

Carmichael Coal Mine Groundwater Level data (Sub-Artesian Bores) June 2022

Bore ID	Formation	Sample Date	Time	Reference	Jun-22	
				Level	DTW	SWL
				m AHD	m bRL	m AHD
m AHD = metres Australia Height Datum, m bRL = metres below Reference Level, DTW = depth to water (manual measurement), SWL = standing water level						
C027P1	Alluvium	30/06/2022	15:27	227.615	5.43	222.19
C029P1	Alluvium	30/06/2022	16:45	226.048	11.67	214.38
C14027SP	Alluvium	27/06/2022	11:44	218.126	14.49	203.64
C14028SP	Alluvium	27/06/2022	10:48	219.629	14.05	205.58
C19001SP	Alluvium	27/06/2022	12:57	227.93	12.86	215.07
C19019SP	Alluvium	24/06/2022	10:40	255.91	12.43	243.48
C19021SP*	Alluvium	24/06/2022	10:12	265.55	15.00	250.55
C19023SP*	Alluvium	29/06/2022	13:48	225.91	15.00	210.91
C19024SP*	Alluvium	24/06/2022	15:25	254.527	15.00	239.53
C19025SP*	Alluvium	24/06/2022	15:35	248.413	15.00	233.41
HD03B^	Alluvium	26/06/2022	9:00	230.16	0.00	230.16
C006P1	Bandanna Formation	30/06/2022	12:10	234.11	29.65	204.46
C007P2	Bandanna Formation	27/06/2022	15:51	238.61	43.68	194.93
C008P2	Bandanna Formation	30/06/2022	10:48	238.805	43.52	195.29
C011P1	Bandanna Formation	29/06/2022	10:15	255.22	24.9	230.32
C014P2	Bandanna Formation	29/06/2022	13:10	256.90	47.47	209.43
C016P2	Bandanna Formation	28/06/2022	13:20	295.08	46.57	248.51
C018P1	Bandanna Formation	28/06/2022	14:00	281.89	37.02	244.87
C018P2	Bandanna Formation	28/06/2022	14:25	282.06	39.92	242.14
C032P2	Bandanna Formation	25/06/2022	14:04	256.92	24.99	231.93
C035P2	Bandanna Formation	25/06/2022	13:51	236.67	5.12	231.55
C19018SP	Bandanna Formation	26/06/2022	8:51	239.559	17.66	221.90
C19027SP	Bandanna Formation	28/06/2022	16:26	263.34	42.94	220.40
C823SP	Bandanna Formation	27/06/2022	16:33	247.33	64.02	183.31
C844SP	Bandanna Formation	25/06/2022	15:58	236.46	6.66	229.80
C847SP	Bandanna Formation	25/06/2022	10:53	237.92	6.62	231.30
C9839SPR	Bandanna Formation	27/06/2022	15:00	229.59	3.42	226.17
C14011SP	Clematis Sandstone	26/06/2022	11:59	312.435	69.76	242.68
C14012SP	Clematis Sandstone	26/06/2022	10:53	287.063	44.52	242.54
C14013SP	Clematis Sandstone	26/06/2022	11:18	287.256	44.96	242.30
C14021SP	Clematis Sandstone	27/06/2022	13:31	278.591	32.84	245.75
C14033SP	Clematis Sandstone	28/06/2022	9:00	297.35	46.8	250.55
C18002SP	Clematis Sandstone	26/06/2022	10:14	249.28	5.56	243.72
C19002SP	Clematis Sandstone	28/06/2022	15:22	306.266	57.43	248.84
C19010SP	Clematis Sandstone	27/06/2022	8:14	239.70	1.06	238.64
HD02	Clematis Sandstone	26/06/2022	15:00	237.42	2.83	234.59
C006P3R	Colinlea Sandstone	30/06/2022	12:20	234.36	50.55	183.81
C011P3	Colinlea Sandstone	29/06/2022	10:39	255.08	27.9	227.18
C018P3	Colinlea Sandstone	28/06/2022	14:05	281.98	39.85	242.13
C024P3	Colinlea Sandstone	29/06/2022	8:12	259.16	30.25	228.91
C180112SP	Colinlea Sandstone	24/06/2022	15:00	227.17	14.43	212.74
C19003SP	Colinlea Sandstone	25/06/2022	10:00	231.36	0.16	231.20
C19004SP	Colinlea Sandstone	25/06/2022	9:24	239.355	7.74	231.62
C19026SP	Colinlea Sandstone	27/06/2022	15:03	239.28	46.5	192.78
C19029SP	Colinlea Sandstone	27/06/2022	13:26	225.445	29.98	195.47
C827SP	Colinlea Sandstone	24/06/2022	15:10	232.65	47.71	184.94
C840SP	Colinlea Sandstone	26/06/2022	15:05	229.85	4.34	225.51
C848SP	Colinlea Sandstone	25/06/2022	11:22	237.835	7.21	230.63
C975SP	Colinlea Sandstone	29/06/2022	7:37	267.81	26.94	240.87
C9849SPR	Colinlea Sandstone	25/06/2022	12:46	237.69	7.18	230.51
C14024SP	Composite Bore (Clematis SSt / Dunda Beds)	27/06/2022	10:06	333.31	70.88	262.43
Mellaluka Spring	Composite	25/06/2022	13:33	224.40	1.1	223.30
C022P1	Dunda Beds	28/06/2022	16:56	274.15	27.74	246.41
C027P2	Dunda Beds	30/06/2022	15:07	228.38	1.63	226.75
C14023SP	Dunda Beds	27/06/2022	13:08	278.675	31.72	246.96
C180117SP	Dunda Beds	27/06/2022	11:17	280.67	30.15	250.52
C19007SP	Dunda Beds	26/06/2022	15:41	310.94	67.3	243.64
C012P1	Joe Joe Group	29/06/2022	9:01	247.943	26.9	221.04
C012P2	Joe Joe Group	29/06/2022	8:39	247.872	26.76	221.11
C14002SP	Joe Joe Group	27/06/2022	9:48	226.925	8.33	218.60
C14003SP	Joe Joe Group	23/06/2022	10:06	218.977	8.75	210.23

C14004SP	Joe Joe Group	23/06/2022	13:01	218.919	10.44	208.48
C914001SPR	Joe Joe Group	27/06/2022	9:03	227.246	9.07	218.18
C14020SP	Moolayember	28/06/2022	9:43	297.37	45	252.37
C18003SP	Moolayember	26/06/2022	10:46	249.08	12.79	236.29
C008P1	Rewan Formation	30/06/2022	8:51	238.64	27.52	211.12
C035P1	Rewan Formation	25/06/2022	15:19	236.79	6.06	230.73
C19008SP	Rewan Formation	26/06/2022	14:50	311.07	65.81	245.26
C19009SP*	Rewan Formation	26/06/2022	12:36	310.47		310.47
C19012SP	Rewan Formation	26/06/2022	16:40	239.42	0	239.42
C19017SP	Rewan Formation	26/06/2022	9:20	239.935	146.15	93.79
C19028SP	Rewan Formation	25/06/2022	8:12	261.62	22.75	238.87
C555P1	Rewan Formation	30/06/2022	11:24	241.86	12.27	229.59
C556P1	Rewan Formation	27/06/2022	11:55	261.424	27.66	233.76
C919013SPR	Rewan Formation	26/06/2022	17:07	238.289	183.13	55.16
C9553P1R	Rewan Formation	28/06/2022	10:56	294.634	42.46	252.17
C9838SPR	Rewan Formation	27/06/2022	14:43	229.60	2.45	227.15
C18010SP	Spring Discharge Clematis SSt	26/06/2022	15:55	238.213	0.34	237.87
C18011SP	Spring Discharge Clematis SSt	26/06/2022	15:34	240.618	0.5	240.12
C18012SP	Spring Discharge Clematis SSt	26/06/2022	9:33	239.541	0.43	239.11
C18013SP	Spring Discharge Clematis SSt	26/06/2022	9:23	239.167	0.65	238.52
C18014SP	Spring Discharge Clematis SSt	26/06/2022	14:03	235.974	0.53	235.44
Joshua Spring	Spring Discharge Clematis SSt	26/06/2022	11:10	243.26	0.4	242.86
C025P2	Tertiary	27/06/2022	12:40	228.24	11.11	217.13
C029P2	Tertiary	30/06/2022	16:34	226.00	6	220.00
C558P1	Tertiary	29/06/2022	9:41	250.72	34.53	216.19
C9845SPR	Tertiary	25/06/2022	14:26	256.235	21.65	234.59
C18004SP	Weathered Tertiary	29/06/2022	15:55	229.471	22.21	207.26
C18005SP	Weathered Tertiary	30/06/2022	13:29	221.658	10.23	211.43
C18006SP	Weathered Tertiary	30/06/2022	13:58	222.266	12.12	210.15
C18007SP	Weathered Tertiary	30/06/2022	17:15	232.22	27	205.22
C18008SP*	Weathered Tertiary	30/06/2022	17:30	236.473	29	207.47
C18009SP	Weathered Tertiary	29/06/2022	15:16	226.745	17.67	209.08
C19020SP*	Weathered Tertiary	24/06/2022	10:36	256.54	35	221.54
C19022SP	Weathered Tertiary	29/06/2022	14:22	225.920	18.69	207.23

Note: * Dry; ^ Not accessible; * Depth greater than 250 m

Carmichael Coal Mine Groundwater Level data June 2022

Bore ID	Formation	Sample Date	Time	Reference Level	Jun-22		
				m AHD	Digital pressure	Groundwater level	
					kPa	m (converted)	m AHD
Artesian Bores (6.9 kPa = 0.7 m head). m AHD = metres Australia Height Datum							
C034P1	Bandanna Formation	24/06/2022	12:50	228.24	11.07	1.13	229.37
C832SP*	Bandanna Formation	27/06/2022	16:14	224.85	0.37	0.37	224.48
C18001SP	Clematis Sandstone	26/06/2022	12:26	247.35	31.92	3.25	250.60
C19014SP	Clematis Sandstone	26/06/2022	9:48	240.132	21.05	2.15	242.28
HD03A^	Clematis Sandstone	26/06/2022	9:00	230.16	0.00	0.00	230.16
C034P3	Colinlea Sandstone	25/06/2022	16:12	228.264	11.72	1.20	229.46
C833SP*	Colinlea Sandstone	27/06/2022	15:58	224.61	2.40	2.40	222.21
C834SP*	Colinlea Sandstone	27/06/2022	16:18	224.53	2.34	2.34	222.19
C14005SP	Composite Bore (Tertiary / Joe Joe)	24/06/2022	13:58	219.607	28.23	2.88	222.49
C14029SP	Composite Bore (Tertiary / Joe Joe)	25/06/2022	8:24	218.17	88.33	9.01	227.18
C14031SP	Composite Bore (Tertiary / Joe Joe)	25/06/2022	14:11	222.02	123.43	12.59	234.61
C180120SP	Composite Bore (Tertiary / Joe Joe)	25/06/2022	15:30	223.60	156.60	15.97	239.57
C180122SP	Composite Bore (Tertiary / Joe Joe)	25/06/2022	14:50	224.14	84.10	8.58	232.72
C19011SP	Dunda Beds	27/06/2022	7:46	238.868	43.28	4.41	243.28
C19015SP	Dunda Beds	26/06/2022	9:50	240.365	35.18	3.59	243.95
C14006SP	Joe Joe Group	25/06/2022	16:56	219.68	33.18	3.38	223.06
C14008SP	Joe Joe Group	25/06/2022	7:50	220.66	41.12	4.19	224.85
C14015SP	Joe Joe Group	25/06/2022	14:31	229.30	69.02	7.04	236.34
C14016SP	Joe Joe Group	25/06/2022	8:45	222.72	86.36	8.81	231.53
C14017SP	Joe Joe Group	25/06/2022	16:04	230.428	146.68	14.96	245.39
C14032SP	Joe Joe Group	25/06/2022	14:06	222.44	134.10	13.67	236.11
C180119SP	Joe Joe Group	25/06/2022	14:58	224.33	106.72	10.88	235.21
C180123SP	Joe Joe Group	25/06/2022	15:44	227.85	149.35	15.23	243.08
C914030SPR	Joe Joe Group	25/06/2022	8:13	218.06	93.10	9.49	227.55
C914108PTR	Joe Joe Group	25/06/2022	14:03	222.30	134.63	13.73	236.03
C9180124SPR	Joe Joe Group	25/06/2022	15:02	224.29	105.28	10.74	235.03
C9180125SPR	Joe Joe Group	25/06/2022	15:20	223.80	158.97	16.21	240.01
C919016SPR	Rewan Formation	26/06/2022	16:38	240.23	55.84	5.69	245.92
C9180121SPR	Tertiary	25/06/2022	15:51	227.745	132.14	13.47	241.22

* Groundwater level sub-artesian; ^ Inaccessible due to wet weather

Carmichael Coal Mine Groundwater Level data (VWP Bores) June 2022

VWP ID	Wire number	Formation	Sample date	Ground surface level	Depth below ground	Jun-22	
						Equivalent metres of head	Relative water level
				m AHD	m	m BRL	m AHD
m AHD = metres Australia Height Datum.							
C056VWP	VWP3	Rewan	24/06/2022	283.86	240	803.80	847.66
	VWP2	AB Seam			312	253.00	224.90
	VWP1	CD Sandstone			408	285.00	160.90
C555VWP	VWP2	Rewan	30/06/2022	241.15	260.5	217.30	198.00
	VWP1	AB Seam			346	335.30	230.40
C558VWP	VWP3	AB Seam	29/06/2022	250.05	73	38.90	215.97
	VWP2	C Seam Interburden			120	79.00	209.05
	VWP1	D Seam			178	138.00	210.00
C842VWP	VWP3	Rewan	24/06/2022	238.89	130	104.40	213.26
	VWP2	AB Seam			177.5	158.50	219.91
	VWP1	C Seam Interburden			235	215.90	219.80
C851VWP	VWP3	Rewan	25/06/2022	244.67	103.7	88.10	229.05
	VWP2	AB Seam			145.7	125.60	224.60
	VWP1	CD Sandstone			209.7	190.10	225.10
C966VWP	VWP4	Rewan	24/06/2022	288.7	258	222.20	252.93
	VWP3	Rewan			302.5	227.30	213.48
	VWP2	AB Seam			348.5	190.70	130.90
	VWP1	AB Seam Interburden			355	183.50	117.17
C968VWP	VWP5	AB Seam	24/06/2022	279.18	244	156.50	191.66
	VWP4	AB Interburden			258	178.40	199.50
	VWP3	C Seam			302.5	253.00	177.50
	VWP2	D Seam			348.5	332.90	263.55
	VWP1	D Seam Interburden			355	359.1	283.23
C9553VWP	VWP3	Rewan	28/06/2022	294.56	265.43	206.20	235.28
	VWP2	AB Seam			348.43	310.30	256.48
	VWP1	D Seam			467.43	401.40	228.50
C9556VWP	VWP3	Rewan	27/06/2022	260.4	216	174.00	218.36
	VWP1	D Seam			410	395.00	245.40
V9836VWP	VWP3	Rewan	24/06/2022	236.8	130	112.30	219.10
	VWP1	CD Sandstone			296	275.70	216.50
C14200VWP	VWP3	Rewan	25/06/2022	247.08	101	101.20	247.32
	VWP2	Rewan			199	184.40	232.52
	VWP1	AB Seam			224	209.80	232.83
C14203VWP	VWP2	Rewan	24/06/2022	230.55	77	114.30	267.89
	VWP1	CD Sandstone			247	241.40	224.93
C14206VWP	VWP2	Rewan	27/06/2022	277.15	355	312.10	234.20
	VWP1	AB Seam			464	436.30	249.40
C14207VWP	VWP2	Rewan	29/06/2022	305.17	400	340.50	245.72
	VWP1	AB Seam			504	411.30	212.42
C19842CVWP	VWP1	Rewan	26/06/2022	239.771	313.5	304.50	230.78
C19031SPVWP	VWP1	Colinlea Sandstone	26/06/2022	238.919	601.4	576.80	214.34