

**Carmichael Coal Mine - Groundwater Level Data - July 2025**  
**Artesian Bores**

Bore ID	Formation	Sample Date	Time	Reference Level	Jul-25			
					Digital pressure	Groundwater level		
				mAHD	kPa	m (converted)	mAHD	
Artesian Bores (6.9 kPa = 0.7 m head). m AHD = metres Australia Height Datum								
C034P1	Bandanna Formation	30/07/2025	09:05	228.24	9.60	0.98	229.22	
C832SP	Bandanna Formation	31/07/2025	15:45	224.85	0.21	0.02	224.87	
C18001SP	Clematis Sandstone	29/07/2025	13:10	247.35	33.99	3.47	250.82	
C19014SP	Clematis Sandstone	29/07/2025	14:50	240.13	24.68	2.52	242.65	
HD03A^	Clematis Sandstone	No access						
C034P3	Colinlea Sandstone	30/07/2025	15:40	228.26	10.34	1.05	229.32	
C833SP*	Colinlea Sandstone	31/07/2025	15:30	224.61	1.88	0.19	222.73	
C834SP*	Colinlea Sandstone	31/07/2025	15:40	224.53	1.90	0.19	222.63	
C14005SP	Composite Bore (Tertiary / Joe Joe)	31/07/2025	10:55	219.61	27.17	2.77	222.38	
C14029SP	Composite Bore (Tertiary / Joe Joe)	30/07/2025	16:10	218.17	86.04	8.77	226.94	
C14031SP	Composite Bore (Tertiary / Joe Joe)	No access						
C180120SP	Composite Bore (Tertiary / Joe Joe)	30/07/2025	15:30	223.60	155.25	15.83	239.43	
C180122SP	Composite Bore (Tertiary / Joe Joe)	30/07/2025	16:49	224.14	84.32	8.60	232.74	
C19011SP	Dunda Beds	31/07/2025	16:20	238.87	46.06	4.70	243.56	
C19015SP	Dunda Beds	29/07/2025	14:45	240.37	38.40	3.92	244.28	
C14006SP	Joe Joe Group	31/07/2025	13:15	219.68	29.91	3.05	222.73	
C14008SP	Joe Joe Group	Manual pressure gauge measurement unable to be taken						
C14015SP	Joe Joe Group	30/07/2025	14:30	229.30	69.52	7.09	236.39	
C14016SP	Joe Joe Group	30/07/2025	09:30	222.72	84.45	8.61	231.33	
C14017SP	Joe Joe Group	30/07/2025	14:33	230.43	148.81	15.17	245.60	
C14032SP	Joe Joe Group	No access						
C180119SP	Joe Joe Group	30/07/2025	17:15	224.33	105.76	10.78	235.11	
C180123SP	Joe Joe Group	Requires maintenance						
C914030SPR	Joe Joe Group	30/07/2025	16:00	218.06	89.29	9.11	227.17	
C9180124SPR	Joe Joe Group	30/07/2025	17:00	224.29	104.58	10.66	234.95	
C9180125SPR	Joe Joe Group	30/07/2025	15:35	223.80	160.98	16.42	240.22	
C919016SPR	Rewan Formation	29/07/2025	15:00	240.23	57.89	5.90	246.13	
C9180121SPR	Tertiary	30/07/2025	15:00	227.75	71.45	7.29	235.03	

\* Groundwater level sub-artesian; ^ Inaccessible

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**Sub-artesian Bores**

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					DTW	Groundwater Level
				mAHD	m bRL	mAHD
m AHD = metres Australia Height Datum, m bRL = metres below Reference Level, DTW = depth to water (manual measurement),						
C027P1	Alluvium	1/08/2025	14:30	227.62	5.28	222.34
C029P1	Alluvium	31/07/2025	14:00	226.05	11.42	214.63
C14027SP	Alluvium	31/07/2025	12:20	218.13	14.37	203.76
C14028SP	Alluvium	31/07/2025	10:45	219.63	13.91	205.72
C19001SP	Alluvium	1/08/2025	15:40	227.93	12.40	215.53
C19019SP	Alluvium	1/08/2025	07:45	255.91		Dry
C19021SP	Alluvium	No access				
C19023SP	Alluvium	29/07/2025	16:00	225.91		Dry
HD03B^	Alluvium	No access				
C006P1	Bandanna Formation	1/08/2025	15:10	234.11	35.48	198.63
C007P2	Bandanna Formation	1/08/2025	13:53	238.61	74.40	164.21
C008P2	Bandanna Formation	1/08/2025	17:45	238.81	63.20	175.61
C011P1	Bandanna Formation	1/08/2025	10:00	255.22	24.83	230.39
C014P2	Bandanna Formation	28/07/2025	13:30	256.90	48.06	208.84
C016P2	Bandanna Formation	1/08/2025	10:55	295.08	46.52	248.56
C018P1	Bandanna Formation	1/08/2025	12:50	281.89	36.96	244.93
C018P2	Bandanna Formation	1/08/2025	13:00	282.06	39.88	242.18
C032P2	Bandanna Formation	30/07/2025	11:00	256.92	25.14	231.78
C035P2	Bandanna Formation	30/07/2025	13:30	236.67	5.28	231.39
C19018SP	Bandanna Formation	29/07/2025	8:40	239.56	17.24	222.32
C19027SP^	Bandanna Formation	No access				
C844SP	Bandanna Formation	30/07/2025	14:00	236.46	6.88	229.58
C847SP	Bandanna Formation	30/07/2025	14:30	237.92	6.88	231.04
C9839SPR	Bandanna Formation	31/07/2025	15:00	229.59	3.27	226.32
C14011SP	Clematis Sandstone	28/07/2025	15:50	312.44	69.58	242.86
C14012SP	Clematis Sandstone	29/07/2025	14:50	287.06	44.29	242.77
C14013SP	Clematis Sandstone	29/07/2025	14:15	287.26	44.66	242.60
C14021SP	Clematis Sandstone	31/07/2025	12:15	278.59	32.48	246.11
C14033SP	Clematis Sandstone	1/08/2025	8:15	297.35	46.66	250.69

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**Sub-artesian Bores**

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					DTW	Groundwater Level
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m AHD = metres Australia Height Datum, m bRL = metres below Reference Level, DTW = depth to water (manual measurement),						
C18002SP	Clematis Sandstone	29/07/2025	11:20	249.28	5.24	244.04
C19002SP	Clematis Sandstone	1/08/2025	11:48	306.27	57.39	248.88
C19010SP	Clematis Sandstone	31/07/2025	16:10	239.70	0.75	238.95
HD02	Clematis Sandstone	27/07/2025	11:30	237.42	2.71	234.71
C006P3R	Colinlea Sandstone	1/08/2025	15:00	234.36	69.97	164.39
C011P3	Colinlea Sandstone	1/08/2025	09:30	255.08	27.93	227.15
C018P3	Colinlea Sandstone	1/08/2025	12:15	281.98	39.81	242.17
C024P3	Colinlea Sandstone	1/08/2025	10:30	259.16	30.24	228.92
C180112SP	Colinlea Sandstone	1/08/2025	15:55	227.17	44.76	182.41
C19003SP	Colinlea Sandstone	30/07/2025	09:40	231.36	0.28	231.08
C19004SP	Colinlea Sandstone	30/07/2025	09:55	239.36	7.75	231.61
C19026SP	Colinlea Sandstone	1/08/2025	14:00	239.28	67.55	171.73
C19029SP	Colinlea Sandstone	1/08/2025	16:10	225.45	32.57	192.88
C827SP	Colinlea Sandstone	1/08/2025	15:30	232.65	72.39	160.26
C840SP	Colinlea Sandstone	31/07/2025	15:05	229.85	3.95	225.90
C848SP	Colinlea Sandstone	30/07/2025	14:45	237.84	7.44	230.40
C975SP	Colinlea Sandstone	1/08/2025	11:30	267.81	26.89	240.92
C9849SPR	Colinlea Sandstone	30/07/2025	15:15	237.69	7.39	230.30
C14024SP^	Composite Bore (Clematis SSt / Dunda Beds)	No access				
Mellaluka Spring	Composite	No access				
C022P1	Dunda Beds	1/08/2025	13:30	274.15	27.65	246.50
C027P2	Dunda Beds	1/08/2025	14:50	228.38	1.35	227.03
C14023SP	Dunda Beds	31/07/2025	11:55	278.68	31.49	247.19
C180117SP	Dunda Beds	31/07/2025	14:00	280.67	30.08	250.59
C19007SP	Dunda Beds	1/08/2025	12:40	310.94	67.16	243.78
C012P1	Joe Joe Group	1/08/2025	08:30	247.94	26.76	221.18
C012P2	Joe Joe Group	1/08/2025	09:00	247.87	26.58	221.29
C14002SP	Joe Joe Group	31/07/2025	09:30	226.93	8.32	218.61

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C14003SP	Joe Joe Group	1/08/2025	17:30	218.98	8.53	210.45	
C14004SP	Joe Joe Group	1/08/2025	17:35	218.92	9.15	209.77	
C914001SPR	Joe Joe Group	31/07/2025	08:30	227.25	9.09	218.16	
C14020SP	Moolayember	1/08/2025	8:30	297.37	44.98	252.39	
C18003SP	Moolayember	29/07/2025	11:00	249.08	12.52	236.56	
C008P1	Rewan Formation	1/08/2025	17:02	238.64	28.59	210.05	
C035P1	Rewan Formation	30/07/2025	13:00	236.79	6.24	230.55	
C19008SP	Rewan Formation	29/07/2025	17:30	311.07	65.63	245.44	
C19009SP	Rewan Formation	29/07/2025	15:40	310.47	150.80	159.67	
C19012SP	Rewan Formation	31/07/2025	17:10	239.42	0.19	239.23	
C19017SP	Rewan Formation	29/07/2025	8:35	239.94	57.72	182.22	
C19028SP	Rewan Formation	30/07/2025	10:30	261.62	22.77	238.85	
C555P1	Rewan Formation	31/07/2025	17:00	241.86	11.91	229.95	
C556P1	Rewan Formation	31/07/2025	13:05	261.42	27.50	233.92	
C919013SPR	Rewan Formation	31/07/2025	16:00	238.29	116.04	122.25	
C9553P1R	Rewan Formation	1/08/2025	9:40	294.63	42.44	252.19	
C9838SPR	Rewan Formation	31/07/2025	15:50	229.60	2.34	227.26	
C18010SP	Spring Discharge Clematis SSt	29/07/2025	9:50	238.21	0.22	237.99	
C18011SP	Spring Discharge Clematis SSt	29/07/2025	10:00	240.62	0.32	240.30	
C18012SP	Spring Discharge Clematis SSt	29/07/2025	9:20	239.54	0.27	239.27	
C18013SP	Spring Discharge Clematis SSt	29/07/2025	9:30	239.17	0.41	238.76	
C18014SP	Spring Discharge Clematis SSt	29/07/2025	13:50	235.97	0.34	235.63	
Joshua Spring	Spring Discharge Clematis SSt	Measurement not taken as landholder discharge pipe open					
C025P2	Tertiary	1/08/2025	15:30	228.24	11.27	216.97	
C029P2	Tertiary	31/07/2025	13:40	226.00	6.10	219.90	
C558P1 ^	Tertiary	No access					
C9845SPR	Tertiary	30/07/2025	12:00	256.24	21.66	234.58	
C18004SP	Weathered Tertiary	28/07/2025	16:00	229.47	22.05	207.42	
C18005SP	Weathered Tertiary	28/07/2025	16:40	221.66	9.47	212.19	

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<small>m AHD = metres Australia Height Datum, m bRL = metres below Reference Level,  DTW = depth to water (manual measurement),</small>						
C18006SP	Weathered Tertiary	28/07/2025	15:00	222.27	12.02	210.25
C18007SP ^	Weathered Tertiary	No access				
C18008SP	Weathered Tertiary	1/08/2025	18:25	236.47		Dry
C18009SP	Weathered Tertiary	29/07/2025	16:40	226.75	17.61	209.14
C19020SP	Weathered Tertiary	1/08/2025	07:40	256.54		Dry
C19022SP	Weathered Tertiary	29/07/2025	15:40	225.92	18.60	207.32
<b>Note: ^ Inaccessible</b>						

**Carmichael Coal Mine - Groundwater Level Data - July 2025**  
**VWPs**

VWP ID	Wire number	Formation	Sample date	Ground surface level	Depth below ground	Jul-2025	
						Equivalent metres of head	Relative water level
						m bRL	mAHD
m AHD = metres Australia Height Datum.							
C056VWP	VWP3	Rewan	31/07/2025	283.86	240	194.21	238.07
	VWP2	AB Seam			312	252.49	224.35
	VWP1	CD Sandstone			408	290.60	166.46
C555VWP	VWP2	Rewan	31/07/2025	241.15	260.5	212.27	192.92
	VWP1	AB Seam			346	332.60	227.75
C558VWP	VWP3	AB Seam	No access	250.05	73		
	VWP2	C Seam Interburden			120		
	VWP1	D Seam			178		
C842VWP	VWP3	Rewan	No access	238.89	130		
	VWP2	AB Seam			177.5		
	VWP1	C Seam Interburden			235		
C851VWP	VWP3	Rewan	30/07/2025	244.67	103.7	87.71	228.68
	VWP2	AB Seam			145.7	124.13	223.10
	VWP1	CD Sandstone			209.7	190.86	225.83
C966VWP	VWP4	Rewan	1/08/2025	288.7	258	222.90	253.60
	VWP3	Rewan			302.5	227.25	213.45
	VWP2	AB Seam			348.5	190.51	130.71
	VWP1	AB Seam Interburden			355	183.12	116.82
C968VWP	VWP5	AB Seam	1/08/2025	279.18	244	158.77	193.95
	VWP4	AB Interburden			258	178.69	199.87
	VWP3	C Seam			302.5	252.97	177.15
	VWP2	D Seam			348.5	332.65	263.33
	VWP1	D Seam Interburden			355	358.6	282.82
C9553VWP	VWP3	Rewan	1/08/2025	294.56	265.43	202.14	231.27
	VWP2	AB Seam			348.43	314.46	260.59
	VWP1	D Seam			467.43	403.64	230.77
C9556VWP	VWP3	Rewan	31/07/2025	260.4	216	173.79	218.19
	VWP1	D Seam			410	396.89	247.29
C9836VWP	VWP3	Rewan	No access	236.8	130		
	VWP1	CD Sandstone			296		
C14200VWP	VWP3	Rewan	30/07/2025	247.08	101	100.50	246.58
	VWP2	Rewan			199	184.25	232.33
	VWP1	AB Seam			224	208.51	231.59
C14203VWP	VWP2	Rewan	1/08/2025	230.55	77	114.99	268.54
	VWP1	CD Sandstone			247	239.10	222.65
C14206VWP	VWP2	Rewan	31/07/2025	277.15	355	311.08	233.23
	VWP1	AB Seam			464	440.18	253.33
C14207VWP	VWP2	Rewan	1/08/2025	305.17	400	339.78	244.95
	VWP1	AB Seam			504	412.15	213.32
C19842CVWP	VWP1	Rewan	29/07/2025	239.771	313.5	303.34	229.61
C19031SPVWP	VWP1	Colinlea Sandstone	28/07/2025	238.919	601.4	575.39	212.91