

**Carmichael Coal Mine Project
Groundwater Level Monitoring Data-April 2021**

Artesian Bores

Bore ID	Formation	Sample Date	Time	Reference Level	Apr-21		
					Digital pressure	Groundwater level	
				m AHD	kPa	m (converted)	m AHD
Artesian Bores (6.9 kPa = 0.7 m head). m AHD = metres Australia Height Datum ** Groundwater level sub artesian.							
C034P1	Bandanna Formation	17/04/2021	10:00	228.24	13.06	1.33	229.57
C832SP**	Bandanna Formation	19/04/2021	16:35	224.85	1.04	0.11	224.74
C18001SP*	Clematis Sandstone			247.35			
C19014SP	Clematis Sandstone	21/04/2021	10:44	240.13	20.01	2.04	242.17
HD03A	Clematis Sandstone	21/04/2021	12:20	230.16	13.9	1.42	231.58
C034P3	Colinlea Sandstone	17/04/2021	13:40	228.264	13.42	1.37	229.63
C833SP**	Colinlea Sandstone	19/04/2021	17:32	224.61	3.09	0.31	224.30
C834SP**	Colinlea Sandstone	19/04/2021	16:45	224.53	2.26	3.09	221.44
C14005SP	Composite Bore (Tertiary / Joe Joe)	17/04/2021	7:35	219.607	28.72	1.90	217.71
C14029SP	Composite Bore (Tertiary / Joe Joe)	17/04/2021	14:16	218.17	89.45	9.11	227.28
C14031SP	Composite Bore (Tertiary / Joe Joe)	15/04/2021	11:45	222.02	123.72	12.61	234.63
C180120SP	Composite Bore (Tertiary / Joe Joe)	15/04/2021	15:15	223.60	153.18	15.61	239.21
C180122SP	Composite Bore (Tertiary / Joe Joe)	15/04/2021	10:53	224.14	84.28	8.59	232.73
C19011SP	Dunda Beds	21/04/2021	17:00	238.87	42.98	4.38	243.25
C19015SP	Dunda Beds	21/04/2021	11:38	240.37	34.49	3.51	243.88
C14006SP	Joe Joe Group	17/04/2021	16:54	219.68	33.87	3.45	223.13
C14008SP	Joe Joe Group	17/04/2021	14:55	220.66	40.25	4.10	224.76
C14015SP	Joe Joe Group	15/04/2021	11:12	229.30	69.84	7.12	236.42
C14016SP	Joe Joe Group	18/04/2021	14:30	222.72	86.27	8.79	231.51
C14017SP	Joe Joe Group	15/04/2021	9:05	230.43	148.56	15.14	245.57
C14032SP	Joe Joe Group	15/04/2021	11:37	222.44	134.29	13.68	236.12
C180119SP	Joe Joe Group	15/04/2021	10:38	224.33	106.66	10.87	235.20
C180123SP	Joe Joe Group	15/04/2021	9:30	227.85	150.38	15.32	243.17
C914030SPR	Joe Joe Group	17/04/2021	14:02	218.06	92.14	9.39	227.45
C914108PTR	Joe Joe Group	15/04/2021	12:05	222.30	134.82	13.74	236.04
C9180124SPR	Joe Joe Group	15/04/2021	10:47	224.29	105.22	10.72	235.01
C9180125SPR	Joe Joe Group	15/04/2021	16:00	223.80	159.78	16.28	240.08
C919016SPR	Rewan Formation	22/04/2021	13:40	240.23	57.91	5.90	246.13
C9180121SPR	Tertiary	15/04/2021	10:10	227.75	132.82	13.53	241.28

Note: * - No access

Sub-Artesian Bores

Bore ID	Formation	Sample Date	Time	Reference Level m AHD	Apr-21	
					DTW m bRL	SWL m AHD
m AHD = metres Australia Height Datum, m bRL = metres below Reference Level						
C027P1	Alluvium	18/04/2021	16:11	227.62	5.67	221.95
C029P1	Alluvium	18/04/2021	14:35	226.048	11.86	214.19
C14027SP	Alluvium	17/04/2021	16:21	218.126	14.5	203.63
C14028SP	Alluvium	18/04/2021	11:41	219.63	14.1	205.53
C19001SP	Alluvium	19/04/2021	13:26	227.93	12.94	214.99
C19019SP	Alluvium	20/04/2021	18:00	255.98	Dry	
C19021SP	Alluvium	20/04/2021	18:05	265.59	Dry	
C19023SP	Alluvium	19/04/2021	7:40	225.92	Dry	
C19024SP	Alluvium	19/04/2021	16:32	254.530	Dry	
C19025SP	Alluvium	19/04/2021	16:26	248.413	Dry	
HD03B	Alluvium	21/04/2021	11:43	230.16	4.45	225.71
C006P1	Bandanna Formation	19/04/2021	12:30	234.11	26.22	207.89
C007P2	Bandanna Formation	21/04/2021	16:38	238.61	48.76	189.85
C008P2	Bandanna Formation	21/04/2021	17:46	238.81	40.19	198.62
C011P1	Bandanna Formation	20/04/2021	9:46	255.22	24.64	230.58
C014P2	Bandanna Formation	21/04/2021	8:25	256.90	47.37	209.53
C016P2	Bandanna Formation	20/04/2021	13:37	295.08	46.56	248.52
C018P1	Bandanna Formation	20/04/2021	13:00	281.89	36.96	244.93
C018P2	Bandanna Formation	20/04/2021	13:14	282.06	39.85	242.21
C032P2	Bandanna Formation	17/04/2021	10:43	256.92	24.87	232.05
C035P2	Bandanna Formation	17/04/2021	12:23	236.67	4.97	231.70
C19018SP	Bandanna Formation	22/04/2021	11:47	239.559	17.64	221.92
C19027SP	Bandanna Formation	20/04/2021	16:20	263.34	43.01	220.33
C823SP	Bandanna Formation	19/04/2021	17:14	247.33	43.54	203.79
C844SP	Bandanna Formation	17/04/2021	12:42	236.46	6.56	229.90
C847SP	Bandanna Formation	19/04/2021	8:58	237.92	6.59	231.33
C9839SPR	Bandanna Formation	18/04/2021	17:30	229.59	3.12	226.47
C14011SP	Clematis Sandstone	21/04/2021	13:28	312.435	69.7	242.74
C14012SP	Clematis Sandstone	21/04/2021	12:32	287.063	44.5	242.56
C14013SP	Clematis Sandstone	21/04/2021	12:51	287.256	44.94	242.32
C14021SP	Clematis Sandstone	18/04/2021	15:40	278.591	32.77	245.82
C14033SP	Clematis Sandstone	20/04/2021	8:36	297.35	46.8	250.55
C18002SP	Clematis Sandstone	21/04/2021	9:32	249.28	5.7	243.58
C19002SP	Clematis Sandstone	20/04/2021	15:00	306.27	57.38	248.89
C19010SP	Clematis Sandstone	21/04/2021	16:48	239.70	1.2	238.50
HD02	Clematis Sandstone	21/04/2021	11:25	237.42	3.04	234.38
C006P3R	Colinlea Sandstone	19/04/2021	12:47	234.36	42.1	192.26
C011P3	Colinlea Sandstone	20/04/2021	10:20	255.08	27.87	227.21
C018P3	Colinlea Sandstone	20/04/2021	13:44	281.98	39.77	242.21
C024P3	Colinlea Sandstone	20/04/2021	9:10	259.16	30.27	228.89
C180112SP	Colinlea Sandstone	19/04/2021	15:56	227.17	57.9	169.27
C19003SP	Colinlea Sandstone	18/04/2021	14:00	231.36	0.13	231.23
C19004SP	Colinlea Sandstone	18/04/2021	11:55	239.355	7.68	231.68
C19026SP	Colinlea Sandstone	23/04/2021	10:52	239.28	46.37	192.91
C19029SP	Colinlea Sandstone	20/04/2021	16:09	225.94	18.97	206.97
C827SP	Colinlea Sandstone	19/04/2021	15:43	232.65	48.49	184.16
C840SP	Colinlea Sandstone	18/04/2021	17:40	229.85	4.09	225.76
C848SP	Colinlea Sandstone	19/04/2021	9:33	237.84	7.16	230.68
C975SP	Colinlea Sandstone	20/04/2021	8:04	267.81	26.9	240.91
C9849SPR	Colinlea Sandstone	19/04/2021	11:10	237.69	7.12	230.57

C14024SP	Composite Bore (Clematis SSt / Dunda	19/04/2021	13:07	333.31	70.77	262.54
Mellaluka Spring	Composite	17/04/2021	15:00	228.00	0.9	227.10
C022P1	Dunda Beds	20/04/2021	13:58	274.15	27.76	246.39
C027P2	Dunda Beds	18/04/2021	15:44	228.38	1.69	226.69
C14023SP	Dunda Beds	18/04/2021	16:17	278.68	31.66	247.02
C180117SP	Dunda Beds	19/04/2021	14:21	280.67	30.03	250.64
C19007SP	Dunda Beds	21/04/2021	14:25	310.94	67.26	243.68
C012P1	Joe Joe Group	20/04/2021	11:37	247.94	26.8	221.14
C012P2	Joe Joe Group	20/04/2021	11:03	247.87	26.75	221.12
C14002SP	Joe Joe Group	18/04/2021	9:46	226.93	8.28	218.65
C14003SP	Joe Joe Group	19/04/2021	9:35	218.98	9.83	209.15
C14004SP	Joe Joe Group	19/04/2021	8:43	218.92	9.75	209.17
C914001SPR	Joe Joe Group	18/04/2021	9:03	227.25	9.04	218.21
C14020SP	Moolayember	20/04/2021	9:00	297.37	44.93	252.44
C18003SP	Moolayember	21/04/2021	9:59	249.08	12.78	236.30
C008P1	Rewan Formation	21/04/2021	17:36	238.64	27.12	211.52
C035P1	Rewan Formation	17/04/2021	11:48	236.79	5.92	230.87
C19008SP	Rewan Formation	21/04/2021	16:02	311.07	65.85	245.22
C19009SP*	Rewan Formation	22/04/2021	15:38	310.47		
C19012SP	Rewan Formation	23/04/2021	8:28	239.42	0	239.42
C19017SP	Rewan Formation	22/04/2021	13:02	239.935	226.6	13.34
C19028SP	Rewan Formation	17/04/2021	8:44	261.62	22.7	238.92
C555P1	Rewan Formation	19/04/2021	15:12	241.86	12.23	229.63
C556P1	Rewan Formation	19/04/2021	15:04	261.42	27.54	233.88
C919013SPR	Rewan Formation	23/04/2021	7:36	238.59	245.57	-6.98
C9553P1R	Rewan Formation	20/04/2021	10:10	294.634	42.41	252.22
C9838SPR	Rewan Formation	18/04/2021	17:20	229.60	2.35	227.25
C18010SP	Spring Discharge Clematis SSt	21/04/2021	13:24	238.21	0.5	237.71
C18011SP	Spring Discharge Clematis SSt	21/04/2021	12:54	240.62	0.5	240.12
C18012SP	Spring Discharge Clematis SSt	21/04/2021	8:43	239.54	0.52	239.02
C18013SP	Spring Discharge Clematis SSt	21/04/2021	8:30	239.17	0.65	238.52
C18014SP	Spring Discharge Clematis SSt	21/04/2021	14:39	235.97	2.26	233.71
Joshua Spring	Spring Discharge Clematis SSt	21/04/2021	10:00	243.26	0.35	242.91
C025P2	Tertiary	18/04/2021	12:54	228.24	11	217.24
C029P2	Tertiary	18/04/2021	14:20	226.00	6.06	219.94
C558P1	Tertiary	20/04/2021	12:45	250.72	34.54	216.18
C9845SPR	Tertiary	17/04/2021	9:39	256.24	21.56	234.68
C18004SP	Weathered Tertiary	19/04/2021	11:39	229.471	22.22	207.25
C18005SP	Weathered Tertiary	18/04/2021	17:42	221.66	10.69	210.97
C18006SP	Weathered Tertiary	18/04/2021	18:08	222.27	12.83	209.44
C18007SP	Weathered Tertiary	23/04/2021	11:45	232.22	Dry	
C18008SP	Weathered Tertiary	23/04/2021	11:00	236.48	Dry	
C18009SP	Weathered Tertiary	19/04/2021	10:50	226.74	17.7	209.04
C19020SP	Weathered Tertiary	20/04/2021	17:50	256.54	Dry	
C19022SP	Weathered Tertiary	19/04/2021	7:36	225.845	18.72	207.13

Note-*: Bore not dippable; Water Level > 250 m BGL

VWP Bores

VWP ID	Wire number	Formation	Sample date	Time	Ground surface level	Depth below ground	Apr-21	
							Equivalent metres of head	Relative water level
							m AHD	m
m AHD = metres Australia Height Datum. *Sensor malfunction - incorrect reading								
C056VWP	VWP3	Rewan	20/04/2021	14:33:00	283.86	240	195.30	239.19
	VWP2	AB Seam				312	253.40	225.22
	VWP1	CD Sandstone				408	288.20	164.10
C555VWP	VWP2	Rewan	19/04/2021	15:05:00	241.15	241.15	220.10	200.71
	VWP1	AB Seam				241.15	335.70	230.90
C558VWP	VWP3	AB Seam	20/04/2021	12:35:00	250.05	73	38.70	168.74
	VWP2	C Seam Interburden				120	77.60	207.69
	VWP1	D Seam				250.05	137.90	209.90
C842VWP	VWP3	Rewan	19/04/2021	15:34:00	238.89	130	104.90	213.76
	VWP2	AB Seam C Seam				177.5	158.60	219.98
	VWP1	Interburden				235	216.40	220.30
C851VWP	VWP3	Rewan	19/04/2021	11:32:00	244.67	103.7	88.00	228.94
	VWP2	AB Seam				145.7	125.90	224.90
	VWP1	CD Sandstone				209.7	190.20	225.20
C966VWP	VWP4	Rewan	20/04/2021	14:22:00	288.7	258	221.40	252.05
	VWP3	Rewan				302.5	227.10	257.80
	VWP2	AB Seam				348.5	190.60	221.30
	VWP1	AB Seam Interburden				355	183.50	214.18
C968VWP	VWP5	AB Seam	20/04/2021	14:49:00	279.18	244	157.21	192.39
	VWP4	AB Interburden				258	178.09	199.27
	VWP3	C Seam				302.5	253.02	274.20
	VWP2	D Seam				348.5	332.83	354.01
	VWP1	D Seam Interburden				355	359.0	380.16
C9553VWP	VWP3	Rewan	20/04/2021	9:30:00	294.56	265.43	208.70	237.84
	VWP2	AB Seam				348.43	307.60	253.70
	VWP1	D Seam				467.43	400.30	227.40
C9556VWP	VWP3	Rewan	19/04/2021	14:59:00	260.4	216	174.20	218.57
	VWP2	AB Seam				316	0.30	-55.30
	VWP1	D Seam				410	394.20	244.60
V9836VWP	VWP3	Rewan	19/04/2021	15:50:00	236.8	130	112.60	219.38
	VWP1	CD Sandstone				296	276.00	216.80
C14200VWP	VWP3	Rewan	17/04/2021	13:55:00	247.08	101	210.30	233.38
	VWP2	Rewan				199	184.70	232.77
	VWP1	AB Seam				224	102.00	248.04
C14203VWP	VWP2	Rewan	19/04/2021	18:03:00	230.55	77	114.00	267.54
	VWP1	CD Sandstone				247	242.00	225.54
C14206VWP	VWP2	Rewan	18/04/2021	15:44:00	277.15	355	312.90	235.00
C14207VWP	VWP2	Rewan	20/04/2021	14:18:00	305.17	400	340.80	245.94
	VWP1	AB Seam				504	412.70	213.90