mAHD (%)	No CC	7%		
			MCC (LCC - HCC)	8% (7% to 13%)		
		PCV use 20,194 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	1.1
				MCC (LCC - HCC)	1.2 (0.7 to 2.6)	
			Area elev. <1.5 mAHD (%)	No CC	7%	
				MCC (LCC - HCC)	8% (6% to 12%)	
			2041-2065	Drawdown from baseline (m)	No CC	1.6
				MCC (LCC - HCC)	2.4 (0.9 to 4.7)	
		Area elev. <1.5 mAHD (%)	No CC	9%		
			MCC (LCC - HCC)	12% (7% to 18%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	809,485
				MCC (LCC - HCC)	446,855 (1,430,579 to 403,977)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	362.9% (968.5% to 417.0%)	
2041-2065	Volume (ML/yr)		No CC	557,876		
	MCC (LCC - HCC)		347,014 (1,426,436 to 241,633)			
Proportion of recharge (%)	No CC	NA				
	MCC (LCC - HCC)	352.2% (1097.3% to 346.5%)				

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-12 Synthesis information – Seawater intrusion- South West Limestone GMA

Assessment area		GMU					SOUTH WEST LIMESTONE GMA	
		Representative Suite/bore						
Aquifer								
Water system depth boundary (m below natural surface)								
Catchment		Permissible Consumptive Volume (ML/yr)						
		Licensed Entitlement (ML/yr)						
		Licensed avg use (ML/yr)						
Seawater intrusion	Seawater intrusion	Avg Use 30,801 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.41		
				MCC (LCC - HCC)	-0.46 (-0.32 to 0.16)			
			Area elev. <1.5 mAHD (%)	No CC	50%			
				MCC (LCC - HCC)	48% (48% to 50%)			
			2041-2065	Drawdown from baseline (m)	No CC	0.24		
				MCC (LCC - HCC)	0.57 (0.34 to 1.6)			
		Area elev. <1.5 mAHD (%)	No CC	49%				
			MCC (LCC - HCC)	51% (50% to 54%)				
		PCV use 83,330 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.74		
				MCC (LCC - HCC)	0.77 (0.47 to 1.6)			
			Area elev. <1.5 mAHD (%)	No CC	51%			
				MCC (LCC - HCC)	51% (50% to 54%)			
			2041-2065	Drawdown from baseline (m)	No CC	1.1		
				MCC (LCC - HCC)	1.6 (0.8 to 3.0)			
		Area elev. <1.5 mAHD (%)	No CC	52%				
			MCC (LCC - HCC)	54% (51% to 57%)				
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	692,933		
				MCC (LCC - HCC)	609,178 (1,087,776 to 586,936)			
			Proportion of recharge (%)	No CC	NA			
				MCC (LCC - HCC)	37.1% (55.3% to 42.8%)			
2041-2065	Volume (ML/yr)		No CC	545,727				
	MCC (LCC - HCC)		429,124 (707,373 to 346,839)					
Proportion of recharge (%)	No CC	NA						
	MCC (LCC - HCC)	32.3% (40.9% to 34.6%)						

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-13 Synthesis information – Seawater intrusion- Tarwin GMA

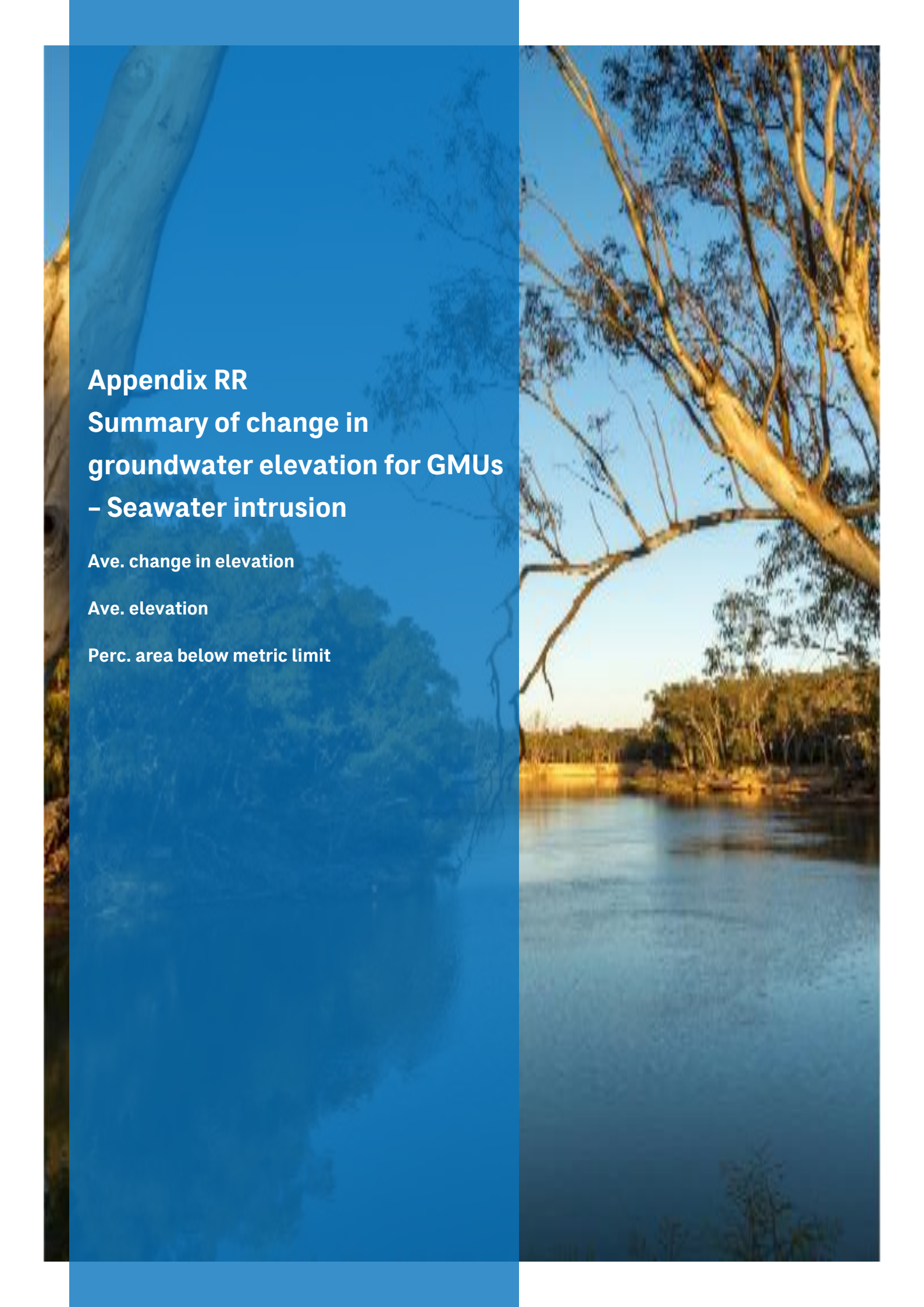
Assessment area	GMU				TARWIN GMA			
	Representative Suite/bore							
Aquifer								
Water system depth boundary (m below natural surface)								
Catchment	Permissible Consumptive Volume (ML/yr)							
	Licensed Entitlement (ML/yr)							
	Licensed avg use (ML/yr)							
Seawater intrusion	Seawater intrusion	Avg Use 11 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.7		
				MCC (LCC - HCC)	-1.2 (-4.0 to -2.5)			
				Area elev. <1.5 mAHD (%)	No CC	51%		
				MCC (LCC - HCC)	37% (17% to 29%)			
				2041-2065	Drawdown from baseline (m)	No CC	-3.3	
					MCC (LCC - HCC)	2.1 (-1.6 to 0.4)		
			Area elev. <1.5 mAHD (%)		No CC	24%		
			MCC (LCC - HCC)		61% (33% to 48%)			
			PCV use 49 ML/yr		2021-2040	Drawdown from baseline (m)	No CC	1.0
						MCC (LCC - HCC)	1.3 (-1.1 to -1.0)	
				Area elev. <1.5 mAHD (%)		No CC	53%	
				MCC (LCC - HCC)	56% (38% to 38%)			
		2041-2065		Drawdown from baseline (m)	No CC	1.8		
				MCC (LCC - HCC)	2.1 (-0.9 to -0.1)			
			Area elev. <1.5 mAHD (%)	No CC	59%			
		MCC (LCC - HCC)	60% (39% to 44%)					
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	27		
					MCC (LCC - HCC)	41 (121 to 109)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	0.4% (1.1% to 1.4%)		
			2041-2065	Volume (ML/yr)	No CC	45		
					MCC (LCC - HCC)	- (97 to 69)		
				Proportion of recharge (%)	No CC	NA		
					MCC (LCC - HCC)	- (1.0% to 1.2%)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.

Table QQ-14 Synthesis information – Seawater intrusion- Yangery WSPA

Assessment area	GMU					YANGERY WSPA
	Representative Suite/bore					
	Aquifer					
	Water system depth boundary (m below natural surface)					
Catchment	Permissible Consumptive Volume (ML/yr)					
	Licensed Entitlement (ML/yr)					
	Licensed avg use (ML/yr)					
Seawater intrusion	Seawater intrusion	Avg Use 3,425 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.5
				MCC (LCC - HCC)	0.3 (0.05 to 0.8)	
			Area elev. <1.5 mAHD (%)	No CC	74%	
				MCC (LCC - HCC)	73% (70% to 76%)	
			2041-2065	Drawdown from baseline (m)	No CC	0.34
				MCC (LCC - HCC)	0.67 (0.40 to 1.5)	
		Area elev. <1.5 mAHD (%)	No CC	72%		
			MCC (LCC - HCC)	75% (74% to 82%)		
		PCV use 12,123 ML/yr	2021-2040	Drawdown from baseline (m)	No CC	0.72
				MCC (LCC - HCC)	0.84 (0.42 to 1.6)	
			Area elev. <1.5 mAHD (%)	No CC	75%	
				MCC (LCC - HCC)	77% (73% to 83%)	
			2041-2065	Drawdown from baseline (m)	No CC	1.1
				MCC (LCC - HCC)	1.6 (0.8 to 2.7)	
		Area elev. <1.5 mAHD (%)	No CC	78%		
			MCC (LCC - HCC)	82% (75% to 86%)		
		Use at 1.5 mAHD	2021-2040	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
			Proportion of recharge (%)	No CC	NA	
				MCC (LCC - HCC)	- (- to -)	
			2041-2065	Volume (ML/yr)	No CC	-
				MCC (LCC - HCC)	- (- to -)	
		Proportion of recharge (%)	No CC	NA		
			MCC (LCC - HCC)	- (- to -)		

*Represents the proportion of the area of GMU within 1km of coast where drawdown limit is exceeded.



Appendix RR
Summary of change in
groundwater elevation for GMUs
– Seawater intrusion

Ave. change in elevation

Ave. elevation

Perc. area below metric limit

Table RR-1 Estimated average change in annual minimum groundwater elevation from Baseline (1950-1974) for coastal GMU areas and scenarios - noCC - current climate (no climate change), LCC - low climate change, MCC - medium climate change, HCC - high climate change.

GMU	Pumping scenario	Estimated change in average annual minimum groundwater elevation for coastal area of GMU from baseline							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Deutgam WSPA	No use	-0.1	0.7	-0.6	-0.8	-0.4	0.5	-1.2	-1.5
Deutgam WSPA	Current use	-0.5	-0.1	-0.9	-1.5	-1.0	-0.5	-1.0	-2.5
Deutgam WSPA	PCV use	-1.9	-1.4	-2.5	-3.5	-3.1	-2.1	-4.2	-6.2
Deutgam WSPA	200% PCV use	-2.9	-2.3	-3.4	-4.4	-5.3	-4.0	-6.1	-8.0
Frankston GMA	No use	-0.2	0.4	-0.4	-1.0	-0.5	0.4	-1.0	-1.9
Frankston GMA	Current use	-0.7	0.0	-1.2	-2.0	-0.9	-0.5	-1.7	-3.7
Frankston GMA	PCV use	-1.5	-1.2	-2.2	-3.1	-2.2	-1.3	-3.3	-5.3
Frankston GMA	200% PCV use	-2.4	-2.0	-2.9	-3.8	-3.7	-3.1	-4.8	-6.4
Glenelg WSPA	No use	1.5	-0.5	0.1	-1.0	1.3	-0.1	-1.0	-3.1
Glenelg WSPA	Current use	0.1	-0.1	0.0	-0.4	0.1	0.0	-0.1	-1.2
Glenelg WSPA	PCV use	-0.3	-0.3	-0.6	-1.1	-0.6	-0.5	-1.3	-2.1
Glenelg WSPA	200% PCV use	-0.5	-0.6	-0.9	-1.3	-0.2	-1.0	-1.8	-2.6
Hawkesdale GMA	No use	0.0	-0.4	-0.6	-1.4	-0.3	-0.4	-1.3	-2.6
Hawkesdale GMA	Current use	-0.5	0.0	0.0	-0.4	-0.4	-0.4	-0.5	-1.0
Hawkesdale GMA	PCV use	-0.8	-0.5	-0.8	-1.3	-0.7	-0.6	-1.1	-1.9
Hawkesdale GMA	200% PCV use	-0.9	-0.8	-1.0	-1.5	-1.3	-0.9	-1.4	-2.2
Heywood GMA	No use	0.8	0.2	0.3	-0.3	0.6	0.3	-0.3	-1.6
Heywood GMA	Current use	-0.1	1.1	1.2	1.0	0.2	-0.1	-0.1	-0.3
Heywood GMA	PCV use	-0.4	-0.2	-0.5	-0.9	-0.6	-0.4	-0.9	-1.5
Heywood GMA	200% PCV use	-0.7	-0.6	-0.7	-1.1	-0.8	-0.9	-1.4	-2.0
Jan Juc GMA	No use	-1.4	-0.3	-0.8	-3.0	-2.4	-0.9	-2.5	-5.3
Jan Juc GMA	Current use	-1.2	-1.2	-1.7	-3.1	-2.0	-1.3	-2.3	-4.6
Jan Juc GMA	PCV use	-6.8	-5.9	-7.0	-8.6	-15.3	-14.2	-16.1	-18.1
Jan Juc GMA	200% PCV use	-13.2	-12.2	-13.4	-14.9	-27.9	-28.0	-30.1	-31.8
Koo Wee Rup WSPA	No use	-0.1	0.9	-0.3	-0.5	-0.4	0.9	-1.0	-1.9

GMU	Pumping scenario	Estimated change in average annual minimum groundwater elevation for coastal area of GMU from baseline							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Koo Wee Rup WSPA	Current use	-0.8	0.4	-1.0	-2.0	-0.9	-0.7	-2.7	-4.2
Koo Wee Rup WSPA	PCV use	-1.5	-1.4	-2.2	-3.1	-2.5	-1.5	-3.6	-5.4
Koo Wee Rup WSPA	200% PCV use	-2.6	-1.9	-3.3	-4.0	-4.1	-3.2	-5.3	-6.7
Moorabbin GMA	No use	-0.7	-0.5	-0.8	-2.2	-0.9	-0.5	-1.3	-2.9
Moorabbin GMA	Current use	-0.7	-1.1	-1.9	-2.6	-0.9	-0.3	-1.5	-3.0
Moorabbin GMA	PCV use	-2.2	-2.0	-2.7	-3.7	-2.9	-2.1	-4.1	-6.1
Moorabbin GMA	200% PCV use	-3.5	-3.0	-3.9	-4.8	-5.4	-4.6	-6.6	-8.5
Nepean GMA	No use	-0.8	0.3	-0.6	-1.4	-1.2	0.2	-1.5	-3.0
Nepean GMA	Current use	-0.9	-0.4	-1.6	-2.7	-0.7	-0.9	-2.6	-4.5
Nepean GMA	PCV use	-1.8	-1.3	-2.2	-3.1	-4.7	-4.0	-5.5	-6.8
Nepean GMA	200% PCV use	-4.0	-3.4	-4.5	-5.4	-9.7	-9.4	-11.0	-12.2
Newlingrook GMA	No use	-1.3	-0.8	1.4	-2.8	-2.1	-1.0	-0.3	-5.5
Newlingrook GMA	Current use	-2.1	-1.7	-0.7	-2.8	-2.0	-1.4	-2.4	-5.1
Newlingrook GMA	PCV use	-3.7	-2.9	-2.6	-4.8	-6.5	-5.0	-6.4	-10.1
Newlingrook GMA	200% PCV use	-5.5	-4.7	-4.5	-6.5	-9.1	-9.3	-11.0	-14.2
Nullawarre WSPA	No use	-0.3	-0.4	0.0	-1.5	-0.8	-0.6	-0.9	-3.0
Nullawarre WSPA	Current use	-1.0	0.0	0.0	-1.0	-0.7	-0.9	-1.5	-3.1
Nullawarre WSPA	PCV use	-1.1	-0.7	-1.2	-2.6	-1.6	-0.9	-2.4	-4.7
Nullawarre WSPA	200% PCV use	-1.1	-0.7	-1.2	-2.6	-1.7	-1.1	-2.6	-4.8
South West Limestone GMA	No use	0.5	-0.2	0.3	-0.9	0.2	-0.1	-0.5	-2.5
South West Limestone GMA	Current use	-0.4	0.3	0.5	-0.2	-0.2	-0.3	-0.6	-1.6
South West Limestone GMA	PCV use	-0.7	-0.5	-0.8	-1.6	-1.1	-0.8	-1.6	-3.0
South West Limestone GMA	200% PCV use	-1.0	-0.8	-1.0	-1.8	-1.4	-1.3	-2.2	-3.6
Tarwin GMA	No use	0.0	4.3	-0.1	3.5	-0.2	4.3	-0.5	2.5
Tarwin GMA	Current use	-0.7	4.0	1.2	2.5	3.3	1.6	-2.1	-0.4
Tarwin GMA	PCV use	-1.0	1.1	-1.3	1.0	-1.8	0.9	-2.1	0.1
Tarwin GMA	200% PCV use	-2.1	0.6	-2.5	-0.1	-3.1	-0.5	-3.4	-1.5
Yangery WSPA	No use	0.4	0.1	0.1	-0.4	0.3	0.1	-0.2	-1.1

GMU	Pumping scenario	Estimated change in average annual minimum groundwater elevation for coastal area of GMU from baseline							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Yangery WSPA	Current use	-0.5	0.0	-0.3	-0.8	-0.3	-0.4	-0.7	-1.5
Yangery WSPA	PCV use	-0.7	-0.4	-0.8	-1.6	-1.1	-0.8	-1.6	-2.7
Yangery WSPA	200% PCV use	-1.0	-0.7	-1.1	-1.8	-1.0	-1.3	-2.1	-3.2

Table RR-2 Estimated average annual minimum groundwater elevation for coastal GMU areas (within 1km of coast)- noCC -current climate (no climate change), LCC - low climate change, MCC - medium climate change, HCC - high climate change.

GMU	Pumping scenario	Estimated average groundwater elevation for coastal area of GMU (mAHD)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Deutgam WSPA	No use	1.7	2.5	1.2	1.0	1.4	2.4	0.6	0.3
Deutgam WSPA	Current use	1.3	1.7	0.9	0.4	0.9	1.4	0.9	-0.7
Deutgam WSPA	PCV use	-0.1	0.5	-0.7	-1.7	-1.2	-0.2	-2.4	-4.4
Deutgam WSPA	200% PCV use	-1.0	-0.5	-1.6	-2.6	-3.4	-2.1	-4.3	-6.2
Frankston GMA	No use	0.3	0.9	0.2	-0.4	0.1	0.9	-0.4	-1.4
Frankston GMA	Current use	-0.1	0.6	-0.6	-1.5	-0.4	0.1	-1.2	-3.1
Frankston GMA	PCV use	-1.0	-0.7	-1.6	-2.6	-1.6	-0.8	-2.8	-4.8
Frankston GMA	200% PCV use	-1.8	-1.5	-2.4	-3.2	-3.2	-2.5	-4.2	-5.8
Glenelg WSPA	No use	-5.9	-7.8	-7.3	-8.3	-6.1	-7.5	-8.3	-10.4
Glenelg WSPA	Current use	-7.3	-7.4	-7.3	-7.7	-7.3	-7.4	-7.5	-8.5
Glenelg WSPA	PCV use	-7.6	-7.6	-8.0	-8.4	-7.9	-7.8	-8.6	-9.4
Glenelg WSPA	200% PCV use	-7.9	-7.9	-8.2	-8.7	-7.6	-8.3	-9.2	-9.9
Hawkesdale GMA	No use	3.6	3.2	3.0	2.3	3.3	3.2	2.3	1.0
Hawkesdale GMA	Current use	3.2	3.7	3.6	3.2	3.2	3.2	3.1	2.6
Hawkesdale GMA	PCV use	2.9	3.1	2.8	2.3	2.9	3.0	2.5	1.7
Hawkesdale GMA	200% PCV use	2.7	2.8	2.6	2.1	2.3	2.7	2.2	1.4
Heywood GMA	No use	3.4	2.8	2.9	2.2	3.2	2.9	2.3	1.0
Heywood GMA	Current use	2.5	3.7	3.8	3.6	2.8	2.5	2.5	2.3
Heywood GMA	PCV use	2.1	2.3	2.1	1.7	2.0	2.2	1.7	1.1
Heywood GMA	200% PCV use	1.9	2.0	1.8	1.5	1.8	1.7	1.2	0.6
Jan Juc GMA	No use	16.1	17.2	16.7	14.5	15.1	16.6	15.0	12.2
Jan Juc GMA	Current use	16.3	16.3	15.8	14.4	15.5	16.2	15.2	12.9
Jan Juc GMA	PCV use	10.7	11.6	10.5	8.9	2.2	3.3	1.4	-0.6
Jan Juc GMA	200% PCV use	4.3	5.3	4.1	2.6	-10.4	-10.5	-12.6	-14.3
Koo Wee Rup WSPA	No use	0.3	1.2	0.0	-0.2	-0.1	1.2	-0.7	-1.5

GMU	Pumping scenario	Estimated average groundwater elevation for coastal area of GMU (mAHD)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Koo Wee Rup WSPA	Current use	-0.5	0.7	-0.7	-1.6	-0.6	-0.3	-2.4	-3.9
Koo Wee Rup WSPA	PCV use	-1.2	-1.0	-1.9	-2.7	-2.2	-1.2	-3.3	-5.1
Koo Wee Rup WSPA	200% PCV use	-2.3	-1.6	-3.0	-3.7	-3.8	-2.9	-4.9	-6.3
Moorabbin GMA	No use	8.9	9.1	8.8	7.4	8.7	9.1	8.3	6.7
Moorabbin GMA	Current use	8.9	8.5	7.7	7.0	8.7	9.3	8.1	6.6
Moorabbin GMA	PCV use	7.4	7.6	6.9	5.9	6.7	7.6	5.5	3.5
Moorabbin GMA	200% PCV use	6.2	6.6	5.7	4.8	4.2	5.0	3.0	1.1
Nepean GMA	No use	4.0	5.1	4.2	3.4	3.5	5.0	3.2	1.8
Nepean GMA	Current use	3.9	4.3	3.1	2.1	4.1	3.8	2.1	0.2
Nepean GMA	PCV use	3.0	3.5	2.6	1.7	0.1	0.7	-0.8	-2.1
Nepean GMA	200% PCV use	0.7	1.4	0.2	-0.7	-4.9	-4.6	-6.2	-7.5
Newlingrook GMA	No use	13.0	13.5	15.6	11.5	12.2	13.3	14.0	8.8
Newlingrook GMA	Current use	12.2	12.6	13.6	11.5	12.3	12.9	11.9	9.2
Newlingrook GMA	PCV use	10.6	11.4	11.7	9.5	7.8	9.3	7.9	4.2
Newlingrook GMA	200% PCV use	8.8	9.6	9.8	7.8	5.2	5.0	3.3	0.1
Nullawarre WSPA	No use	16.5	16.4	16.8	15.3	16.0	16.2	15.9	13.8
Nullawarre WSPA	Current use	15.8	16.8	16.8	15.8	16.1	15.9	15.3	13.7
Nullawarre WSPA	PCV use	15.7	16.1	15.6	14.2	15.2	15.9	14.4	12.1
Nullawarre WSPA	200% PCV use	15.7	16.1	15.6	14.2	15.1	15.7	14.2	12.0
South West Limestone GMA	No use	7.2	6.5	7.0	5.8	6.9	6.6	6.2	4.2
South West Limestone GMA	Current use	6.3	7.0	7.2	6.6	6.5	6.4	6.1	5.2
South West Limestone GMA	PCV use	6.0	6.2	5.9	5.1	5.6	6.0	5.1	3.7
South West Limestone GMA	200% PCV use	5.7	6.0	5.7	4.9	5.3	5.4	4.5	3.1
Tarwin GMA	No use	2.2	6.5	2.1	5.8	2.1	6.5	1.7	4.7
Tarwin GMA	Current use	1.5	6.2	3.5	4.7	5.5	3.9	0.1	1.8
Tarwin GMA	PCV use	1.3	3.3	0.9	3.2	0.4	3.1	0.1	2.3
Tarwin GMA	200% PCV use	0.2	2.9	-0.3	2.1	-0.9	1.7	-1.2	0.7

GMU	Pumping scenario	Estimated average groundwater elevation for coastal area of GMU (mAHD)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Yangery WSPA	No use	0.4	0.1	0.2	-0.3	0.4	0.2	-0.1	-1.0
Yangery WSPA	Current use	-0.4	0.0	-0.2	-0.7	-0.3	-0.4	-0.6	-1.4
Yangery WSPA	PCV use	-0.7	-0.4	-0.8	-1.5	-1.1	-0.8	-1.5	-2.7
Yangery WSPA	200% PCV use	-0.9	-0.6	-1.0	-1.8	-1.0	-1.2	-2.0	-3.2

Table RR-3 Area of coastal GMU where groundwater elevation is less than 1.5 mAHD - noCC -current climate (no climate change), LCC – low climate change, MCC – medium climate change, HCC – high climate change.

GMU	Pumping scenario	Percentage of GMU coastal area where estimated average minimum groundwater elevation is <1.5mAHD (%)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Deutgam WSPA	No use	42%	13%	56%	65%	51%	18%	76%	87%
Deutgam WSPA	Current use	58%	42%	70%	86%	71%	54%	71%	98%
Deutgam WSPA	PCV use	93%	83%	98%	98%	98%	96%	98%	98%
Deutgam WSPA	200% PCV use	98%	97%	98%	98%	98%	98%	98%	98%
Frankston GMA	No use	90%	67%	95%	97%	96%	70%	97%	98%
Frankston GMA	Current use	95%	88%	96%	98%	96%	95%	97%	99%
Frankston GMA	PCV use	97%	96%	98%	99%	98%	97%	99%	99%
Frankston GMA	200% PCV use	98%	97%	98%	99%	98%	98%	99%	99%
Glenelg WSPA	No use	96%	97%	97%	97%	96%	97%	97%	98%
Glenelg WSPA	Current use	97%	96%	96%	96%	97%	97%	97%	97%
Glenelg WSPA	PCV use	97%	97%	97%	97%	97%	97%	98%	98%
Glenelg WSPA	200% PCV use	97%	97%	97%	97%	97%	97%	98%	98%
Hawkesdale GMA	No use	25%	28%	28%	35%	27%	28%	34%	43%
Hawkesdale GMA	Current use	32%	28%	28%	30%	28%	30%	31%	34%
Hawkesdale GMA	PCV use	34%	30%	34%	37%	34%	31%	36%	41%
Hawkesdale GMA	200% PCV use	36%	34%	37%	40%	36%	33%	39%	45%
Heywood GMA	No use	61%	62%	62%	63%	61%	62%	64%	67%
Heywood GMA	Current use	64%	62%	62%	62%	62%	64%	64%	64%
Heywood GMA	PCV use	65%	64%	65%	66%	65%	65%	66%	68%
Heywood GMA	200% PCV use	66%	65%	66%	67%	66%	66%	67%	68%
Jan Juc GMA	No use	23%	21%	22%	25%	24%	22%	23%	29%
Jan Juc GMA	Current use	22%	23%	23%	25%	23%	22%	24%	27%
Jan Juc GMA	PCV use	30%	27%	29%	32%	49%	46%	50%	56%
Jan Juc GMA	200% PCV use	42%	40%	43%	47%	74%	75%	80%	82%
Koo Wee Rup WSPA	No use	84%	74%	86%	86%	86%	75%	89%	91%

GMU	Pumping scenario	Percentage of GMU coastal area where estimated average minimum groundwater elevation is <1.5mAHD (%)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Koo Wee Rup WSPA	Current use	87%	80%	88%	90%	87%	86%	91%	93%
Koo Wee Rup WSPA	PCV use	89%	88%	91%	92%	91%	89%	92%	93%
Koo Wee Rup WSPA	200% PCV use	91%	90%	92%	92%	93%	92%	93%	94%
Moorabbin GMA	No use	8%	5%	9%	16%	9%	4%	12%	19%
Moorabbin GMA	Current use	13%	12%	17%	21%	14%	11%	15%	23%
Moorabbin GMA	PCV use	20%	18%	23%	27%	24%	18%	29%	38%
Moorabbin GMA	200% PCV use	27%	24%	28%	32%	35%	31%	41%	55%
Nepean GMA	No use	45%	33%	42%	50%	49%	34%	51%	65%
Nepean GMA	Current use	49%	41%	55%	65%	45%	49%	65%	75%
Nepean GMA	PCV use	59%	53%	61%	67%	73%	70%	76%	78%
Nepean GMA	200% PCV use	70%	68%	72%	76%	83%	82%	85%	87%
Newlingrook GMA	No use	43%	41%	38%	46%	44%	43%	41%	49%
Newlingrook GMA	Current use	44%	44%	43%	45%	43%	44%	45%	49%
Newlingrook GMA	PCV use	47%	45%	44%	49%	50%	48%	50%	55%
Newlingrook GMA	200% PCV use	49%	47%	47%	50%	52%	53%	56%	61%
Nullawarre WSPA	No use	7%	7%	7%	10%	8%	7%	9%	13%
Nullawarre WSPA	Current use	7%	7%	7%	9%	7%	7%	8%	13%
Nullawarre WSPA	PCV use	7%	6%	8%	12%	9%	7%	12%	18%
Nullawarre WSPA	200% PCV use	8%	7%	8%	12%	10%	8%	13%	19%
South West Limestone GMA	No use	47%	48%	47%	50%	48%	48%	49%	55%
South West Limestone GMA	Current use	50%	48%	48%	50%	49%	50%	51%	54%
South West Limestone GMA	PCV use	51%	50%	51%	54%	52%	51%	54%	57%
South West Limestone GMA	200% PCV use	52%	51%	52%	55%	54%	52%	55%	59%
Tarwin GMA	No use	47%	17%	48%	23%	48%	15%	51%	31%
Tarwin GMA	Current use	51%	17%	37%	29%	24%	33%	61%	48%
Tarwin GMA	PCV use	53%	38%	56%	38%	59%	39%	60%	44%
Tarwin GMA	200% PCV use	61%	41%	63%	46%	66%	48%	68%	54%
Yangery WSPA	No use	65%	67%	67%	71%	66%	67%	70%	77%

GMU	Pumping scenario	Percentage of GMU coastal area where estimated average minimum groundwater elevation is <1.5mAHD (%)							
		2021-2040				2041-2065			
		noCC	LCC	MCC	HCC	noCC	LCC	MCC	HCC
Yangery WSPA	Current use	74%	70%	73%	76%	72%	74%	75%	82%
Yangery WSPA	PCV use	75%	73%	77%	83%	78%	75%	82%	86%
Yangery WSPA	200% PCV use	77%	75%	78%	84%	82%	76%	83%	87%



Appendix SS
Use-elevation relationships for
coastal GMU areas

Table SS-1 Relationship between change in elevation of the watertable (as average annual minimum groundwater elevation) for GMU coastal areas (within 1km of coast) and groundwater use, as the elements of the linear relationship of $Change\ in\ groundwater\ elevation\ (m) = M*use\ (ML/yr) + C$.

GMU	Relationship between change in elevation of the watertable for GMU coastal areas (within 1km of coast) and groundwater use															
	<i>Change in groundwater elevation (m) = M*use (ML/yr) + C</i>															
	2021-2040								2041-2065							
	noCC		LCC		MCC		HCC		noCC		LCC		MCC		HCC	
M	C	M	C	M	C	M	C	M	C	M	C	M	C	M	C	
Deutgam WSPA	-0.000319	1.54	-0.000329	2.17	-0.000338	1.10	-0.000422	0.70	-0.000563	1.30	-0.000497	2.02	-0.000622	0.80	-0.000763	-0.17
Frankston GMA	-0.001490	0.11	-0.001757	0.74	-0.001731	-0.21	-0.001863	-0.95	-0.002334	-0.08	-0.002307	0.61	-0.002685	-0.76	-0.002868	-2.29
Glenelg WSPA	-0.000033	-6.52	-0.000005	-7.61	-0.000021	-7.29	-0.000014	-8.02	-0.000026	-6.71	-0.000020	-7.38	-0.000027	-7.88	-0.000005	-9.49
Hawkesdale GMA	-0.000041	3.46	-0.000028	3.47	-0.000032	3.29	-0.000025	2.69	-0.000048	3.39	-0.000023	3.25	-0.000018	2.70	-0.000006	1.76
Heywood GMA	-0.000088	3.00	-0.000084	3.21	-0.000108	3.30	-0.000100	2.86	-0.000095	3.01	-0.000081	2.80	-0.000088	2.43	-0.000064	1.61
Jan Juc GMA	-0.001420	16.50	-0.001371	17.09	-0.001461	16.58	-0.001421	14.77	-0.003102	15.78	-0.003231	17.01	-0.003326	15.66	-0.003220	13.08
Koo Wee Rup WSPA	-0.000104	0.07	-0.000128	1.04	-0.000129	-0.16	-0.000137	-0.75	-0.000165	-0.08	-0.000163	0.72	-0.000168	-1.23	-0.000185	-2.45
Moorabbin GMA	-0.005755	9.08	-0.004852	8.98	-0.005784	8.54	-0.005162	7.39	-0.009392	9.09	-0.008540	9.59	-0.010976	8.60	-0.011777	7.00
Nepean GMA	-0.000396	4.39	-0.000439	5.21	-0.000450	4.22	-0.000450	3.30	-0.001082	4.76	-0.001153	5.57	-0.001139	3.87	-0.001095	2.24
Newlingrook GMA	-0.000991	12.60	-0.000891	13.05	-0.001278	14.53	-0.000973	11.51	-0.001898	12.12	-0.002092	13.15	-0.002520	12.92	-0.002342	8.93
Nullawarre WSPA	-0.000018	16.25	-0.000011	16.55	-0.000034	16.81	-0.000035	15.48	-0.000026	16.06	-0.000010	16.11	-0.000041	15.70	-0.000051	13.83
South West Limestone GMA	-0.000008	6.84	-0.000005	6.78	-0.000009	7.09	-0.000008	6.13	-0.000010	6.74	-0.000007	6.58	-0.000011	6.24	-0.000009	4.71
Tarwin GMA	-0.018393	2.01	-0.039670	6.29	-0.032283	2.83	-0.035225	5.33	-0.048721	3.71	-0.040191	5.41	-0.024036	1.14	-0.029731	3.56
Yangery WSPA	-0.000045	0.05	-0.000032	0.10	-0.000048	0.02	-0.000060	-0.50	-0.000051	0.01	-0.000054	-0.01	-0.000076	-0.32	-0.000091	-1.19