

Supplemental Material for “Revised Wonoka isotopic anomaly in South Australia and Late Ediacaran mass extinction.”

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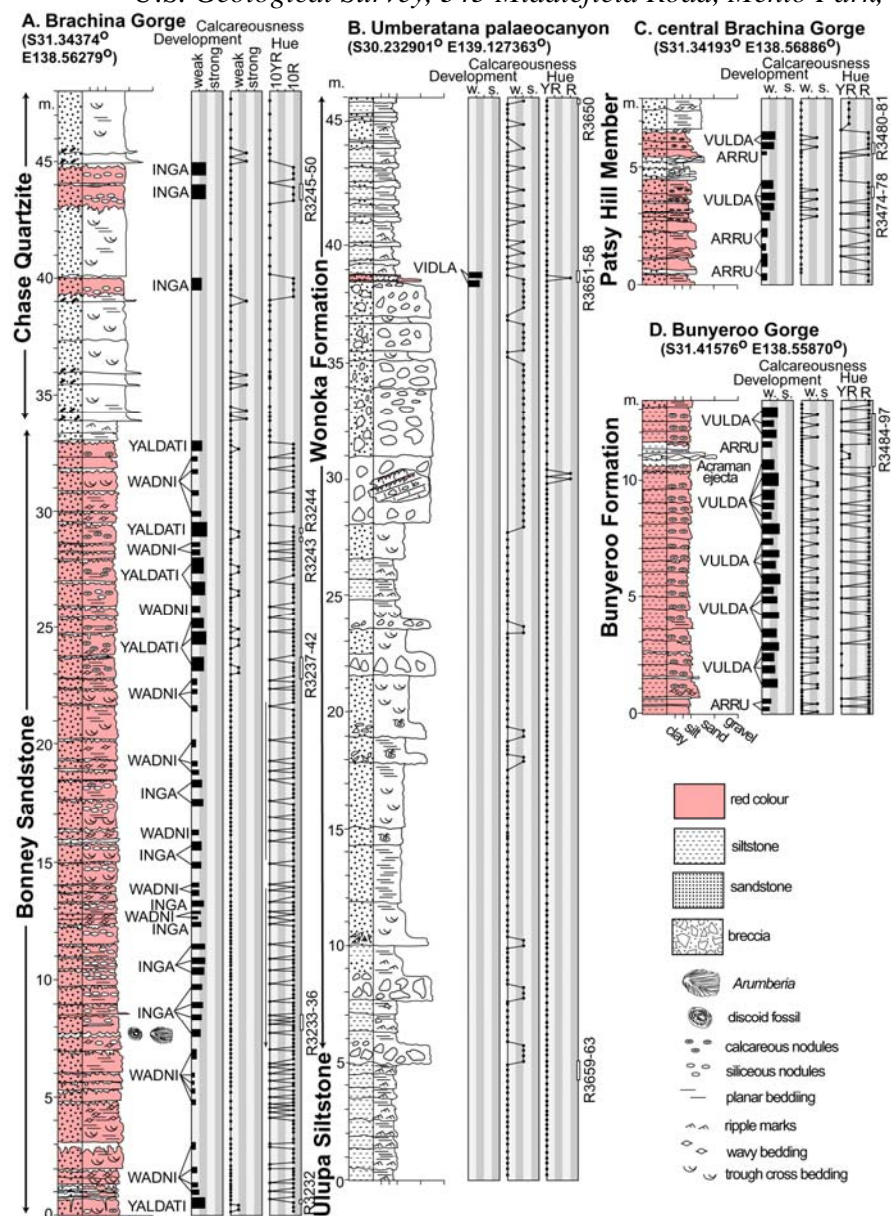


Fig. S1. Measured sections of palaeosols in the Bonney Sandstone, and Wonoka and Bunyeroo Formations, showing position and development of palaeosols, calcreousness, and Munsell hue. Scales of degree of development and calcreousness are from Retallack (1997).

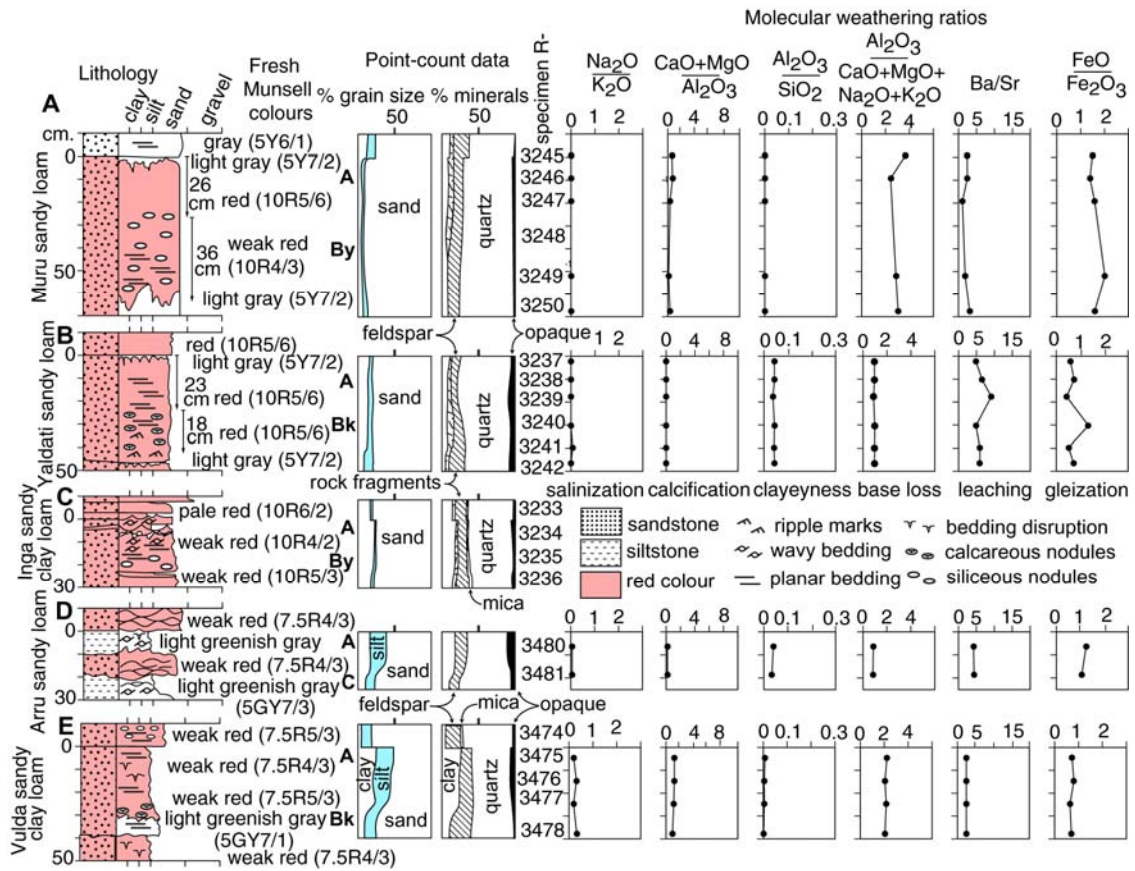


Fig. S2. Field observations, interpreted soil horizons, grain size and mineral content by point counting, and molecular weathering ratios from XRF chemical analysis of Vulda and Arru pedotypes in upper Wonoka Formation in Brachina Gorge, and Inga, Muru and Yaldati pedotypes of the Bonney Sandstone in Brachina Gorge.

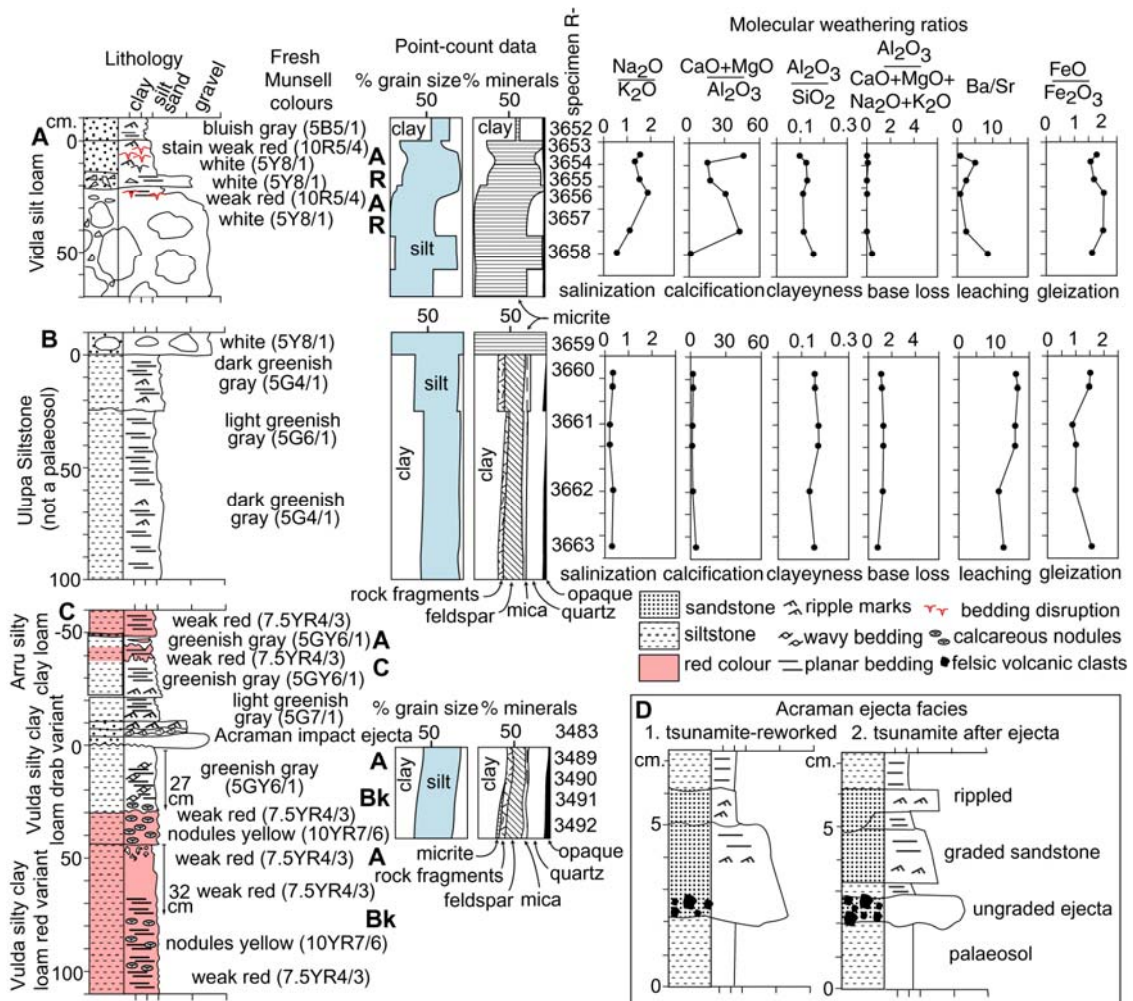


Fig. S3. Field observations, interpreted soil horizons, grain size and mineral content by point counting, and molecular weathering ratios from XRF chemical analysis of Vulda and Arru pedotypes in Bunyeroo Formation at Acraman impact breccia in Bunyeroo Gorge, and the Vidla pedotype of the Wonoka Formation atop palaeocanyon breccia northeast of Umberatana Station, compared with graded beds of the Ulupa Siltstone northwest of Umberatana Station.

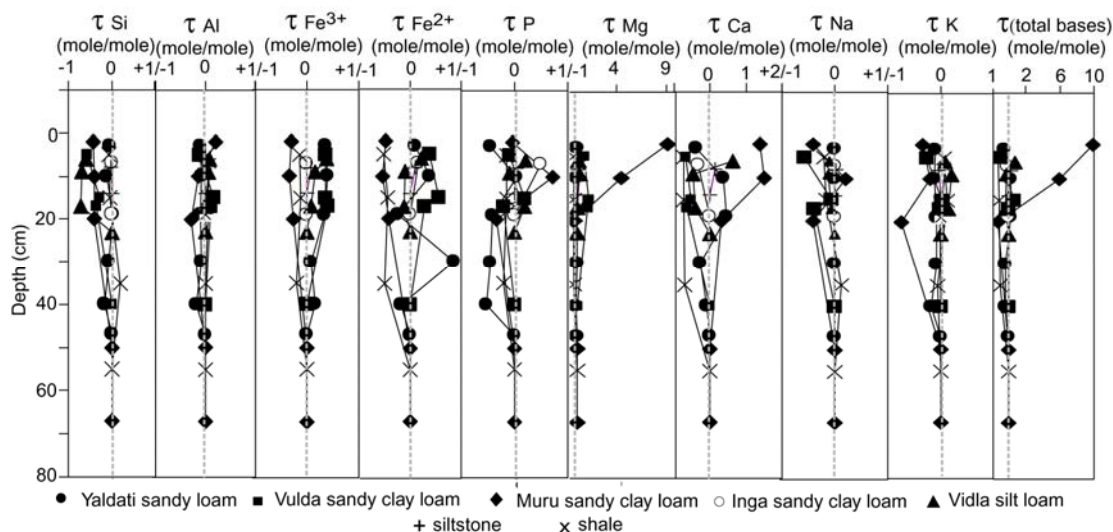


Fig. S4. Depth functions of elemental mass transfer with respect to an element assumed stable (Ti), following Brimhall *et al.* 1992) for Edicaran palaeosols of South Australia.

Table S1. Calcic horizon metrics of Flinders Ranges palaeosols.

Locality	Formation	Level (m)	Burial (km)	Age (Ma)	Pedotype	Bk depth (cm)	Bk thickness (cm)	Nodule size (cm)
Ten Mile Creek	Grindstone Range Sst.	5598.7	3.501	483.87	Adla	29	10	2.0
Ten Mile Creek	Grindstone Range Sst.	5593.1	3.507	483.94	Adla	23	8	2.0
Ten Mile Creek	Grindstone Range Sst.	5592.8	3.507	483.94	Adla	24	10	3.0
Ten Mile Creek	Grindstone Range Sst.	5584.9	3.515	484.04	Adla	30	7	1.2
Ten Mile Creek	Grindstone Range Sst.	5578.2	3.522	484.12	Adla	29	10	0.9
Ten Mile Creek	Grindstone Range Sst.	5572.0	3.528	484.20	Adla	24	6	0.8
Ten Mile Creek	Grindstone Range Sst.	5568.4	3.532	484.24	Adla	27	9	2.0
Balcoracana Creek	Grindstone Range Sst.	5580.8	3.519	484.51	Adla	31	15	3.0
Balcoracana Creek	Grindstone Range Sst.	5575.0	3.525	484.58	Adla	25	8	0.9
Balcoracana Creek	Grindstone Range Sst.	5571.4	3.529	484.62	Adla	23	5	0.7
Balcoracana Creek	Grindstone Range Sst.	5570.0	3.530	484.64	Adla	36	15	0.8
Balcoracana Creek	Grindstone Range Sst.	5568.5	3.532	484.66	Adla	33	12	1.2
Balcoracana Creek	Grindstone Range Sst.	5563.0	3.537	484.73	Adla	25	6	0.8
Balcoracana Creek	Grindstone Range Sst.	5560.4	3.540	484.76	Adla	29	8	1.1
Balcoracana Creek	Grindstone Range Sst.	5556.2	3.544	484.81	Adla	36	11	0.8
Balcoracana Creek	Grindstone Range Sst.	5550.3	3.550	484.89	Adla	33	12	1.0
Ten Mile Creek	Grindstone Range Sst.	5500.0	3.600	485.09	Natala	52	13	1.0
Balcoracana Creek	Pantapinna Sandstone	5494.0	3.606	485.58	Viparri	55	18	2.0
Ten Mile Creek	Pantapinna Sandstone	5303.0	3.797	487.53	Adla	31	7	4.0
Ten Mile Creek	Pantapinna Sandstone	5303.0	3.797	487.53	Adla	29	8	2.0
Ten Mile Creek	Pantapinna Sandstone	5302.0	3.798	487.55	Adla	32	10	3.0
Ten Mile Creek	Pantapinna Sandstone	5042.1	4.058	490.77	Adla	26	9	0.8
Ten Mile Creek	Pantapinna Sandstone	5041.4	4.059	490.78	Adla	25	8	0.9
Ten Mile Creek	Pantapinna Sandstone	5040.4	4.060	490.79	Adla	30	12	1.2
Ten Mile Creek	Pantapinna Sandstone	5034.5	4.065	490.86	Adla	31	15	2.4
Ten Mile Creek	Pantapinna Sandstone	5033.6	4.066	490.87	Adla	26	10	0.4
Ten Mile Creek	Pantapinna Sandstone	5030.3	4.070	490.91	Adla	32	12	1.3

Ten Mile Creek	Pantapinna Sandstone	5027.5	4.073	490.95	Adla	24	8	1.1
Ten Mile Creek	Pantapinna Sandstone	5024.0	4.076	490.99	Adla	32	15	0.8
Ten Mile Creek	Pantapinna Sandstone	5022.0	4.078	491.02	Adla	31	12	0.9
Ten Mile Creek	Pantapinna Sandstone	5021.1	4.079	491.03	Adla	26	7	1.1
Ten Mile Creek	Pantapinna Sandstone	5020.5	4.080	491.04	Adla	25	6	0.7
Ten Mile Creek	Pantapinna Sandstone	5019.4	4.081	491.05	Adla	30	15	1.0
Ten Mile Creek	Pantapinna Sandstone	5016.8	4.083	491.08	Adla	36	10	1.0
Ten Mile Creek	Pantapinna Sandstone	5013.3	4.087	491.13	Adla	27	6	0.6
Ten Mile Creek	Pantapinna Sandstone	5012.9	4.087	491.13	Adla	26	8	0.5
Ten Mile Creek	Pantapinna Sandstone	5012.2	4.088	491.14	Adla	32	12	1.0
Ten Mile Creek	Pantapinna Sandstone	5008.9	4.091	491.18	Adla	29	11	2.0
Ten Mile Creek	Pantapinna Sandstone	5008.0	4.092	491.19	Adla	27	7	1.0
Ten Mile Creek	Pantapinna Sandstone	5007.0	4.093	491.20	Adla	24	8	1.0
Ten Mile Creek	Pantapinna Sandstone	5005.6	4.094	491.22	Adla	30	10	1.0
Ten Mile Creek	Pantapinna Sandstone	5004.5	4.095	491.23	Adla	29	8	2.0
Ten Mile Creek	Pantapinna Sandstone	4928.1	4.172	492.18	Adla	32	10	2.0
Ten Mile Creek	Pantapinna Sandstone	4904.7	4.195	492.47	Adla	28	7	1.0
Ten Mile Creek	Pantapinna Sandstone	4902.4	4.198	492.50	Adla	32	15	2.0
Ten Mile Creek	Pantapinna Sandstone	4901.4	4.199	492.51	Adla	29	12	1.0
Ten Mile Creek	Pantapinna Sandstone	4750.0	4.350	494.39	Adla	32	18	2.0
Ten Mile Creek	Pantapinna Sandstone	4689.3	4.411	495.14	Adla	24	6	0.6
Ten Mile Creek	Pantapinna Sandstone	4688.7	4.411	495.15	Adla	21	8	0.4
Ten Mile Creek	Pantapinna Sandstone	4687.6	4.412	495.16	Adla	32	12	1.1
Ten Mile Creek	Pantapinna Sandstone	4672.7	4.427	495.35	Adla	21	5	0.6
Ten Mile Creek	Pantapinna Sandstone	4670.8	4.429	495.37	Adla	23	6	0.5
Ten Mile Creek	Pantapinna Sandstone	4670.2	4.430	495.38	Adla	31	10	1.0
Ten Mile Creek	Pantapinna Sandstone	4646.6	4.453	495.67	Adla	30	14	2.0
Ten Mile Creek	Pantapinna Sandstone	4643.5	4.456	495.71	Adla	27	6	1.0
Ten Mile Creek	Pantapinna Sandstone	4641.4	4.459	495.74	Adla	31	15	2.0
Ten Mile Creek	Pantapinna Sandstone	4627.8	4.472	495.91	Adla	29	10	1.0
Ten Mile Creek	Pantapinna Sandstone	4616.8	4.483	496.04	Adla	33	12	2.0
Ten Mile Creek	Pantapinna Sandstone	4300.0	4.800	499.97	Adla	39	10	1.0
Ten Mile Creek	Pantapinna Sandstone	4068.6	5.031	502.84	Adla	29	10	1.1
Ten Mile Creek	Pantapinna Sandstone	4063.4	5.037	502.90	Adla	26	8	0.9
Ten Mile Creek	Pantapinna Sandstone	4062.9	5.037	502.91	Adla	33	14	1.0
Ten Mile Creek	Pantapinna Sandstone	4061.5	5.039	502.93	Adla	28	8	0.8
Ten Mile Creek	Pantapinna Sandstone	4056.8	5.043	502.99	Adla	32	12	0.6
Ten Mile Creek	Pantapinna Sandstone	4039.6	5.060	503.20	Adla	29	9	0.7
Ten Mile Creek	Pantapinna Sandstone	4036.1	5.064	503.24	Adla	27	8	0.8
Ten Mile Creek	Pantapinna Sandstone	4033.7	5.066	503.27	Adla	26	10	0.9
Ten Mile Creek	Pantapinna Sandstone	4032.6	5.067	503.29	Adla	32	14	1.1
Ten Mile Creek	Pantapinna Sandstone	4026.8	5.073	503.36	Adla	27	8	0.8
Ten Mile Creek	Pantapinna Sandstone	4026.0	5.074	503.37	Adla	32	10	1.2
Ten Mile Creek	Pantapinna Sandstone	4024.5	5.076	503.39	Adla	29	12	1.0
Ten Mile Creek	Pantapinna Sandstone	4023.7	5.076	503.40	Adla	25	6	0.8
Ten Mile Creek	Pantapinna Sandstone	4017.9	5.082	503.47	Adla	31	8	0.5
Ten Mile Creek	Pantapinna Sandstone	4003.5	5.096	503.65	Adla	30	10	1.0
Ten Mile Creek	Pantapinna Sandstone	4001.2	5.099	503.68	Natala	52	7	2.0
Ten Mile Creek	Pantapinna Sandstone	3895.0	5.205	504.99	Warru	37	19	3.0
Balcoracana Creek	Pantapinna Sandstone	3908.4	5.192	505.25	Nalata	54	33	2.2

Balcoracana Creek	Balcoracana Form.	3889.6	5.210	505.48	Warru	24	10	0.8
Balcoracana Creek	Balcoracana Form.	3888.4	5.212	505.49	Warru	25	8	0.6
Balcoracana Creek	Balcoracana Form.	3883.9	5.216	505.55	Warru	29	11	0.4
Balcoracana Creek	Balcoracana Form.	3879.4	5.221	505.61	Warru	31	11	0.7
Balcoracana Creek	Balcoracana Form.	3876.2	5.224	505.65	Warru	24	9	0.6
Balcoracana Creek	Balcoracana Form.	3874.9	5.225	505.66	Warru	26	10	0.5
Balcoracana Creek	Balcoracana Form.	3869.0	5.231	505.73	Warru	32	15	2.0
Balcoracana Creek	Balcoracana Form.	3845.6	5.254	506.02	Viparri	51	32	1.1
Balcoracana Creek	Balcoracana Form.	3844.0	5.256	506.04	Warru	33	15	0.9
Balcoracana Creek	Balcoracana Form.	3754.7	5.345	507.15	Warru	24	10	0.6
Balcoracana Creek	Balcoracana Form.	3751.0	5.349	507.20	Warru	31	15	0.7
Balcoracana Creek	Balcoracana Form.	3747.7	5.352	507.24	Warru	29	8	0.6
Balcoracana Creek	Balcoracana Form.	3747.1	5.353	507.25	Warru	34	16	1.0
Balcoracana Creek	Balcoracana Form.	3739.6	5.360	507.34	Viparri	42	23	0.9
Balcoracana Creek	Balcoracana Form.	3736.1	5.364	507.38	Viparri	46	27	1.0
Balcoracana Creek	Balcoracana Form.	3731.9	5.368	507.43	Viparri	51	26	1.0
Balcoracana Creek	Balcoracana Form.	3718.0	5.382	507.61	Viparri	49	33	1.0
Balcoracana Creek	Balcoracana Form.	3710.2	5.390	507.70	Warru	33	15	0.8
Balcoracana Creek	Balcoracana Form.	3707.3	5.393	507.74	Viparri	45	26	1.0
Balcoracana Creek	Balcoracana Form.	3695.5	5.404	507.89	Viparri	51	36	2.0
Ten Mile Creek	Balcoracana Form.	3630.5	5.470	508.27	Warru	32	18	3.0
Ten Mile Creek	Balcoracana Form.	3624.4	5.476	508.35	Viparri	52	50	2.0
Ten Mile Creek	Balcoracana Form.	3623.5	5.477	508.36	Viparri	48	40	1.0
Ten Mile Creek	Balcoracana Form.	3622.0	5.478	508.38	Warru	36	20	2.0
Ten Mile Creek	Balcoracana Form.	3621.7	5.478	508.38	Warru	39	35	4.0
Ten Mile Creek	Balcoracana Form.	3621.1	5.479	508.39	Warru	41	30	3.0
Ten Mile Creek	Balcoracana Form.	3615.5	5.485	508.46	Warru	32	15	1.5
Ten Mile Creek	Balcoracana Form.	3612.2	5.488	508.50	Warru	36	20	0.7
Ten Mile Creek	Balcoracana Form.	3612.0	5.488	508.50	Warru	37	22	0.8
Ten Mile Creek	Moodlatana Formation	3602.3	5.498	508.62	Warru	39	20	0.4
Ten Mile Creek	Moodlatana Formation	3602.2	5.498	508.62	Warru	39	23	0.4
Ten Mile Creek	Moodlatana Formation	3601.8	5.498	508.63	Natala	41	22	0.5
Ten Mile Creek	Moodlatana Formation	3601.2	5.499	508.64	Viparri	49	40	3.0
Ten Mile Creek	Moodlatana Formation	3600.3	5.500	508.65	Viparri	50	35	2.0
Ten Mile Creek	Moodlatana Formation	3556.1	5.544	509.19	Warru	29	12	0.7
Ten Mile Creek	Moodlatana Formation	3554.8	5.545	509.21	Warru	26	7	0.4
Ten Mile Creek	Moodlatana Formation	3550.0	5.550	509.27	Warru	23	8	2.4
Ten Mile Creek	Moodlatana Formation	3549.2	5.551	509.28	Warru	24	9	3.5
Ten Mile Creek	Moodlatana Formation	3544.1	5.556	509.34	Warru	28	13	0.8
Ten Mile Creek	Moodlatana Formation	3542.6	5.557	509.36	Warru	33	15	2.0
Ten Mile Creek	Moodlatana Formation	3534.6	5.565	509.46	Warru	35	10	0.5
Ten Mile Creek	Moodlatana Formation	3534.1	5.566	509.47	Viparri	56	38	1.8
Ten Mile Creek	Moodlatana Formation	3533.1	5.567	509.48	Warru	32	15	0.8
Ten Mile Creek	Moodlatana Formation	3532.3	5.568	509.49	Warru	38	12	1.5
Ten Mile Creek	Moodlatana Formation	3531.9	5.568	509.49	Viparri	57	42	1.3
Ten Mile Creek	Moodlatana Formation	3530.2	5.570	509.52	Warru	27	16	2.4
Ten Mile Creek	Moodlatana Formation	3529.9	5.570	509.52	Warru	25	11	2.0
Ten Mile Creek	Moodlatana Formation	3529.2	5.571	509.53	Warru	26	10	1.0
Ten Mile Creek	Moodlatana Formation	3528.3	5.572	509.54	Warru	24	12	3.0
Ten Mile Creek	Moodlatana Formation	3525.6	5.574	509.57	Warru	28	5	5.0

Ten Mile Creek	Moodlatana Formation	3525.4	5.575	509.57	Warru	29	15	1.3
Ten Mile Creek	Moodlatana Formation	3524.8	5.575	509.58	Warru	24	6	6.0
Ten Mile Creek	Moodlatana Formation	3516.4	5.584	509.69	Warru	38	12	2.0
Ten Mile Creek	Moodlatana Formation	3515.5	5.585	509.70	Warru	27	9	1.0
Ten Mile Creek	Moodlatana Formation	3482.4	5.618	510.11	Warru	28	13	4.0
Ten Mile Creek	Moodlatana Formation	3478.6	5.621	510.16	Warru	29	10	2.0
Ten Mile Creek	Moodlatana Formation	3477.8	5.622	510.16	Warru	35	12	3.0
Ten Mile Creek	Moodlatana Formation	3476.3	5.624	510.18	Warru	36	10	2.0
Ten Mile Creek	Moodlatana Formation	3473.6	5.626	510.22	Warru	30	15	2.0
Ten Mile Creek	Moodlatana Formation	3469.7	5.630	510.27	Warru	31	14	2.0
Ten Mile Creek	Moodlatana Formation	3464.1	5.636	510.34	Warru	29	10	3.0
Ten Mile Creek	Moodlatana Formation	3461.2	5.639	510.37	Warru	38	10	2.0
Ten Mile Creek	Moodlatana Formation	3458.4	5.642	510.41	Warru	36	12	2.0
Ten Mile Creek	Moodlatana Formation	3381.2	5.719	511.36	Warru	24	14	0.8
Ten Mile Creek	Moodlatana Formation	3373.2	5.727	511.46	Warru	28	11	1.0
Ten Mile Creek	Moodlatana Formation	3362.9	5.737	511.59	Warru	32	12	2.0
Ten Mile Creek	Moodlatana Formation	3360.7	5.739	511.62	Warru	32	15	0.6
Ten Mile Creek	Moodlatana Formation	3359.9	5.740	511.63	Warru	26	8	0.7
Ten Mile Creek	Moodlatana Formation	3355.4	5.745	511.68	Warru	23	10	0.6
Ten Mile Creek	Moodlatana Formation	3349.8	5.750	511.75	Warru	24	12	0.8
Ten Mile Creek	Moodlatana Formation	3347.0	5.753	511.79	Warru	34	14	1.1
Ten Mile Creek	Moodlatana Formation	3344.8	5.755	511.81	Warru	32	13	0.8
Ten Mile Creek	Moodlatana Formation	3342.4	5.758	511.84	Warru	21	8	0.6
Ten Mile Creek	Moodlatana Formation	3341.6	5.758	511.85	Warru	31	12	0.8
Ten Mile Creek	Moodlatana Formation	3336.2	5.764	511.92	Warru	21	10	0.7
Ten Mile Creek	Moodlatana Formation	3329.5	5.770	512.00	Warru	29	12	0.8
Ten Mile Creek	Moodlatana Formation	3325.2	5.775	512.06	Warru	29	12	0.3
Ten Mile Creek	Moodlatana Formation	3323.1	5.777	512.08	Warru	31	17	0.9
Ten Mile Creek	Moodlatana Formation	3317.4	5.783	512.15	Warru	32	15	0.8
Ten Mile Creek	Moodlatana Formation	3313.6	5.786	512.20	Warru	25	12	1.2
Ten Mile Creek	Moodlatana Formation	3309.7	5.790	512.25	Warru	26	8	0.7
Ten Mile Creek	Moodlatana Formation	3306.7	5.793	512.29	Warru	31	11	0.6
Ten Mile Creek	Moodlatana Formation	3305.4	5.795	512.30	Warru	36	10	0.5
Ten Mile Creek	Moodlatana Formation	3302.0	5.798	512.35	Warru	23	6	0.3
Ten Mile Creek	Moodlatana Formation	3298.0	5.802	512.40	Warru	26	8	0.3
Ten Mile Creek	Moodlatana Formation	3297.3	5.803	512.40	Warru	24	6	0.3
Ten Mile Creek	Moodlatana Formation	3294.6	5.805	512.44	Warru	23	5	0.4
Ten Mile Creek	Moodlatana Formation	3289.3	5.811	512.50	Warru	27	8	0.5
Ten Mile Creek	Moodlatana Formation	3287.9	5.812	512.52	Warru	37	11	0.4
Ten Mile Creek	Moodlatana Formation	3284.7	5.815	512.56	Warru	32	10	0.3
Ten Mile Creek	Moodlatana Formation	3280.5	5.819	512.61	Warru	28	8	0.5
Ten Mile Creek	Moodlatana Formation	3280.1	5.820	512.62	Warru	34	12	1.0
Ten Mile Creek	Moodlatana Formation	3278.5	5.821	512.64	Viparri	58	47	2.0
Ten Mile Creek	Moodlatana Formation	3272.8	5.827	512.71	Warru	31	18	1.0
Ten Mile Creek	Moodlatana Formation	3271.9	5.828	512.72	Warru	34	12	1.0
Ten Mile Creek	Moodlatana Formation	3269.9	5.830	512.74	Viparri	41	22	2.0
Ten Mile Creek	Moodlatana Formation	3261.1	5.839	512.85	Viparri	56	41	2.0
Ten Mile Creek	Moodlatana Formation	3243.6	5.856	513.07	Warru	25	18	1.0
Ten Mile Creek	Moodlatana Formation	3242.3	5.858	513.09	Warru	29	12	1.0
Ten Mile Creek	Moodlatana Formation	3241.6	5.858	513.09	Warru	41	21	21.0

Ten Mile Creek	Moodlatana Formation	3239.1	5.861	513.13	Warru	30	15	0.8
Ten Mile Creek	Moodlatana Formation	3236.2	5.864	513.16	Warru	22	7	0.5
Ten Mile Creek	Moodlatana Formation	3235.7	5.864	513.17	Warru	23	8	0.5
Ten Mile Creek	Moodlatana Formation	3232.9	5.867	513.20	Warru	32	15	1.3
Ten Mile Creek	Moodlatana Formation	3231.0	5.869	513.23	Warru	22	7	0.3
Ten Mile Creek	Moodlatana Formation	3230.2	5.870	513.24	Warru	26	10	0.4
Ten Mile Creek	Moodlatana Formation	3226.9	5.873	513.28	Warru	36	18	0.5
Ten Mile Creek	Moodlatana Formation	3222.8	5.877	513.33	Warru	25	13	0.7
Ten Mile Creek	Moodlatana Formation	3221.5	5.879	513.34	Warru	33	19	0.8
Ten Mile Creek	Moodlatana Formation	3216.9	5.883	513.40	Warru	22	8	0.4
Ten Mile Creek	Moodlatana Formation	3216.3	5.884	513.41	Warru	23	7	0.4
Ten Mile Creek	Moodlatana Formation	3214.2	5.886	513.43	Warru	34	19	0.3
Ten Mile Creek	Moodlatana Formation	3212.6	5.887	513.45	Warru	23	10	0.9
Ten Mile Creek	Moodlatana Formation	3211.6	5.888	513.47	Warru	25	12	0.8
Ten Mile Creek	Moodlatana Formation	3210.2	5.890	513.48	Warru	37	18	0.4
Ten Mile Creek	Moodlatana Formation	3207.3	5.893	513.52	Warru	27	10	0.5
Ten Mile Creek	Moodlatana Formation	3205.5	5.894	513.54	Warru	29	12	1.0
Ten Mile Creek	Moodlatana Formation	3204.0	5.896	513.56	Warru	27	18	2.0
Ten Mile Creek	Moodlatana Formation	3202.0	5.898	513.59	Warru	23	15	1.0
Ten Mile Creek	Moodlatana Formation	3201.2	5.899	513.60	Warru	22	12	1.0
Ten Mile Creek	Moodlatana Formation	3200.3	5.900	513.61	Warru	24	8	2.0
Ten Mile Creek	Billy Creek Formation	3184.2	5.916	513.81	Warru	48	17	1.2
Ten Mile Creek	Billy Creek Formation	3178.4	5.922	513.88	Warru	34	10	1.5
Ten Mile Creek	Billy Creek Formation	3176.8	5.923	513.90	Warru	51	18	1.2
Ten Mile Creek	Billy Creek Formation	3175.8	5.924	513.91	Warru	34	8	0.5
Ten Mile Creek	Billy Creek Formation	3167.7	5.932	514.01	Warru	36	10	0.4
Ten Mile Creek	Billy Creek Formation	3163.0	5.937	514.07	Warru	51	16	0.5
Ten Mile Creek	Billy Creek Formation	2895.2	6.205	517.39	Warru	26	8	0.7
Ten Mile Creek	Billy Creek Formation	2874.3	6.226	517.65	Warru	25	9	0.4
Ten Mile Creek	Billy Creek Formation	2852.9	6.247	517.91	Warru	23	8	0.8
Ten Mile Creek	Billy Creek Formation	2852.3	6.248	517.92	Warru	22	5	0.7
Ten Mile Creek	Billy Creek Formation	2850.9	6.249	517.94	Warru	27	15	2.3
Ten Mile Creek	Billy Creek Formation	2845.0	6.255	518.01	Warru	23	8	0.9
Ten Mile Creek	Billy Creek Formation	2838.8	6.261	518.09	Warru	32	13	0.8
Ten Mile Creek	Billy Creek Formation	2830.6	6.269	518.19	Warru	22	7	0.4
Ten Mile Creek	Billy Creek Formation	2830.2	6.270	518.20	Warru	31	15	0.7
Ten Mile Creek	Billy Creek Formation	2812.9	6.287	518.41	Warru	21	7	0.4
Ten Mile Creek	Billy Creek Formation	2805.7	6.294	518.50	Warru	24	9	0.9
Ten Mile Creek	Billy Creek Formation	2804.7	6.295	518.51	Warru	31	17	0.8
Ten Mile Creek	Billy Creek Formation	2803.7	6.296	518.52	Warru	25	15	0.6
Ten Mile Creek	Billy Creek Formation	2403.6	6.696	523.49	Warru	34	24	2.0
Ten Mile Creek	Billy Creek Formation	2403.1	6.697	523.49	Warru	26	18	1.0
Ten Mile Creek	Billy Creek Formation	2402.7	6.697	523.50	Warru	24	16	3.0
Ten Mile Creek	Billy Creek Formation	2402.4	6.698	523.50	Warru	32	24	2.1
Ten Mile Creek	Billy Creek Formation	2401.6	6.698	523.51	Warru	23	21	1.1
Ten Mile Creek	Billy Creek Formation	2401.2	6.699	523.52	Warru	22	20	1.3
Wilkatana 1 core	Parachilna Formation	1053.2	8.047	536.98	Watuna	38	11	0.6
Wilkatana 1 core	Parachilna Formation	1052.6	8.047	536.99	Watuna	36	9	0.6
Wilkatana 1 core	Parachilna Formation	1052.0	8.048	536.99	Watuna	24	13	0.6
Parachilna Gorge	Parachilna Formation	1086.3	8.014	539.82	Arrari	22	10	5.1

Parachilna Gorge	Parachilna Formation	1085.0	8.015	539.84	Arrari	25	13	4.3
Parachilna Gorge	Parachilna Formation	1084.4	8.016	539.84	Arrari	23	12	3.1
Parachilna Gorge	Parachilna Formation	1083.5	8.017	539.85	Watuna	25	15	2.3
Brachina Gorge	Parachilna Formation	1082.4	8.018	539.87	Mata	32	21	1.2
Brachina Gorge	Parachilna Formation	1081.4	8.019	539.88	Mata	31	23	2.3
Brachina Gorge	Parachilna Formation	1080.7	8.019	539.89	Mata	35	25	2.5
Parachilna Gorge	Parachilna Formation	1080.4	8.020	539.89	Watuna	27	15	2.1
Brachina Gorge	Parachilna Formation	1079.4	8.021	539.91	Mata	59	25	2.5
Parachilna Gorge	Parachilna Formation	1078.8	8.021	539.91	Watuna	24	12	1.2
Brachina Gorge	Parachilna Formation	1078.7	8.021	539.91	Vidnapa	28	16	1.1
Parachilna Gorge	Parachilna Formation	1078.2	8.022	539.92	Mata	54	14	1.6
Brachina Gorge	Parachilna Formation	1078.0	8.022	539.92	Vidnapa	37	12	1.4
Parachilna Gorge	Parachilna Formation	1076.2	8.024	539.95	Vidnapa	29	14	1.3
Parachilna Gorge	Parachilna Formation	1075.6	8.024	539.95	Vidnapa	28	15	1.5
Parachilna Gorge	Parachilna Formation	1074.4	8.026	539.97	Watuna	31	18	2.5
Parachilna Gorge	Parachilna Formation	1072.9	8.027	539.99	Watuna	32	16	4.1
Parachilna Gorge	Parachilna Formation	1072.3	8.028	539.99	Watuna	25	13	3.5
Parachilna Gorge	Parachilna Formation	1071.4	8.029	540.00	Watuna	26	14	2.3
Parachilna Gorge	Parachilna Formation	1070.4	8.030	540.02	Watuna	31	17	4.0
Parachilna Gorge	Parachilna Formation	1069.8	8.030	540.02	Watuna	27	13	5.0
Parachilna Gorge	Parachilna Formation	1068.9	8.031	540.04	Watuna	29	18	3.0
Parachilna Gorge	Parachilna Formation	1067.8	8.032	540.05	Watuna	33	15	9.0
Parachilna Gorge	Parachilna Formation	1066.1	8.034	540.07	Arrari	25	11	8.0
Parachilna Gorge	Parachilna Formation	1065.2	8.035	540.08	Watuna	35	15	7.0
Parachilna Gorge	Parachilna Formation	1064.7	8.035	540.09	Watuna	30	13	7.0
Parachilna Gorge	Parachilna Formation	1062.2	8.038	540.12	Arrari	22	10	5.0
Parachilna Gorge	Parachilna Formation	1061.1	8.039	540.13	Arrari	19	12	6.2
Parachilna Gorge	Parachilna Formation	1059.7	8.040	540.15	Arrari	25	19	7.8
Parachilna Gorge	Parachilna Formation	1055.5	8.045	540.20	Arrari	21	11	4.0
Parachilna Gorge	Parachilna Formation	1054.7	8.045	540.21	Arrari	27	13	6.0
Parachilna Gorge	Parachilna Formation	1053.5	8.047	540.23	Arrari	22	9	2.0
Parachilna Gorge	Parachilna Formation	1053.0	8.047	540.23	Arrari	26	10	2.0
Parachilna Gorge	Parachilna Formation	1052.0	8.048	540.25	Arrari	33	12	3.0
Brachina Gorge	Rawnsley Quartzite	5034.8	4.065	541.42	Muru	26	20	1.1
Brachina Gorge	Rawnsley Quartzite	5025.6	4.074	541.69	Muru	22	14	1.1
Brachina Gorge	Rawnsley Quartzite	5023.7	4.076	541.75	Muru	25	15	1.4
Brachina Gorge	Rawnsley Quartzite	5023.2	4.077	541.76	Muru	28	17	1.3
Brachina Gorge	Rawnsley Quartzite	4958.5	4.142	543.68	Muru	21	20	1.2
Brachina Gorge	Rawnsley Quartzite	4953.2	4.147	543.83	Muru	26	17	1.8
Brachina Gorge	Rawnsley Quartzite	4948.7	4.151	543.97	Muru	24	16	1.2
Brachina Gorge	Rawnsley Quartzite	4947.5	4.152	544.00	Muru	26	18	2.3
Brachina Gorge	Ediacara Member	4765.5	3.978	549.39	Muru	22	10	3.0
Brachina Gorge	Ediacara Member	4764.8	3.979	549.41	Muru	25	12	2.0
Brachina Gorge	Ediacara Member	4764.4	3.979	549.42	Muru	29	20	3.0
Brachina Gorge	Ediacara Member	4764.3	3.979	549.43	Warrutu	49	48	4.0
Brachina Gorge	Ediacara Member	4764.2	3.979	549.43	Muru	25	17	2.0
Brachina Gorge	Ediacara Member	4761.0	3.983	549.52	Yaldati	24	12	0.4
Brachina Gorge	Ediacara Member	4754.3	3.989	549.72	Yaldati	32	12	2.0
Brachina Gorge	Ediacara Member	4753.8	3.990	549.74	Yaldati	28	9	0.3
Brachina Gorge	Ediacara Member	4753.4	3.990	549.75	Yaldati	26	13	0.4

Brachina Gorge	Ediacara Member	4746.3	3.997	549.96	Yaldati	27	15	0.7
Brachina Gorge	Ediacara Member	4740.0	4.004	550.15	Yaldati	25	18	0.4
Brachina Gorge	Ediacara Member	4735.8	4.008	550.27	Yaldati	24	17	0.3
Brachina Gorge	Breakfast Time Creek	4723.2	4.377	550.64	Yaldati	23	18	0.9
Brachina Gorge	Breakfast Time Creek	4721.9	4.378	550.68	Yaldati	29	21	1.1
Brachina Gorge	Breakfast Time Creek	4720.1	4.380	550.73	Yaldati	28	18	0.8
Brachina Gorge	Breakfast Time Creek	4704.6	4.395	551.19	Yaldati	28	19	0.8
Brachina Gorge	Breakfast Time Creek	4695.0	4.405	551.48	Yaldati	24	18	1.2
Brachina Gorge	Breakfast Time Creek	4693.1	4.407	551.53	Yaldati	28	21	1.1
Brachina Gorge	Breakfast Time Creek	4688.3	4.412	551.68	Yaldati	25	19	2.1
Brachina Gorge	Breakfast Time Creek	4683.6	4.416	551.82	Yaldati	29	21	1.1
Brachina Gorge	Breakfast Time Creek	4667.8	4.432	552.28	Yaldati	22	12	0.8
Brachina Gorge	Breakfast Time Creek	4662.0	4.438	552.46	Yaldati	24	13	0.9
Brachina Gorge	Breakfast Time Creek	4660.7	4.439	552.49	Yaldati	27	18	1.1
Brachina Gorge	Breakfast Time Creek	4649.6	4.450	552.82	Yaldati	25	19	2.1
Brachina Gorge	Breakfast Time Creek	4649.2	4.451	552.83	Yaldati	24	18	2.2
Brachina Gorge	Breakfast Time Creek	4648.8	4.451	552.85	Yaldati	29	15	3.2
Brachina Gorge	Breakfast Time Creek	4648.1	4.452	552.87	Yaldati	22	16	0.6
Brachina Gorge	Breakfast Time Creek	4646.8	4.453	552.91	Yaldati	24	18	0.3
Brachina Gorge	Chace Quartzite	4632.5	4.467	553.33	Yaldati	22	17	0.4
Brachina Gorge	Chace Quartzite	4620.3	4.480	553.69	Yaldati	25	16	0.8
Brachina Gorge	Chace Quartzite	4613.4	4.487	553.89	Yaldati	24	18	0.9
Brachina Gorge	Chace Quartzite	4608.1	4.492	554.05	Yaldati	22	16	1.1
Brachina Gorge	Chace Quartzite	4606.8	4.493	554.09	Yaldati	24	16	0.1
Brachina Gorge	Chace Quartzite	4583.0	4.517	554.79	Yaldati	28	17	1.1
Brachina Gorge	Chace Quartzite	4532.1	4.568	556.30	Yaldati	28	15	0.9
Brachina Gorge	Bonney Sandstone	4504.0	4.596	557.13	Yaldati	34	23	1.2
Brachina Gorge	Bonney Sandstone	4500.5	4.600	557.24	Yaldati	29	19	3.2
Brachina Gorge	Bonney Sandstone	4499.0	4.601	557.28	Yaldati	25	21	1.2
Brachina Gorge	Bonney Sandstone	4498.0	4.602	557.31	Yaldati	28	23	3.2
Brachina Gorge	Bonney Sandstone	4496.5	4.604	557.35	Yaldati	21	16	1.1
Brachina Gorge	Bonney Sandstone	4495.8	4.604	557.37	Yaldati	29	25	1.8
Brachina Gorge	Bonney Sandstone	4494.8	4.605	557.40	Yaldati	23	18	1.0
Brachina Gorge	Bonney Sandstone	4471.8	4.628	558.08	Yaldati	27	18	1.0
Brachina Gorge	Bonney Sandstone	4368.8	4.731	561.13	Yaldati	31	18	1.2
Brachina Gorge	Bonney Sandstone	4363.6	4.736	561.29	Vulda	23	18	0.4
Brachina Gorge	Bonney Sandstone	4359.1	4.741	561.42	Vulda	24	19	0.3
Brachina Gorge	Bonney Sandstone	4351.8	4.748	561.64	Vulda	30	21	0.2
Brachina Gorge	Bonney Sandstone	4351.2	4.749	561.65	Vulda	31	22	0.3
Brachina Gorge	Bonney Sandstone	4346.1	4.754	561.80	Vulda	29	21	0.4
Brachina Gorge	Bonney Sandstone	4343.4	4.757	561.89	Vulda	23	17	0.7
Brachina Gorge	Bonney Sandstone	4337.6	4.762	562.06	Vulda	22	18	0.4
Brachina Gorge	Bonney Sandstone	4327.6	4.772	562.35	Vulda	19	13	0.3
Brachina Gorge	Bonney Sandstone	4323.1	4.777	562.49	Vulda	22	14	0.6
Brachina Gorge	Bonney Sandstone	4321.7	4.778	562.53	Vulda	19	12	0.2
Brachina Gorge	Bonney Sandstone	4306.0	4.794	562.99	Vulda	22	17	0.3
Brachina Gorge	Bonney Sandstone	4304.7	4.795	563.03	Vulda	24	16	0.5
Brachina Gorge	Bonney Sandstone	4304.1	4.796	563.05	Vulda	21	18	0.4
Brachina Gorge	Bonney Sandstone	4269.7	4.830	564.07	Yaldati	29	21	2.2
Brachina Gorge	Bonney Sandstone	4261.1	4.839	564.32	Yaldati	22	17	1.6

Brachina Gorge	Bonney Sandstone	4260.7	4.839	564.33	Yaldati	19	12	1.1
Brachina Gorge	Bonney Sandstone	4260.3	4.840	564.34	Vulda	21	10	0.7
Brachina Gorge	Bonney Sandstone	4252.7	4.847	564.57	Yaldati	19	4	4.0
Brachina Gorge	Bonney Sandstone	4243.6	4.856	564.84	Vulda	19	16	0.3
Brachina Gorge	Bonney Sandstone	4243.2	4.857	564.85	Vulda	22	17	0.4
Brachina Gorge	Bonney Sandstone	4208.1	4.892	565.89	Vulda	19	18	0.3
Brachina Gorge	Bonney Sandstone	4196.6	4.903	566.23	Vulda	29	17	0.3
Brachina Gorge	Bonney Sandstone	4195.6	4.904	566.26	Vulda	31	18	0.6
Brachina Gorge	Bonney Sandstone	4180.4	4.920	566.71	Vulda	19	15	0.6
Brachina Gorge	Bonney Sandstone	4179.7	4.920	566.73	Vulda	18	12	0.9
Brachina Gorge	Bonney Sandstone	4176.9	4.923	566.82	Vulda	29	10	0.5
Brachina Gorge	Bonney Sandstone	4176.3	4.924	566.83	Vulda	20	11	0.3
Brachina Gorge	Bonney Sandstone	4175.8	4.924	566.85	Vulda	22	15	0.5
Brachina Gorge	Bonney Sandstone	4174.5	4.925	566.88	Vulda	25	13	0.2
Brachina Gorge	Bonney Sandstone	4173.9	4.926	566.90	Vulda	19	12	0.3
Brachina Gorge	Bonney Sandstone	4173.3	4.927	566.92	Vulda	22	15	0.6
Brachina Gorge	Bonney Sandstone	4141.5	4.959	567.86	Vulda	30	20	0.5
Brachina Gorge	Bonney Sandstone	4140.7	4.959	567.89	Vulda	24	18	0.4
Brachina Gorge	Bonney Sandstone	4136.7	4.963	568.00	Vulda	18	10	0.2
Brachina Gorge	Bonney Sandstone	4136.2	4.964	568.02	Vulda	19	12	0.4
Brachina Gorge	Bonney Sandstone	4134.5	4.966	568.07	Vulda	31	19	0.3
Brachina Gorge	Bonney Sandstone	4133.9	4.966	568.09	Vulda	24	18	0.7
Brachina Gorge	Bonney Sandstone	4133.4	4.967	568.10	Vulda	19	12	0.6
Brachina Gorge	Bonney Sandstone	4133.0	4.967	568.11	Vulda	21	13	0.3
Bunyeroo Gorge	Wonoka Formation	3965.7	2.434	573.07	Yaldati	16	8	1.2
Bunyeroo Gorge	Wonoka Formation	3965.5	2.435	573.07	Yaldati	15	7	1.1
Bunyeroo Gorge	Wonoka Formation	3958.3	2.442	573.28	Vulda	16	11	0.5
Bunyeroo Gorge	Wonoka Formation	3957.8	2.442	573.30	Yaldati	15	8	1.1
Bunyeroo Gorge	Wonoka Formation	3957.7	2.442	573.30	Vulda	17	10	0.8
Bunyeroo Gorge	Wonoka Formation	3929.7	2.470	574.13	Vulda	18	12	0.3
Bunyeroo Gorge	Bunyeroo Formation	3897.4	2.503	575.09	Vulda	16	11	0.4
Bunyeroo Gorge	Bunyeroo Formation	3896.4	2.504	575.12	Vulda	15	11	0.4
Bunyeroo Gorge	Bunyeroo Formation	3896.1	2.504	575.12	Vulda	16	13	0.5
Bunyeroo Gorge	Bunyeroo Formation	3895.3	2.505	575.15	Vulda	18	10	0.3
Bunyeroo Gorge	Bunyeroo Formation	3895.0	2.505	575.16	Vulda	19	12	0.4
Bunyeroo Gorge	Bunyeroo Formation	3894.7	2.505	575.17	Vulda	18	11	0.8
Bunyeroo Gorge	Bunyeroo Formation	3894.3	2.506	575.18	Vulda	22	12	1.0
Bunyeroo Gorge	Bunyeroo Formation	3893.7	2.506	575.20	Yaldati	19	10	1.2
Bunyeroo Gorge	Bunyeroo Formation	3860.9	2.539	576.17	Vulda	17	12	0.4
Bunyeroo Gorge	Bunyeroo Formation	3857.9	2.542	576.26	Vulda	16	10	0.3
Bunyeroo Gorge	Bunyeroo Formation	3856.7	2.543	576.29	Vulda	17	11	0.4
Bunyeroo Gorge	Bunyeroo Formation	3856.4	2.544	576.30	Vulda	17	9	0.7
Bunyeroo Gorge	Bunyeroo Formation	3855.3	2.545	576.33	Vulda	18	10	0.9
Bunyeroo Gorge	Bunyeroo Formation	3854.8	2.545	576.35	Vulda	18	9	0.7
Bunyeroo Gorge	Bunyeroo Formation	3851.6	2.548	576.44	Vulda	20	10	0.8
Bunyeroo Gorge	Bunyeroo Formation	3851.0	2.549	576.46	Vulda	21	11	0.9
Bunyeroo Gorge	Bunyeroo Formation	3850.0	2.550	576.49	Vulda	19	13	1.0
Bunyeroo Gorge	Bunyeroo Formation	3849.5	2.550	576.50	Vulda	18	12	1.1
Bunyeroo Gorge	Bunyeroo Formation	3849.0	2.551	576.52	Vulda	16	10	1.2
Bunyeroo Gorge	Bunyeroo Formation	3843.8	2.556	576.67	Vulda	21	14	0.5

Bunyeroo Gorge	Bunyeroo Formation	3841.8	2.558	576.73	Vulda	19	8	0.3
Bunyeroo Gorge	Bunyeroo Formation	3840.8	2.559	576.76	Vulda	25	14	0.4
Bunyeroo Gorge	Bunyeroo Formation	3840.4	2.560	576.77	Vulda	21	10	0.4
Bunyeroo Gorge	Bunyeroo Formation	3839.1	2.561	576.81	Vulda	19	7	0.3
Bunyeroo Gorge	Bunyeroo Formation	3837.6	2.562	576.86	Vulda	21	10	0.4
Bunyeroo Gorge	Bunyeroo Formation	3835.8	2.564	576.91	Vulda	22	11	0.8
Bunyeroo Gorge	Bunyeroo Formation	3835.6	2.564	576.92	Vulda	24	13	0.5
Bunyeroo Gorge	Bunyeroo Formation	3368.2	5.732	590.75	Vulda	30	19	0.5
Bunyeroo Gorge	Bunyeroo Formation	3367.5	5.733	590.77	Vulda	23	14	0.3
Bunyeroo Gorge	Bunyeroo Formation	3367.2	5.733	590.78	Vulda	19	12	0.4
Brachina Creek	Bunyeroo Formation	3366.3	5.734	590.81	Vulda	24	13	0.6
Bunyeroo Gorge	Bunyeroo Formation	3366.0	5.734	590.82	Vulda	27	19	0.4
Brachina Creek	Bunyeroo Formation	3365.9	5.734	590.82	Vulda	29	16	0.4
Bunyeroo Gorge	Bunyeroo Formation	3365.4	5.735	590.83	Vulda	32	22	0.5
Brachina Creek	Bunyeroo Formation	3365.1	5.735	590.84	Vulda	25	14	0.4
Brachina Creek	Bunyeroo Formation	3364.7	5.735	590.86	Vulda	24	13	0.3
Bunyeroo Gorge	Bunyeroo Formation	3364.6	5.735	590.86	Vulda	26	19	0.4
Bunyeroo Gorge	Bunyeroo Formation	3364.1	5.736	590.87	Vulda	25	17	0.4
Bunyeroo Gorge	Bunyeroo Formation	3363.7	5.736	590.88	Vulda	23	15	0.3
Bunyeroo Gorge	Bunyeroo Formation	3363.2	5.737	590.90	Vulda	32	21	0.6
Bunyeroo Gorge	Bunyeroo Formation	3362.5	5.738	590.92	Vulda	18	9	0.3
Bunyeroo Gorge	Bunyeroo Formation	3362.2	5.738	590.93	Vulda	23	16	0.5
Bunyeroo Gorge	Bunyeroo Formation	3361.5	5.739	590.95	Vulda	24	17	0.4
Bunyeroo Gorge	Bunyeroo Formation	3361.2	5.739	590.96	Vulda	36	22	0.5
Bunyeroo Gorge	Bunyeroo Formation	3360.5	5.740	590.98	Vulda	24	17	0.3
Bunyeroo Gorge	Bunyeroo Formation	3360.0	5.740	590.99	Vulda	23	18	0.4
Bunyeroo Gorge	Bunyeroo Formation	3359.5	5.741	591.01	Vulda	25	18	0.5
Bunyeroo Gorge	Bunyeroo Formation	3358.7	5.741	591.03	Vulda	35	22	0.4
Bunyeroo Gorge	Bunyeroo Formation	3358.2	5.742	591.05	Vulda	26	18	0.9
Bunyeroo Gorge	Bunyeroo Formation	3357.6	5.742	591.07	Vulda	23	12	0.2
Bunyeroo Gorge	Bunyeroo Formation	3357.1	5.743	591.08	Vulda	25	17	0.3
Bunyeroo Gorge	Bunyeroo Formation	3356.5	5.744	591.10	Vulda	34	21	0.5
Blinman	Bunyeroo Formation	3300.5	5.800	592.76	Vulda	29	17	2.5
Blinman	Bunyeroo Formation	3300.0	5.800	592.77	Vulda	33	21	2.0
Wilkatana 1 core	Bunyeroo Formation	3217.2	5.883	595.22	Vulda	29	22	0.5
Wilkatana 1 core	Bunyeroo Formation	3216.3	5.884	595.25	Vulda	27	18	0.6
Wilkatana 1 core	Bunyeroo Formation	3215.2	5.885	595.28	Vulda	33	24	0.5
Wilkatana 1 core	Bunyeroo Formation	3214.5	5.885	595.30	Vulda	23	17	0.4
Wilkatana 1 core	Bunyeroo Formation	3214.1	5.886	595.31	Vulda	27	19	0.3
Wilkatana 1 core	Bunyeroo Formation	3212.9	5.887	595.35	Vulda	31	16	0.3
Wilkatana 1 core	Bunyeroo Formation	3212.4	5.888	595.36	Vulda	24	15	0.5
Wilkatana 1 core	Bunyeroo Formation	3211.7	5.888	595.38	Vulda	18	13	0.3
Wilkatana 1 core	Bunyeroo Formation	3141.2	5.959	597.47	Vulda	29	13	0.6
Wilkatana 1 core	Bunyeroo Formation	3125.2	5.975	597.94	Vulda	33	16	0.8
Enorama Creek	Brachina Formation	2720.8	6.379	609.91	Alpa	23	13	0.4
Enorama Creek	Brachina Formation	2707.1	6.393	610.32	Yaldati	18	12	0.3
Enorama Creek	Nuccaleena Formation	1894.4	7.206	634.38	Alpa	27	9	0.8
Enorama Creek	Nuccaleena Formation	1893.8	7.206	634.39	Alpa	23	10	0.7
Enorama Creek	Nuccaleena Formation	1893.3	7.207	634.41	Alpa	24	11	0.7
Enorama Creek	Nuccaleena Formation	1892.5	7.207	634.43	Alpa	29	14	0.8

Enorama Creek	Nuccaleena Formation	1891.9	7.208	634.45	Alpa	24	11	0.7
Enorama Creek	Nuccaleena Formation	1891.1	7.209	634.47	Alpa	25	12	0.9
Enorama Creek	Nuccaleena Formation	1890.5	7.210	634.49	Alpa	28	13	1.1
Enorama Creek	Elatina Formation	1871.1	7.229	635.07	Yaldati	35	16	2.1
Enorama Creek	Elatina Formation	1871.0	7.229	635.07	Yaldati	32	21	2.0
Enorama Creek	Elatina Formation	1867.3	7.233	635.18	Yaldati	19	11	1.1
Enorama Creek	Elatina Formation	1866.5	7.234	635.20	Yaldati	18	12	0.9
Enorama Creek	Elatina Formation	1865.5	7.234	635.23	Yaldati	23	14	0.8
Enorama Creek	Elatina Formation	1864.9	7.235	635.25	Yaldati	29	18	1.2
Enorama Creek	Elatina Formation	1864.3	7.236	635.27	Yaldati	24	15	1.1
Enorama Creek	Elatina Formation	1863.7	7.236	635.29	Yaldati	23	14	0.9
Enorama Creek	Elatina Formation	1861.1	7.239	635.36	Yaldati	24	13	1.1
Enorama Creek	Elatina Formation	1860.2	7.240	635.39	Yaldati	23	14	0.8
Enorama Creek	Elatina Formation	1859.4	7.241	635.41	Yaldati	29	12	0.6
Enorama Creek	Elatina Formation	1858.1	7.242	635.45	Yaldati	25	13	0.7
Enorama Creek	Elatina Formation	1857.5	7.243	635.47	Yaldati	24	14	0.8
Enorama Creek	Elatina Formation	1856.9	7.243	635.49	Yaldati	29	16	1.5
Enorama Creek	Elatina Formation	1856.1	7.244	635.51	Yaldati	27	15	1.2
Enorama Creek	Elatina Formation	1855.0	7.245	635.54	Yaldati	26	14	0.9
Enorama Creek	Elatina Formation	1830.4	7.270	636.27	Yaldati	24	10	16.0
Enorama Creek	Elatina Formation	1830.0	7.270	636.28	Yaldati	22	8	12.0
Enorama Creek	Elatina Formation	1829.7	7.270	636.29	Yaldati	34	14	15.0
Enorama Creek	Elatina Formation	1829.3	7.271	636.30	Yaldati	26	11	13.0
Enorama Creek	Elatina Formation	1828.8	7.271	636.32	Yaldati	27	12	14.0
Enorama Creek	Elatina Formation	1828.4	7.272	636.33	Yaldati	32	13	16.0
Enorama Creek	Elatina Formation	1828.0	7.272	636.34	Yaldati	23	10	13.0
Enorama Creek	Elatina Formation	1827.7	7.272	636.35	Yaldati	25	12	12.0
Enorama Creek	Elatina Formation	1827.3	7.273	636.36	Yaldati	35	15	17.0
Enorama Creek	Elatina Formation	1826.8	7.273	636.38	Yaldati	24	13	14.0
Enorama Creek	Elatina Formation	1826.4	7.274	636.39	Yaldati	23	11	15.0
Enorama Creek	Elatina Formation	1816.0	7.284	636.70	Yaldati	18	22	0.8

Note: Stratigraphic levels are for a composite section from Mawson (1939a, b).

Table S2. Petrographic textures (volume %) of selected Ediacaran palaeosols.

Pedotype	Horizon	Sample	Gravel	Sand	Silt	Clay	Soil fabric	Soil texture
Muru	A	R3245	0	76.5	12.2	11.4	Granular silasepic	Sandy loam
Muru	A	R3246	0	88.8	4.8	6.4	Granular silasepic	sand
Muru	A	R3247	0	91.0	2.8	6.2	Granular silasepic	sand
Muru	By	R3248	0	92.8	3.0	4.2	Granular silasepic	sand
Muru	By	R3249	0.2	92.4	2.0	5.4	Granular silasepic	sand
Muru	By	R3250	0	86.8	6.2	7.0	Granular silasepic	Loamy sand
none	above	R3233	0	80.2	2.8	17.2	Granular silasepic	Sandy loam
Inga	A	R3234	0	75.8	1.0	23.2	Granular silasepic	Sandy clay loam
Inga	By	R3235	0.4	75.4	3.2	21.0	Granular silasepic	Sandy clay loam
Inga	C	R3236	0.4	28.4	3.4	17.8	Granular silasepic	Sandy loam
Yaldati	A	R3237	0	80.2	3.8	16.0	Granular silasepic	Sandy loam
Yaldati	A	R3238	0	79.2	6.6	14.2	Granular silasepic	Sandy loam
Yaldati	Bk	R3240	0.2	80.8	5.6	13.4	Granular silasepic	Sandy loam
Yaldati	Bk	R3241	0	79.8	8.2	12.0	Granular silasepic	Sandy loam

Yaldati	Bk	R3242	0	79.2	12.4	8.4	Granular silasepic	Sandy loam
none	above	R3474	0.4	79.6	14.2	5.8	Granular silasepic	Loamy sand
Vulda	A	R3475	0	48.6	24.6	26.8	Agglomeroplastic mosepic	Sandy clay loam
Vulda	A	R3476	0	56.4	14.6	29.0	Intertextic mosepic	Sandy clay loam
Vulda	Bk	R3477	0	51.0	22.8	26.2	Intertextic mosepic	Sandy clay loam
Vulda	C	R3478	0.4	72.2	22.4	5.0	Granular silasepic	Sandy loam
Arru	A	R3480	0	62.0	23.4	14.6	Intertextic mosepic	Sandy loam
Arru	C	R3481	0.4	78.8	10.0	10.8	Granular silasepic	Sandy loam
Vulda	A	R3489	0	8.2	52.4	39.4	Intertextic insepic	Silty clay loam
Vulda	A	R3490	0	11.4	51.4	37.2	Intertextic insepic	Silty clay loam
Vulda	Bk	R3491	0	13.2	50.0	36.8	Intertextic insepic	Silty clay loam
Vulda	Bk	R3492	0	15.4	54.6	30.0	Intertextic argillasepic	Silty clay loam
none	above	R3650	0.2	7.4	47.4	45.0	Crystic calciasepic	Silty clay
none	above	R3651	0	5.6	94.4	0	Crystic calciasepic	Silt
none	above	R3652	0	16.2	83.8	0	Crystic calciasepic	Silt
Vidla	A	R3653	0	28.4	56.0	15.6	Crystic calciasepic	Silty loam
Vidla	Bw	R3654	0	2.2	73.0	24.8	Intertextic insepic	Silt loam
Vidla	C	R3655	0	1.2	85.8	13.0	Intertextic insepic	Silt loam
Vidla	C	R3656	0	2.6	82.2	10.2	Intertextic insepic	Silt
Vidla	C	R3657	0	40.8	59.0	0.2	Crystic calciasepic	Silt loam
Vidla	C	R3658	0	6.2	88.2	5.6	Crystic calciasepic	Silt
Vidla	C	R3659	0	0.8	99.0	0.2	Crystic calciasepic	Silt
none	siltstone	R3660	0	9.4	61.0	29.6	Porphyroskelic argillasepic	Silty clay loam
none	siltstone	R3661	0	4.4	53.8	41.8	Porphyroskelic argillasepic	Silty clay
none	siltstone	R3662	0	6.6	42.2	51.2	Porphyroskelic argillasepic	Silty clay
none	siltstone	R3663	0	6.2	51.8	42.0	Porphyroskelic argillasepic	Silty clay

Note: All samples are shown on Figs. 6-7. Volumes are from counting 500 points in petrographic thin sections perpendicular to bedding using a Swift automated stage and counter. Error is $\pm 2\%$ for common (>10%) components (Murphy, 1983).

Table S3. Petrographic composition (volume %) of selected Ediacaran palaeosols.

Pedotype	Horizon	Sample	quartz	feldspar	Clay	opaque	mica	rock fragments	sparry calcite	micrite
Muru	A	R3245	63.0	22.4	9.0	0	0.4	4.4	0.8	0
Muru	A	R3246	83.6	12.8	7.6	0.2	0	2.8	0	0
Muru	A	R3247	77.8	13.8	5.0	1.2	0	2.2	0	0
Muru	By	R3248	81.6	12.0	3.4	0	0	2.0	0.2	0
Muru	By	R3249	79.4	14.0	6.2	0.2	0	0.2	0	0
Muru	By	R3250	76.4	17.4	4.6	1.6	0	0	0	0
none	above	R3233	68.0	16.8	14.4	0	0	0	0	0.8
Inga	A	R3234	64.2	15.6	18.0	1.8	0	0	0	0.4
Inga	By	R3235	63.8	19.4	14.4	0.8	0.2	1.4	0	0
Inga	C	R3236	62.4	19.2	16.8	1.2	0.2	0.2	0	0
Yaldati	A	R3237	68.4	15.4	7.4	8.4	0	0.4	0	0
Yaldati	A	R3238	71.2	13.2	4.4	11.0	0.2	0	0	0
Yaldati	Bk	R3240	69.6	19.8	11.4	3.4	0	0.8	0	0
Yaldati	Bk	R3241	60.8	17.6	11.4	7.4	0.2	0.6	0	2.0
Yaldati	Bk	R3242	65.6	21.6	6.2	5.4	0	1.2	0	0
none	above	R3474	69.2	17.4	5.0	8.2	0.2	0	0	0
Vulda	A	R3475	53.0	12.2	24.2	9.8	0.6	0.2	0	0
Vulda	A	R3476	49.4	18.0	19.4	13.6	0	0	0	0
Vulda	Bk	R3477	50.4	13.8	25.6	9.6	0.6	0	0	0
Vulda	C	R3478	64.6	24.6	5.2	5.0	0.4	0	0	0.2

Arru	A	R3480	55.0	16.4	17.6	10.8	0.2	0	0	0
Arru	C	R3481	70.4	14.8	10.4	3.6	0	0	0.4	0.4
Vulda	A	R3489	20.2	30.0	39.0	2.8	2.4	5.6	0	0
Vulda	A	R3490	17.0	25.6	39.2	3.6	3.8	10.0	0	0.8
Vulda	Bk	R3491	22.8	30.4	32.8	2.8	3.6	5.0	0	2.6
Vulda	Bk	R3492	20.8	29.6	31.0	3.2	6.6	6.8	0	2.0
none	above	R3650	9.4	0.2	1.0	1.0	12.0	0.2	27.4	48.8
none	above	R3651	9.4	0	0	0	2.4	0	0	93.2
none	above	R3652	33.2	0.4	0	1.2	59.4	0	5.5	0
Vidla	A	R3653	1.6	0.6	0.2	0	0	0	80.6	17.0
Vidla	Bw	R3654	14.4	0.2	7.2	0.2	10.4	0	50.6	17.0
Vidla	C	R3655	4.8	0	2.8	0	10.2	0	78.0	4.2
Vidla	C	R3656	1.6	0	8.0	0	1.0	0	86.0	3.4
Vidla	C	R3657	23.4	0	0.2	1.2	64.6	0	10.6	0
Vidla	C	R3658	3.2	0.2	1.4	1.4	1.8	0	90.0	2.0
Vidla	C	R3659	1.2	0	0	0	1.4	0	97.2	0.2
none	siltstone	R3660	19.0	30.8	32.8	3.6	8.8	5.0	0	0
none	siltstone	R3661	18.4	27.2	41.4	4.8	5.4	2.8	0	0
none	siltstone	R3662	20.4	23.0	40.6	7.6	5.4	3.0	0	0
none	siltstone	R3663	19.0	24.0	43.6	5.2	3.6	4.8	0	0

Note: All samples are shown on Figs. 6-7. Volumes are from counting 500 points in petrographic thin sections cut perpendicular to bedding using a Swift automated stage and counter. Error is $\pm 2\%$ for common ($>10\%$) components (Murphy, 1983)..

Table S4. Chemical analyses (wt%) and bulk density (g cm^{-3}) of Ediacaran palaeosols.

Pedo-type	Sample	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	FeO	CaO	MgO	Na ₂ O	K ₂ O	TiO ₂	MnO	P ₂ O ₅	SrO	BaO	LOI	Total	Density g.cm ⁻³
Inga	R3234	87.47	5.57	1.06	0.51	0.06	0.44	0.14	3.08	0.19	0.01	0.03	0.01	0.07	0.95	99.10	2.46
Inga	R3235	87.96	5.02	1.07	0.44	0.09	0.39	0.14	2.84	0.09	0.01	0.02	0.01	0.07	1.01	98.74	2.42
Yaldati	R3236	86.51	5.77	1.55	0.38	0.06	0.45	0.15	3.14	0.27	0.01	0.03	0.01	0.07	1.00	99.40	2.41
Yaldati	R3237	85.12	6.20	1.70	0.51	0.14	0.49	0.16	3.27	0.20	0.01	0.06	0.01	0.08	0.94	98.98	2.51
Yaldati	R3239	86.97	5.37	1.41	0.25	0.13	0.40	0.14	2.96	0.13	0.01	0.03	0.01	0.14	1.05	98.76	2.47
Yaldati	R3240	85.77	5.90	1.23	0.64	0.07	0.46	0.15	3.20	0.14	0.01	0.03	0.01	0.08	1.18	98.28	2.46
Yaldati	R3241	86.44	5.94	1.49	0.32	0.10	0.46	0.17	3.20	0.22	0.01	0.03	0.01	0.09	1.21	99.37	2.46
Yaldati	R3242	85.67	5.89	1.06	0.32	0.09	0.44	0.14	3.21	0.17	0.01	0.05	0.01	0.09	1.30	98.13	2.48
Muru	R3245	91.78	4.25	0.74	0.51	0.24	0.17	0.01	1.31	0.05	0.01	0.01	0.01	0.04	1.35	99.97	2.58
Muru	R3246	93.22	3.03	0.70	0.45	0.25	0.09	0.02	1.60	0.05	0.01	0.02	0.01	0.04	0.72	99.76	2.59
Muru	R3247	95.11	2.58	0.79	0.58	0.13	0.01	0.01	0.53	0.05	0.01	0.01	0.01	0.02	0.81	100.00	2.59
Muru	R3249	95.69	2.10	0.64	0.58	0.06	0.01	0.01	1.18	0.03	0.01	0.01	0.01	0.03	0.26	100.00	2.60
Muru	R3250	92.21	3.80	0.70	0.51	0.16	0.06	0.05	1.80	0.06	0.01	0.02	0.01	0.05	1.06	99.98	2.48
Vulda	R3475	72.15	11.92	5.19	1.74	0.25	1.60	0.62	4.49	0.47	0.02	0.09	0.01	0.06	2.68	99.56	2.64
Vulda	R3476	76.90	10.47	3.45	1.29	0.23	1.40	0.88	4.09	0.31	0.02	0.08	0.01	0.06	2.09	99.99	2.64
Vulda	R3477	76.00	10.80	3.86	1.16	0.19	1.40	0.64	4.34	0.34	0.02	0.06	0.01	0.06	2.33	100.05	2.62
Vulda	R3478	84.39	6.88	1.95	0.64	0.39	0.50	0.73	3.08	0.24	0.02	0.05	0.01	0.06	1.46	99.76	2.62
Vidla	R3653	14.80	2.57	1.10	0.90	42.76	0.96	0.46	0.44	0.12	0.13	0.05	0.02	0.03	35.10	98.55	2.69
Vidla	R3654	26.75	5.86	2.14	1.55	31.39	2.45	1.04	1.15	0.28	0.13	0.09	0.01	0.08	27.00	98.37	2.68
Vidla	R3655	23.61	5.31	1.92	1.48	34.02	1.94	1.09	1.06	0.27	0.12	0.11	0.01	0.04	28.60	98.11	2.75
Vidla	R3656	17.82	3.53	1.19	1.10	39.41	1.36	0.77	0.61	0.18	0.13	0.06	0.02	0.03	33.10	98.21	2.75
Vidla	R3657	54.60	14.97	7.73	5.78	5.80	5.56	1.47	3.90	0.72	0.08	0.18	0.01	0.13	4.75	99.92	2.80
Vidla	R3658	13.89	2.78	1.40	1.29	43.12	1.09	0.43	0.57	0.13	0.14	0.04	0.01	0.04	35.00	98.65	2.80
siltstone	R3660L	61.42	16.73	8.57	5.75	0.79	2.32	1.09	4.41	1.13	0.05	0.16	0.01	0.25	2.55	99.50	2.84
siltstone	R3660U	60.72	16.56	9.29	6.49	0.91	2.54	1.12	4.35	1.14	0.06	0.17	0.01	0.24	2.62	99.74	2.81

siltstone	R3661L	60.12	17.98	8.14	3.86	0.56	2.26	0.80	5.02	1.02	0.04	0.15	0.01	0.24	3.09	99.44	2.75
siltstone	R3661U	60.38	17.76	8.19	3.34	0.60	2.22	0.78	4.94	1.05	0.07	0.15	0.01	0.24	3.34	99.74	2.75
siltstone	R3662	66.56	15.21	6.66	3.08	0.55	2.05	0.95	3.76	0.91	0.05	0.12	0.01	0.17	2.78	99.79	2.62
siltstone	R3663	59.52	15.98	8.86	6.32	2.05	3.53	0.90	4.25	0.97	0.06	0.16	0.01	0.19	3.44	99.93	2.81
Error	All	2.705	0.825	0.395		0.22	0.18	0.11	0.13		0.06	0.025	0.035			0.35	0.04

Note: Specimen locations are shown in Figs. 6-7. Analyses are by XR on glass disc, with FeO by Pratt titration and C by Leco analyzer from ALS Chemex of Vancouver, BC, Canada, using Canadian Certified Reference Materials Project standard SY-4 (diorite gneiss from near Bancroft, Ontario). Errors (2 σ) are from 89 replicate analyses of the standard in the same laboratory.

Table S5. Stable isotopic analyses (%) of marine carbonate, Flinders Ranges.

location	Formation	level (m)	Ma	$\delta^{13}\text{C}_{\text{carb}} \text{‰}$	$\delta^{18}\text{O}_{\text{carb}} \text{‰}$	author
Ten Mile Creek	Moodlatana Formation	7668.6	507.70	-0.31	-8.66	Retallack 2008
Ten Mile Creek	Moodlatana Formation	7668.6	507.70	-0.31	-8.77	Retallack 2008
Ten Mile Creek	Wirrealpa Limestone	7231.0	513.08	-1.79	-10.08	Retallack 2008
Ten Mile Creek	Wirrealpa Limestone	7231.0	513.08	-1.80	-10.13	Retallack 2008
Ten Mile Creek	Wilkawillina Limestone	6641.5	533.25	0.28	-9.82	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	6641.5	533.25	-0.39	-11.84	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	6641.5	533.25	3.03	-6.85	Singh 1986
Ten Mile Creek	Edeowie Limestone	6391.0	523.41	2.58	-10.34	Retallack 2008
Ten Mile Creek	Edeowie Limestone	6391.0	523.41	2.56	-10.30	Retallack 2008
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.72	-8.56	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.76	-8.69	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.47	-9.55	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.72	-9.02	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.76	-8.35	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	516.56	0.72	-6.46	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.63	-7.73	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.65	-7.59	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.61	-7.72	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.48	-7.58	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.53	-7.59	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.27	-8.42	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.34	-8.27	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.44	-9.52	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.66	-14.54	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.93	-11.27	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.79	-7.20	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.83	-7.14	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.45	-8.79	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.64	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.60	-8.91	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.64	-9.35	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.64	-9.25	Surge 1996
Mt Scott Range	Ajax Limestone	5874.7	517.36	0.69	-9.12	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.63	-9.19	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.62	-8.70	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.64	-8.75	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.50	-7.92	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.58	-9.18	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.53	-8.48	Surge 1996

Mt Scott Range	Ajax Limestone	5847.673	517.36	0.57	-8.00	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.60	-7.54	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.63	-7.67	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.60	-7.75	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.65	-7.47	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.51	-8.65	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.44	-8.74	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.46	-8.89	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.51	-8.17	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.51	-9.19	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.52	-9.23	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.59	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.36	-7.78	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.35	-8.00	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.48	-8.16	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.72	-7.52	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.55	-7.61	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.62	-7.45	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.59	-7.77	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.45	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.40	-7.79	Surge 1996
Mt Scott Range	Ajax Limestone	5847.673	517.36	0.49	-7.18	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.57	-8.41	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.77	-7.75	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.58	-8.04	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.63	-8.31	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.43	-7.37	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.40	-7.18	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.44	-7.28	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	1.03	-12.87	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.68	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.60	-8.11	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.51	-7.05	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.45	-7.04	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.85	-10.02	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.86	-10.08	Surge 1996
Mt Scott Range	Ajax Limestone	5845.673	517.42	0.64	-8.04	Surge 1996
Mt Scott Range	Ajax Limestone	5819.673	518.19	0.21	-7.88	Surge 1996
Mt Scott Range	Ajax Limestone	5819.673	518.19	-0.01	-8.99	Surge 1996
Mt Scott Range	Ajax Limestone	5819.673	518.19	0.18	-8.79	Surge 1996
Mt Scott Range	Ajax Limestone	5819.673	518.19	0.21	-8.59	Surge 1996
Mt Scott Range	Ajax Limestone	5819.673	518.19	0.30	-9.42	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.04	-8.26	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.12	-7.89	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.07	-7.64	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.58	-14.84	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.96	-14.03	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	-0.06	-8.28	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.06	-8.76	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.14	-7.78	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.01	-8.50	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.09	-7.99	Surge 1996

Mt Scott Range	Ajax Limestone	5794.673	518.93	0.05	-8.07	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.08	-7.89	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.06	-8.45	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.09	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.26	-7.34	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.24	-7.00	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.22	-7.18	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.23	-7.42	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.04	-13.98	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.25	-8.71	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.04	-7.70	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.03	-7.80	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.06	-8.15	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.08	-6.82	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.11	-8.38	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.11	-7.29	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.15	-8.47	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.04	-9.15	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.03	-9.54	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.17	-7.19	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.18	-7.14	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	-0.08	-7.44	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.37	-8.61	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.37	-8.25	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.29	-8.94	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.28	-8.82	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.30	-8.98	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.30	-8.84	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.33	-8.76	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.17	-8.29	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.21	-7.81	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.49	-14.52	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.18	-8.26	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.92	-14.41	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.85	-14.09	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.96	-14.18	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.94	-13.48	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.49	-14.87	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.45	-15.18	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.77	-14.11	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.08	-7.29	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.16	-8.28	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.28	-6.39	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.01	-8.08	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.09	-8.29	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.06	-15.19	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.00	-13.46	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.30	-6.99	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.24	-6.89	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	0.16	-7.05	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	1.22	-14.39	Surge 1996
Mt Scott Range	Ajax Limestone	5794.673	518.93	1.34	-14.34	Surge 1996

Mt Scott Range	Ajax Limestone	5794.673	518.93	0.96	-15.89	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.58	-9.29	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.68	-9.45	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.04	-8.50	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.11	-9.17	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.15	-8.68	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.10	-9.52	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.15	-9.55	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.33	-6.85	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.32	-7.39	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.32	-6.92	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.21	-7.10	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.22	-7.02	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.38	-6.66	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.39	-6.51	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.03	-8.33	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.04	-8.40	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.06	-7.52	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.01	-7.50	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.10	-6.87	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	-0.08	-7.75	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.04	-7.58	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.18	-7.27	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.00	-7.21	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.09	-7.50	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.19	-9.27	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.11	-9.84	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.23	-9.41	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.11	-7.30	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.17	-7.01	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.09	-6.69	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.24	-6.97	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.26	-6.44	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.41	-6.42	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	1.30	-14.89	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.29	-8.18	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.27	-8.68	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.40	-6.55	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.30	-6.91	Surge 1996
Mt Scott Range	Ajax Limestone	5771.673	519.61	0.15	-7.48	Surge 1996
Wilkawillina Gorge	Wilkawillina Limestone	5709.67	521.44	0.63	-8.30	Tucker 1991
Wilkawillina Gorge	Wilkawillina Limestone	5688.67	522.07	1.45	-11.10	Tucker 1991
Wilkawillina Gorge	Wilkawillina Limestone	5681.67	522.27	0.92	-10.80	Tucker 1991
Wilkawillina Gorge	Wilkawillina Limestone	5677.67	522.39	0.08	-12.90	Tucker 1991
Back Range	Wonoka Formation	4207.079	565.92	6.54	-11.52	Urlwin 1992
First Hill	Wonoka Formation	4203.528	566.03	1.83	-7.43	Calver 2000
First Hill	Wonoka Formation	4203.528	566.03	1.83	-7.43	Calver 2000
Brachina Gorge	Wonoka Formation	4202	566.07	0.88	-8.04	herein
Brachina Gorge	Wonoka Formation	4202	566.07	0.95	-8.07	herein
Brachina Gorge	Mayo Limestone	4200	566.13	1.07	-10.50	Singh 1986
Brachina Gorge	Mayo Limestone	4200	566.13	1.89	-7.15	Singh 1986
Bunyeroo Gorge	Mayo Limestone	4200	566.13	0.99	-8.19	Singh 1986

Bunyeroo Gorge	Mayo Limestone	4200	566.13	0.55	-11.55	Singh 1986
Bunyeroo Gorge	Mayo Limestone	4200	566.13	-0.75	-7.57	Singh 1986
Brachina Gorge	Bonney Formation	4199.379	566.15	0.85	-3.50	Calver 2000
Back Range	Wonoka Formation	4192.079	566.36	6.611	-11.86	Urlwin 1992
Brachina Gorge	Wonoka Formation	4158.579	567.36	2.32	-6.95	Calver 2000
Brachina Gorge	Wonoka Formation	4151.579	567.56	1.42	-5.49	Calver 2000
Brachina Gorge	Wonoka Formation	4147.079	567.70	2.72	-5.89	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4146.623	567.71	-1.95	-8.34	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4145.736	567.74	0.66	-4.47	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4145.292	567.75	2.36	-4.73	Calver 2000
Brachina Gorge	Wonoka Formation	4143.079	567.81	0.60	-8.35	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4142.631	567.83	-2.04	-4.39	Calver 2000
Back Range	Wonoka Formation	4142.079	567.84	3.54	-12.03	Urlwin 1992
Brachina Gorge	Wonoka Formation	4141.079	567.87	2.05	-8.82	Calver 2000
Back Range	Wonoka Formation	4137.079	567.99	3.44	-12.35	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	4135.534	568.04	0.93	-9.73	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4132.252	568.14	0.20	-11.20	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4131.099	568.17	-1.09	-12.28	Calver 2000
Old Station Creek	Wonoka canyon fill	4116	568.62	1.33	-14.85	Calver 2000
Old Station Creek	Wonoka canyon fill	4116	568.62	1.33	-14.85	Calver 2000
Old Station Creek	Wonoka canyon fill	4116	568.62	1.33	-14.85	Calver 2000
Umberatana	Wonoka Formation	4116	568.62	1.50	-13.7	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka Formation	4116	568.62	1.10	-11.8	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka Formation	4116	568.62	0.60	-8.40	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka Formation	4116	568.62	5.40	-1.40	Eickoff <i>et al.</i> 1988
Bunyeroo Gorge	Wonoka Formation	4106.26	568.90	-0.63	-12.50	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4100.937	569.06	-2.82	-11.80	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4083.195	569.59	-1.81	-11.23	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4076.986	569.77	-2.87	-11.39	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4076.986	569.77	-2.93	-11.68	Calver 2000
Back Range	Wonoka Formation	4076.079	569.80	4.53	-13.22	Urlwin 1992
Back Range	Wonoka Formation	4053.079	570.48	2.88	-13.36	Urlwin, 1992
Back Range	Wonoka Formation	4029.079	571.19	4.67	-14.30	Urlwin, 1992
Wearing Gorge	Bunyeroo Formation	3452.679	588.25	2.90	-1.23	Young 1995
Wearing Gorge	Bunyeroo Formation	3439.079	588.65	2.59	-7.27	Young 1995
Wearing Gorge	Bunyeroo Formation	3421.079	589.19	0.33	-8.70	Young 1995
Wearing Gorge	Bunyeroo Formation	3418.079	589.27	-2.91	-8.69	Young 1995
Mallee Water	Enorama Shale	1385.5	649.44	6.00	-3.40	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1384.5	649.47	0.50	-3.20	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1383.5	649.50	0.70	-8.60	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1382.5	649.53	5.30	-4.70	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1381.5	649.56	-0.60	-1.00	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1380.5	649.59	4.90	-2.60	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1379.5	649.62	5.40	-2.60	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1378.5	649.65	5.70	-4.20	M ^c Kirdy <i>et al.</i> 2001
Mallee Water	Enorama Shale	1377.5	649.68	4.10	-4.50	M ^c Kirdy <i>et al.</i> 2001
Dedman's bore	Enorama Shale	1376.5	649.71	7.00	-11.80	M ^c Kirdy <i>et al.</i> 2001
Dedman's bore	Enorama Shale	1375.5	649.74	6.60	-9.70	M ^c Kirdy <i>et al.</i> 2001
Dedman's bore	Enorama Shale	1363.5	650.09	4.00	-5.90	M ^c Kirdy <i>et al.</i> 2001
Gum Creek	Wundowie Limestone	1123.6	657.19	8.20	-12.70	M ^c Kirdy <i>et al.</i> 2001
Gum Creek	Wundowie Limestone	1123.6	657.19	8.00	-12.50	M ^c Kirdy <i>et al.</i> 2001
Gum Creek	Wundowie Limestone	1123.6	657.19	7.30	-12.60	M ^c Kirdy <i>et al.</i> 2001

Dedman's bore	Wundowie Limestone	1123.6	657.19	6.50	-11.00	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	938.6	658.93	9.40	-8.20	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	929.6	662.93	5.90	-13.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	928.1	662.98	6.10	-13.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	927	663.01	6.00	-12.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	926	663.04	6.50	-12.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	925.3	663.06	7.20	-13.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	924.2	663.09	7.50	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	923.3	663.12	7.80	-12.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	922.3	663.15	7.90	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	918	663.28	8.00	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	915.9	663.34	8.20	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	914.8	663.37	7.50	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	913.8	663.40	7.80	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	912.8	663.43	7.70	-11.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	911.8	663.46	8.10	-12.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	910.7	663.49	7.90	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	908.3	663.56	8.10	-14.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	907.2	663.60	7.40	-12.80	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	905.6	659.90	8.80	-9.00	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	905.2	663.66	8.30	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	904.1	663.69	8.40	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	903.1	663.72	8.10	-12.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	900.6	663.79	7.90	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	899.7	663.82	8.70	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	898.7	663.85	8.90	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	897.5	663.88	9.00	-11.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	896.2	663.92	9.10	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	895.1	663.96	8.70	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	894.1	663.98	9.00	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	893	664.02	8.70	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	892	664.05	8.70	-12.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	891	664.08	8.70	-12.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	888.8	664.14	7.10	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	887.7	664.17	6.50	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	886.5	664.21	5.10	-10.90	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	882.6	660.58	7.90	-10.80	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	858.6	661.29	9.50	-10.70	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	856	665.11	9.30	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	855	665.14	9.20	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	853.9	665.17	8.90	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	852.9	665.20	9.30	-10.50	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	851.6	661.50	8.90	-10.30	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	851.5	665.25	9.40	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	850.5	665.28	9.40	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	849.5	665.30	9.10	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	837.7	665.65	7.90	-11.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	837	665.67	7.80	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	835.9	665.71	7.20	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	834.7	665.74	6.90	-9.90	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	827.6	662.21	6.90	-11.10	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	825.6	662.27	4.20	-9.50	M ^c Kirdy <i>et al.</i> 2001

Enorama Creek	Etina Formation	790.1	667.06	6.60	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	789.1	667.09	7.10	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	788.1	667.12	7.30	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	787.1	667.15	7.80	-11.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	786	667.18	7.30	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	784.9	667.22	7.80	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	783.9	667.25	8.30	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	782.9	667.28	8.20	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	781.6	667.31	7.60	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	780.6	667.34	4.40	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	779.4	667.38	9.00	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	778.5	667.41	0.60	-8.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	777.6	667.43	9.10	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	776.6	667.46	9.50	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	775.5	667.50	9.20	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	774.5	667.52	5.90	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	773.3	667.56	-2.30	-7.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	772.2	667.59	8.70	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	771.6	667.61	0.70	-7.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	770.4	667.65	9.00	-9.20	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	768.6	663.96	9.30	-7.80	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	768.6	663.96	9.10	-9.40	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	768.4	667.71	3.00	-8.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	768.1	667.71	8.10	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	767.2	667.74	-2.00	-7.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	766.2	667.77	2.30	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	765.1	667.80	5.30	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	758.5	668.00	5.40	-10.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	757.7	668.02	-1.10	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	756.7	668.05	9.20	-12.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	755.6	668.08	8.50	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	754.6	668.11	8.40	-12.70	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	752.6	664.43	9.00	-7.60	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	750.6	664.49	9.60	-8.30	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	727.6	665.17	9.30	-8.50	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	701.6	665.94	9.40	-6.70	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	696.6	669.83	7.70	-13.30	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	682.6	666.50	9.20	-8.10	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	681.6	670.27	9.80	-9.50	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	664.6	667.04	8.90	-7.90	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	653.6	667.36	9.00	-8.30	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	652.6	671.13	10.30	-10.00	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	636.6	667.87	8.60	-8.40	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	630.6	671.78	4.90	-12.10	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	585.6	673.12	8.30	-12.00	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	585.6	669.37	9.40	-7.40	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	581.6	673.23	9.80	-10.00	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	561.6	670.09	7.80	-11.40	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	559.6	670.14	3.20	-7.00	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	529.6	674.77	8.40	-9.70	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	526.9	674.85	6.70	-12.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	525.9	674.88	7.90	-11.90	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina Formation	524.9	674.91	7.50	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	523.8	674.95	8.00	-11.90	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	523.6	674.95	9.60	-9.20	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	522.8	674.98	8.10	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	521.8	675.00	8.00	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	520.8	675.03	8.40	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	519.4	675.08	8.10	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	518.6	675.10	8.70	-11.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	517.6	675.13	8.50	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	515.9	675.18	8.50	-11.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	514	675.24	8.40	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	513	675.27	8.10	-10.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	512	675.29	8.90	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	511.7	675.30	9.10	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	510.2	675.35	9.10	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	509.3	675.37	6.90	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	508.5	675.40	9.20	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	507.5	675.43	8.90	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	506.5	675.46	8.40	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	505.5	675.49	7.70	-10.00	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	503.6	671.80	4.60	-10.70	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	503.6	671.80	4.80	-11.40	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	501.6	675.60	6.80	-9.30	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	499.6	675.66	8.40	-10.90	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	498.9	675.68	9.20	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	497.9	675.71	8.80	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	497.3	675.73	8.70	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	496.3	675.76	9.30	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	495	675.80	8.90	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	494	675.83	9.70	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	493.9	675.83	8.40	-7.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	493.1	675.85	8.60	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	492.2	675.88	7.70	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	491.2	675.91	6.80	-6.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	490.1	675.94	8.90	-8.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	489.3	675.97	8.70	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	488.3	676.00	8.80	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	487.2	676.03	6.90	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	486.3	676.06	7.20	-8.40	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	485.6	676.08	8.80	-10.50	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	485.3	676.09	7.80	-7.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	483.9	676.13	7.90	-7.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	483.1	676.15	9.00	-8.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	480.1	676.24	8.90	-8.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	479	676.27	8.10	-8.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	478	676.30	9.20	-8.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	477.5	676.32	8.90	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	476.5	676.35	8.80	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	475.5	676.38	8.40	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	474.7	676.40	9.10	-7.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	472.7	676.46	9.50	-7.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	471.7	676.49	9.80	-8.10	Swanson-Hysell <i>et al.</i> 2010

First Spring	Etina Formation	471.6	676.49	7.80	-12.40	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	470.7	676.52	9.80	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	467.2	676.62	8.60	-6.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	465.6	676.67	8.50	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	464.5	676.70	8.60	-8.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	462.9	676.75	9.30	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	461.9	676.78	8.70	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	461	676.80	9.00	-8.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	460	676.83	9.30	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	458.9	676.87	8.90	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	457	676.92	9.70	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	455.6	676.96	9.80	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	454.6	676.99	9.80	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	453.6	677.02	9.40	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	452.2	677.06	9.40	-9.70	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	451.6	673.34	8.40	-10.50	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	450.6	677.11	8.30	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	449.8	677.14	7.70	-11.80	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	430.6	673.96	8.80	-8.60	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	401.6	674.82	9.20	-10.30	M ^c Kirdy <i>et al.</i> 2001
First Spring	Etina Formation	388.6	678.95	2.70	-11.20	M ^c Kirdy <i>et al.</i> 2001
Pope's Paddock	Etina Formation	388.6	675.21	9.40	-10.50	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	388.6	678.95	6.10	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	387.6	678.98	8.30	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	386.5	679.01	8.40	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	385.1	679.05	8.30	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	383.7	679.09	1.30	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	382.4	679.13	8.90	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	381.4	679.16	8.70	-7.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	380.4	679.19	9.60	-8.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	379.2	679.23	9.90	-7.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	378.5	679.25	9.60	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	377.7	679.27	9.70	-6.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	376.9	679.29	9.60	-6.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	374.8	679.36	9.70	-6.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	373.8	679.39	6.30	-6.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	372.5	679.42	9.20	-5.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	371.5	679.45	9.40	-5.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	370.4	679.49	9.30	-5.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	369.4	679.52	9.50	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	368.1	679.55	9.20	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	367.1	679.58	9.10	-4.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	366	679.62	9.10	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	364.9	679.65	9.40	-4.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	363.8	679.68	9.20	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	362.6	679.72	9.10	-4.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	361.2	679.76	8.60	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	360.2	679.79	4.40	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	359.2	679.82	8.80	-4.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	355.8	679.92	9.00	-6.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	354.8	679.95	8.40	-7.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	353	680.00	1.30	-6.10	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina Formation	351.8	680.04	5.30	-4.40	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	348.6	680.13	2.00	-9.30	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	346.2	680.20	8.30	-3.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	343.8	680.27	8.70	-4.00	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	343.6	680.28	6.30	-11.80	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	342.7	680.31	8.40	-3.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	338.6	680.43	8.60	-3.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	337.5	680.46	9.10	-3.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	336.5	680.49	8.70	-3.90	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	335.6	680.52	6.60	-11.70	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	335.5	680.52	8.50	-5.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	334.5	680.55	8.30	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	333.4	680.58	9.00	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	332.3	680.61	9.40	-5.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	332.1	680.62	9.30	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	331.5	680.64	8.50	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	330.5	680.67	9.00	-6.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	329.6	680.69	9.50	-6.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	328.6	680.72	8.40	-6.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	328.4	680.73	7.90	-6.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	327.4	680.76	8.00	-5.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	326	680.80	9.50	-6.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	324.9	680.83	7.50	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	324	680.86	7.50	-6.90	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	323.6	680.87	5.30	-11.40	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	322.8	680.90	7.10	-6.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	321.8	680.92	7.00	-6.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	320.7	680.96	8.30	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	319.7	680.99	9.20	-6.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	318.7	681.02	5.60	-6.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	317.7	681.05	7.30	-7.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	316.5	681.08	9.00	-6.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	315.7	681.11	8.10	-6.30	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	314.6	677.40	7.80	-12.30	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	314.2	681.15	8.20	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	312.8	681.19	9.00	-6.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	312	681.21	8.60	-6.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	310.9	681.25	9.50	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	309.9	681.28	8.70	-6.30	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	308.6	681.32	3.30	-11.80	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	307.4	681.35	8.80	-6.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	306.1	681.39	9.30	-7.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	305.1	681.42	9.00	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	303.9	681.45	9.30	-7.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	302.7	681.49	9.20	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	301.8	681.52	8.80	-6.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	300.9	681.54	9.00	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	299.6	681.58	7.80	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	294.5	681.73	8.60	-6.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	293.6	681.76	8.80	-6.20	Swanson-Hysell <i>et al.</i> 2010
Pope's Paddock	Etina Formation	292.6	678.05	5.70	-11.6	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	292.3	681.80	7.60	-5.10	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina Formation	291.2	681.83	8.30	-5.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	290.2	681.86	8.10	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	289.1	681.89	9.00	-4.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	288.1	681.92	9.00	-4.70	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	287.6	681.94	6.80	-10.3	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	287.1	681.95	8.40	-4.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	286.3	681.98	8.90	-4.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	285.1	682.01	8.30	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	284.3	682.03	4.50	-6.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	283.3	682.06	9.00	-3.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	282.3	682.09	8.60	-3.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	281.2	682.13	8.90	-4.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	280	682.16	8.10	-5.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	278.7	682.20	8.90	-4.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	277.5	682.24	8.30	-4.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	276.3	682.27	8.90	-3.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	275.3	682.30	5.60	-5.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	274	682.34	6.10	-5.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	272.6	682.38	8.20	-6.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	271.2	682.42	8.60	-6.40	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	270.6	682.44	3.60	-9.50	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	269.5	682.47	8.20	-6.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	268.5	682.50	7.00	-7.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	267.7	682.53	8.20	-7.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	266.4	682.56	0.40	-9.20	Swanson-Hysell <i>et al.</i> 2010
Mt Emily	Etina Formation	264.6	682.62	8.10	-12.60	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	261.8	682.70	5.40	-10.70	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	221.6	683.89	9.10	-8.80	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	207.4	684.31	3.50	-5.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	203.7	684.42	8.30	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	203.2	684.44	7.90	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	201.2	684.49	8.00	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	200.2	684.52	0.20	-7.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	199.9	684.53	6.60	-8.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	198.8	684.57	8.50	-6.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	197.8	684.60	8.60	-7.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	196.6	684.63	8.30	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	195.8	684.65	8.40	-8.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	195	684.68	7.50	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	193.4	684.73	7.80	-5.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	192	684.77	9.00	-5.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	190.9	684.80	9.00	-4.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	189.9	684.83	9.00	-4.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	189.4	684.84	8.90	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	188.4	684.87	9.10	-5.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	187.3	684.91	9.10	-3.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	186.4	684.93	8.40	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	185.4	684.96	8.20	-6.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	184.4	684.99	8.20	-5.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	183.7	685.01	8.70	-4.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	182.7	685.04	9.40	-4.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	181.7	685.07	9.50	-5.00	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina Formation	180.8	685.10	9.50	-4.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	179.8	685.13	9.60	-3.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	178.6	685.16	9.60	-4.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	177.5	685.20	9.50	-4.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	176.5	685.23	9.00	-4.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	175.5	685.26	9.40	-4.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	174.5	685.28	9.20	-6.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	173.2	685.32	9.30	-6.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	172.2	685.35	9.30	-6.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	171	685.39	9.20	-6.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	169.8	685.42	8.70	-6.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	168.8	685.45	9.40	-5.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	167.4	685.49	9.60	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	166.1	685.53	9.50	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	165.7	685.55	9.50	-4.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	163.6	685.61	9.50	-4.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	163.5	685.61	9.70	-4.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	162.4	685.64	9.60	-4.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	161.4	685.67	9.70	-4.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	160	685.71	9.80	-4.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	158.7	685.75	9.90	-4.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	157.6	685.79	8.70	-6.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	156.6	685.81	8.10	-6.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	155.5	685.85	7.90	-6.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	154.6	685.87	9.20	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	153.4	685.91	8.90	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	152.4	685.94	8.80	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	151.5	685.97	8.60	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	149.5	686.02	8.60	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	147.1	686.10	8.30	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	146.3	686.12	9.60	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	145.1	686.16	9.90	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	143.9	686.19	9.70	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	142.7	686.23	9.80	-6.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	141.3	686.27	9.40	-8.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	140	686.31	9.80	-8.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	138.8	686.34	6.00	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	131.2	686.57	7.30	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	130.8	686.58	7.80	-10.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	116.4	687.00	5.80	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	115.2	687.04	7.30	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	114.3	687.07	5.50	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	112.3	687.13	6.90	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	111.4	687.15	6.20	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	109.7	687.20	5.90	-8.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	108.7	687.23	6.70	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	107.7	687.26	6.30	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	106	687.31	6.80	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	105	687.34	8.20	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	103.9	687.37	8.50	-10.60	Swanson-Hysell <i>et al.</i> 2010
First Spring	Etina Formation	103.6	687.38	5.90	-14.10	M ^c Kirdy <i>et al.</i> 2001
Enorama Creek	Etina Formation	102.2	687.42	8.50	-10.60	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina Formation	101.3	687.45	7.20	-7.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	100.3	687.48	8.20	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	99.2	687.51	8.00	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	98.2	687.54	7.30	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	96.6	687.59	6.70	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	95.4	687.63	6.40	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	94.2	687.66	7.00	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	93.1	687.69	7.70	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	91.9	687.73	7.70	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	91.2	687.75	8.80	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	90	687.79	8.50	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	89	687.82	7.20	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	87.8	687.85	8.20	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	86.7	687.88	7.70	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	85.5	687.92	8.10	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	84.4	687.95	7.70	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	83.3	687.98	6.20	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	82.2	688.02	7.40	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	80.9	688.06	7.90	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	79.7	688.09	8.00	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	78.4	688.13	8.30	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	77.1	688.17	6.90	-7.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	75.8	688.21	7.50	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	74.7	688.24	8.40	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	73.6	688.27	8.90	-6.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	72.1	688.32	7.90	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	70.6	688.36	7.10	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	69.2	688.40	7.20	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	68.6	688.42	7.60	-10.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	67.6	688.45	6.60	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	66.5	688.48	6.90	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	64.6	688.54	8.10	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	63.3	688.58	7.10	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	62.1	688.61	7.10	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	58.9	688.71	8.30	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	57.9	688.74	8.70	-8.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	56.9	688.77	8.30	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	56.2	688.79	8.30	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	55.6	688.80	8.70	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	54.7	688.83	8.70	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina Formation	53.8	688.86	9.00	-9.60	Swanson-Hysell <i>et al.</i> 2010
Mt Emily	Etina Formation	53.6	688.86	8.20	-12.40	M ^c Kirdy <i>et al.</i> 2001

Note: Levels are in combined section of Mawson (1939a, 1939b). New analyses are by Jim Palandri of University of Oregon laboratory of Ilya Bindeman. All analyses are to the Vienna Peedee Belemnite standard NGS 19. Errors (2 σ) are from 10 replicate analyses of the sample.

Table S6. Stable isotopic analyses (‰) of palaeokarst carbonate, Flinders Ranges.

location	Formation	Level (m)	Ma	$\delta^{13}\text{C}_{\text{carb}}$ ‰	$\delta^{18}\text{O}_{\text{carb}}$ ‰	Reference
Parachilna Gorge	Woodendina Dolomite	5716.0	516.72	-3.48	-5.70	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5712.0	516.84	-3.35	-7.10	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5684.0	517.68	-1.62	-6.00	Tucker 1991

Parachilna Gorge	Woodendina Dolomite	5678.0	517.85	-2.72	-7.50	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5671.0	518.06	-3.79	-7.40	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5664.0	518.27	-5.05	-6.60	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5657.0	518.48	-5.88	-6.60	Tucker 1991
Fountain Spring	Woodendina Dolomite	5653.0	518.60	-1.05	-5.90	Tucker 1991
Fountain Spring	Woodendina Dolomite	5633.0	519.19	-1.12	-5.80	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5627.0	519.37	-4.08	-6.30	Tucker 1991
Fountain Spring	Woodendina Dolomite	5623.0	519.49	-1.37	-5.70	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5616.0	519.69	-4.72	-6.20	Tucker 1991
Fountain Spring	Woodendina Dolomite	5613.0	519.78	-1.72	-7.00	Tucker 1991
Fountain Spring	Woodendina Dolomite	5604.0	520.05	-2.08	-5.90	Tucker 1991
Fountain Spring	Woodendina Dolomite	5603.0	520.08	-3.07	-6.20	Tucker 1991
Fountain Spring	Woodendina Dolomite	5599.0	520.20	-2.97	-6.00	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5599.0	520.20	-4.27	-6.70	Tucker 1991
Fountain Spring	Woodendina Dolomite	5597.0	520.26	-3.33	-5.30	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5596.0	520.29	-4.21	-6.50	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5594.0	520.35	-3.97	-6.60	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5591.0	520.44	-3.98	-7.30	Tucker 1991
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-2.44	-18.38	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-5.05	-13.51	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-4.14	-14.93	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-3.82	-17.13	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-2.36	-17.13	Singh 1986
Wirrealpa Hill	Wilkawillina Limestone	5583.0	520.67	-7.35	-8.70	Singh 1986
Parachilna Gorge	Woodendina Dolomite	5582.0	520.70	-4.22	-5.80	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5580.0	520.76	-4.98	-7.20	Tucker 1991
Parachilna Gorge	Woodendina Dolomite	5560.0	521.36	-4.81	-9.70	Tucker 1991
Parachilna Gorge	Parachilna Formation	5556.0	521.48	-4.76	-7.30	Tucker 1991
Parachilna Gorge	Parachilna Formation	5545.0	521.80	-3.16	-7.60	Tucker 1991
Parachilna Gorge	Parachilna Formation	5541.0	521.92	-1.47	-7.30	Tucker 1991
Parachilna Gorge	Parachilna Formation	5530.0	522.25	-2.85	-7.30	Tucker 1991
Parachilna Gorge	Parachilna Formation	5526.0	522.37	-2.01	-6.90	Tucker 1991
First Hill	Wonoka Formation	4162.7	562.86	-3.04	-12.05	Calver 2000
First Hill	Wonoka Formation	4144.2	563.41	-4.18	-11.54	Calver 2000
North Mt Goddard	Wonoka Formation	4133.1	563.74	-4.81	-14.34	Urlwin 1992
First Hill	Wonoka Formation	4123.8	564.01	-4.68	-10.75	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-6.74	-13.07	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.18	-14.89	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.33	-13.68	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.32	-13.68	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-1.99	-4.06	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.52	-14.82	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.05	-15.00	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-6.77	-14.46	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.85	-15.10	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.43	-15.00	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-8.18	-15.12	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-7.85	-14.67	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-6.80	-15.71	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-9.00	-14.07	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-6.74	-13.07	Calver 2000
Umberatana	Wonoka palaeocanyon	4116.0	564.24	-4.40	-10.30	Eickoff <i>et al.</i> 1988

Umberatana	Wonoka palaeocanyon	4116.0	564.24	-2.10	-13.10	Eickoff <i>et al.</i> 1988
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.76	-13.51	Ayliffe 1992
Richmond Valley	Wonoka palaeocanyon	4116.0	564.24	-7.45	-13.09	Ayliffe 1992
Waukarie Creek	Wonoka palaeocanyon	4116.0	564.24	-7.89	-14.71	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.90	-13.24	Ayliffe 1992
Waukarie Creek	Wonoka palaeocanyon	4116.0	564.24	-8.90	-17.14	Ayliffe 1992
Richmond Valley	Wonoka palaeocanyon	4116.0	564.24	-7.37	-13.50	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.36	-13.06	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.48	-13.25	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.53	-13.01	Ayliffe 1992
Waukarie Creek	Wonoka palaeocanyon	4116.0	564.24	-7.77	-14.43	Ayliffe 1992
Bunyeroo Gorge	Wonoka palaeocanyon	4116.0	564.24	-8.09	-13.52	Jansyn 1990
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.55	-13.75	Ayliffe 1992
Richmond Valley	Wonoka palaeocanyon	4116.0	564.24	-8.03	-13.93	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.64	-13.99	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.92	-13.95	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-8.02	-13.62	Ayliffe 1992
Richmond Valley	Wonoka palaeocanyon	4116.0	564.24	-7.98	-14.24	Ayliffe 1992
Waukarie Creek	Wonoka palaeocanyon	4116.0	564.24	-8.41	-15.14	Ayliffe 1992
Pichi Richi Pass	Wonoka palaeocanyon	4116.0	564.24	-7.80	-14.13	Ayliffe 1992
North Mt Goddard	Wonoka Formation	4083.1	565.22	-5.16	-14.67	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	4066.3	565.72	-4.00	-10.97	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4060.1	565.90	-5.25	-10.02	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	4044.2	566.38	-6.03	-9.93	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4033.5	566.69	-5.74	-10.63	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	4020.2	567.09	-6.27	-10.29	Calver 2000
Bunyeroo Gorge	Wonoka Formation	4006.9	567.48	-6.87	-10.51	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3999.8	567.70	-6.36	-10.16	Calver 2000
North Mt Goddard	Wonoka Formation	3998.1	567.75	-6.04	-13.36	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	3987.4	568.06	-6.82	-11.12	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3980.3	568.28	-6.77	-11.02	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3978.5	568.33	-7.08	-12.22	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3953.7	569.07	-7.36	-12.79	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3952.8	569.09	-7.74	-12.87	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3927.1	569.86	-6.51	-11.64	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3920.9	570.04	-7.77	-13.69	Calver 2000
Black Range Springs	Wonoka Formation	3920.1	570.06	-4.91	-14.65	Urlwin 1992
North Mt Goddard	Wonoka Formation	3918.1	570.12	-6.43	-14.73	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	3903.1	570.57	-7.45	-12.68	Calver 2000
Black Range Springs	Wonoka Formation	3901.1	570.63	-6.30	-13.36	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	3900.5	570.65	-7.62	-13.18	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3885.4	571.09	-7.67	-12.57	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3873.8	571.44	-8.62	-13.69	Jansyn 1990
Black Range Springs	Wonoka Formation	3869.1	571.58	-6.14	-14.66	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	3853.4	572.04	-7.72	-12.53	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3847.2	572.23	-7.79	-13.59	Jansyn 1990
North Mt Goddard	Wonoka Formation	3828.1	572.80	-7.54	-15.04	Urlwin 1992
Devils Peak	Wonoka Formation	3821.1	573.00	-1.82	-8.21	Ayliffe 1992
Devils Peak	Wonoka Formation	3821.1	573.00	-0.89	-10.84	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3820.6	573.02	-7.41	-12.62	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3814.4	573.20	-7.45	-12.68	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3797.5	573.70	-7.49	-12.68	Calver 2000

Bunyeroo Gorge	Wonoka Formation	3794.0	573.81	-7.64	-12.48	Jansyn 1990
Devils Peak	Wonoka Formation	3784.2	574.10	-1.17	-12.13	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3767.4	574.60	-7.62	-12.71	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3767.4	574.60	-7.48	-12.78	Jansyn 1990
Devils Peak	Wonoka Formation	3759.1	574.85	-2.49	-11.56	Ayliffe 1992
Devils Peak	Wonoka Formation	3759.1	574.85	-2.50	-11.39	Ayliffe 1992
Black Range Springs	Wonoka Formation	3753.1	575.02	-6.94	-14.15	Urlwin 1992
Bunyeroo Gorge	Wonoka Formation	3740.8	575.39	-7.56	-12.79	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3738.6	575.45	-7.51	-13.12	Calver 2000
Devils Peak	Wonoka Formation	3717.1	576.09	-0.81	-7.51	Ayliffe 1992
Devils Peak	Wonoka Formation	3717.1	576.09	-1.37	-10.45	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3714.2	576.18	-7.42	-12.84	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3708.8	576.34	-8.00	-13.19	Calver 2000
Devils Peak	Wonoka Formation	3702.6	576.52	-1.12	-12.56	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3696.4	576.71	-7.59	-12.89	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3687.5	576.97	-7.66	-12.64	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3686.7	577.00	-8.10	-13.70	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3686.7	577.00	-8.00	-13.53	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3686.7	577.00	-7.98	-13.54	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3675.1	577.34	-8.26	-13.89	Calver 2000
First Hill	Wonoka Formation	3663.7	577.68	-7.71	-13.24	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3660.9	577.76	-7.52	-12.89	Jansyn 1990
Bunyeroo Gorge	Wonoka Formation	3660.0	577.79	-8.52	-13.89	Calver 2000
Black Range Springs	Wonoka Formation	3655.1	577.93	-6.30	-14.20	Urlwin 1992
Devils Peak	Wonoka Formation	3655.1	577.93	-3.91	-10.89	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3636.1	578.50	-9.13	-14.21	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3634.3	578.55	-7.92	-13.97	Jansyn 1990
Devils Peak	Wonoka Formation	3631.1	578.65	-3.87	-12.02	Ayliffe 1992
First Hill	Wonoka Formation	3625.6	578.81	-7.95	-12.88	Calver 2000
Bunyeroo Gorge	Wonoka Formation	3625.5	578.81	-9.47	-14.52	Calver 2000
Devils Peak	Wonoka Formation	3615.1	579.12	-4.19	-11.02	Ayliffe 1992
Mayo Hut	Wonoka Formation	3613.1	579.18	-2.16	-6.69	Dixon 1999
Mayo Hut	Wonoka Formation	3613.1	579.18	-7.27	-10.86	Dixon 1999
Mayo Hut	Wonoka Formation	3613.1	579.18	-2.60	-7.07	Dixon 1999
Bunyeroo Gorge	Wonoka Formation	3613.0	579.18	-10.07	-14.62	Calver 2000
Devils Peak	Wonoka Formation	3600.5	579.56	-5.80	-12.73	Ayliffe 1992
Bunyeroo Gorge	Wonoka Formation	3598.8	579.60	-11.19	-14.98	Calver 2000
Black Range Springs	Wonoka Formation	3583.1	580.07	-7.55	-14.89	Urlwin 1992
First Hill	Wonoka Formation	3571.8	580.41	-8.85	-13.83	Calver 2000
Mayo Hut	Wonoka Formation	3564.1	580.64	-1.46	-7.44	Dixon 1999
Mayo Hut	Wonoka Formation	3564.1	580.64	-7.73	-6.62	Dixon 1999
Mayo Hut	Wonoka Formation	3564.1	580.64	-2.01	-7.56	Dixon 1999
Devils Peak	Wonoka Formation	3560.9	580.73	-7.45	-14.11	Ayliffe 1992
SCYW1a core	Wonoka Formation	3551.4	581.01	-1.93	-7.93	Calver 2000
SCYW1a core	Wonoka Formation	3551.4	581.01	-1.95	-7.60	Calver 2000
First Hill	Wonoka Formation	3529.2	581.67	-10.46	-14.25	Calver 2000
First Hill	Wonoka Formation	3529.2	581.67	-9.77	-13.35	Calver 2000
Mayo Hut	Wonoka Formation	3526.1	581.77	-3.88	-8.88	Dixon 1999
Mayo Hut	Wonoka Formation	3526.1	581.77	-6.74	-13.56	Dixon 1999
Mayo Hut	Wonoka Formation	3526.1	581.77	-4.00	-9.17	Dixon 1999
Bunyeroo Gorge	Wonoka Formation	3519.5	581.96	-3.46	-7.90	Calver 2000
Pichi Richi Pass	Wonoka Formation	3518.1	582.00	-3.41	-8.27	Dixon 1999

Pichi Richi Pass	Wonoka Formation	3518.1	582.00	-6.76	-13.36	Dixon 1999
Pichi Richi Pass	Wonoka Formation	3518.1	582.00	-3.75	-8.77	Dixon 1999
Pamatta Pass	Wonoka Formation	3513.1	582.15	-9.86	-16.42	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-8.19	-15.53	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-7.46	-13.35	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-7.45	-15.67	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-8.05	-15.22	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-8.31	-15.66	Higgins 1997
Pamatta Pass	Wonoka Formation	3513.1	582.15	-7.66	-7.66	Higgins 1997
First Hill	Wonoka Formation	3511.5	582.20	-10.93	-13.91	Calver 2000
First Hill	Wonoka Formation	3511.5	582.20	-11.33	-14.27	Calver 2000
Devils Peak	Wonoka Formation	3508.2	582.30	-7.35	-13.26	Ayliffe 1992
Mayo Hut	Wonoka Formation	3466.1	583.55	-6.00	-11.84	Dixon 1999
First Hill	Wonoka Formation	3453.2	583.93	-2.90	-6.50	Calver 2000
Bunyeroo Gorge	Bunyeroo Formation	3430.3	584.61	-2.43	-2.43	Jansyn 1990
BWM1a-1 core	Nuccaleena Formation	1887.1	630.44	-2.85	-8.04	Calver 2000
BWM1a-1 core	Nuccaleena Formation	1887.0	630.45	-2.51	-8.45	Calver 2000
SCYW1a core	Nuccaleena Formation	1882.7	630.57	-3.06	-7.60	Calver 2000
SCYW1a core	Nuccaleena Formation	1882.7	630.57	-3.06	-7.53	Calver 2000
SCYW1a core	Nuccaleena Formation	1882.7	630.57	-2.26	-7.91	Calver 2000
Umberatana	Nuccaleena Formation	1882.2	630.59	-3.75	-10.90	Calver 2000
Parachilna Gorge	Nuccaleena Formation	1882.0	630.59	-2.02	-9.82	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1880.7	630.63	-1.99	-9.53	Smith 2001
BWM1a-1 core	Nuccaleena Formation	1879.5	630.67	-1.92	-8.14	Calver 2000
Parachilna Gorge	Nuccaleena Formation	1879.0	630.68	-2.19	-7.72	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1879.0	630.68	-2.38	-8.80	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1878.6	630.70	-1.83	-9.06	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1878.2	630.71	-1.98	-8.70	Smith 2001
Enorama Creek GSSP	Nuccaleena Formation	1877.4	630.73	-3.30	n/a	Knoll <i>et al.</i> 2006
Enorama Creek GSSP	Nuccaleena Formation	1877.4	630.73	-3.50	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1877.3	630.73	-2.12	-8.52	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1876.8	630.75	-1.83	-9.06	Smith 2001
Umberatana	Nuccaleena Formation	1876.2	630.77	-2.59	-12.23	Calver 2000
Parachilna Gorge	Nuccaleena Formation	1876.0	630.77	-1.48	-7.72	Smith 2001
Enorama Creek GSSP	Nuccaleena Formation	1875.5	630.79	-2.80	n/a	Knoll <i>et al.</i> 2006
BWM1a-1 core	Nuccaleena Formation	1875.4	630.79	-1.43	-8.13	Calver 2000
Enorama Creek GSSP	Nuccaleena Formation	1875.0	630.80	-2.70	n/a	Knoll <i>et al.</i> 2006
Enorama Creek GSSP	Nuccaleena Formation	1874.9	630.81	-2.60	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1874.4	630.82	-1.65	-8.66	Smith 2001
Enorama Creek GSSP	Nuccaleena Formation	1874.0	630.83	-2.60	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1873.7	630.84	-1.58	-8.60	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1873.5	630.85	-1.54	-8.67	Smith 2001
Parachilna Gorge	Nuccaleena Formation	1873.5	630.85	-1.31	-8.55	Smith 2001
Enorama Creek GSSP	Nuccaleena Formation	1873.3	630.85	-2.60	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1873.2	630.86	-1.06	-8.28	Smith 2001
Enorama Creek GSSP	Nuccaleena Formation	1873.1	630.86	-2.40	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1872.5	630.88	-1.65	-7.75	White 2001
Enorama Creek GSSP	Nuccaleena Formation	1872.3	630.88	-2.50	n/a	Knoll <i>et al.</i> 2006
Parachilna Gorge	Nuccaleena Formation	1872.3	630.88	-1.74	-8.02	Smith 2001
Umberatana	Nuccaleena Formation	1872.2	630.89	-2.24	-12.68	Calver 2000
BWM1a-1 core	Nuccaleena Formation	1871.7	630.90	-1.27	-7.61	Calver 2000
Parachilna Gorge	Nuccaleena Formation	1871.4	630.91	-1.45	-7.45	Smith 2001

Parachilna Gorge	Nuccaleena Formation	1871.2	630.92	-2.20	n/a	Knoll <i>et al.</i> 2006
UB17 core	Nuccaleena Formation	1870.4	630.94	-1.28	-8.18	Calver 2000
UB17 core	Nuccaleena Formation	1862.9	631.16	-2.78	-8.62	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1862.3	631.18	-3.49	-8.24	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1861.2	631.21	-3.07	-8.28	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1859.7	631.26	-2.76	-7.76	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1857.0	631.34	-2.44	-8.37	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1856.1	631.36	-2.25	-8.23	Calver 2000
Bunyeroo Gorge	Nuccaleena Formation	1855.2	631.39	-1.97	-7.84	Calver 2000
Bulls Gap	Trezona Formation	1846.0	631.66	-2.70	-11.03	Singh 1986; McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1846.0	631.66	-2.81	-11.26	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1846.0	631.66	-2.90	-13.89	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1846.0	631.66	-2.75	-11.65	Singh 1986; McKirdy <i>et al.</i> 2001
Werta	Trezona Formation	1846.0	631.66	-4.01	-10.81	Singh 1986; McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1814.0	632.61	-3.89	-10.67	Singh 1986; McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1814.0	632.61	-3.52	-11.10	Singh 1986; McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1814.0	632.61	-3.12	-8.50	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1814.0	632.61	-3.96	-14.74	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1814.0	632.61	-3.84	-9.85	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1814.0	632.61	-3.00	-13.25	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1757.0	634.31	5.00	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1752.0	634.46	-6.45	-12.64	Singh 1986; McKirdy <i>et al.</i> 2001
Werta	Trezona Formation	1752.0	634.46	-6.61	-9.76	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1728.6	635.15	-3.50	-12.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1728.4	635.16	-3.40	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1727.4	635.19	-3.40	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1726.4	635.22	-3.80	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1725.9	635.23	-3.60	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1725.4	635.25	-3.40	-11.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1724.3	635.28	-3.30	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1723.8	635.29	-3.30	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1723.5	635.30	-3.30	-10.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1723.2	635.31	-3.30	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1722.2	635.34	-3.20	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1721.4	635.36	-3.40	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1720.6	635.39	-3.50	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1719.7	635.41	-3.10	-10.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1718.7	635.44	-2.90	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1718.0	635.47	-3.50	-10.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1716.6	635.51	-3.30	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1715.4	635.54	-3.10	-10.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1714.5	635.57	-3.30	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1713.7	635.59	-3.10	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1712.6	635.63	-3.40	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1712.0	635.64	-4.30	-10.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1711.0	635.67	-3.70	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1709.9	635.71	-3.60	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1708.9	635.74	-3.60	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1707.9	635.77	-3.40	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1706.9	635.80	-3.90	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1706.0	635.82	-7.30	-11.02	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1706.0	635.82	-7.11	-12.01	Singh 1986; McKirdy <i>et al.</i> 2001

Enorama Creek	Trezona Formation	1706.0	635.82	-7.23	-8.38	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1706.0	635.82	-7.35	-11.06	Singh 1986; McKirdy <i>et al.</i> 2001
Werta	Trezona Formation	1706.0	635.82	-7.84	-13.60	Singh 1986; McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1705.9	635.82	-3.60	-10.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1704.9	635.85	-3.50	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1704.2	635.88	-3.70	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1703.0	635.91	-3.60	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1702.0	635.94	-3.60	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1700.9	635.97	-3.70	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1700.0	636.00	-3.70	-10.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1699.3	636.02	-3.80	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1698.1	636.06	-3.70	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1696.7	636.10	-3.70	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1695.5	636.13	-3.90	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1694.5	636.16	-4.10	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1693.5	636.19	-4.10	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1692.2	636.23	-4.20	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1691.5	636.25	-4.20	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1691.0	636.27	-4.10	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1690.3	636.29	-4.10	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1689.1	636.32	-4.70	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1688.1	636.35	-4.20	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1686.3	636.41	-4.70	-9.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1685.8	636.42	-4.50	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1685.1	636.44	-4.50	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1683.9	636.48	-4.90	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1681.9	636.54	-4.50	-8.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1681.7	636.54	-4.50	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1681.4	636.55	-5.20	-8.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1680.5	636.58	-4.50	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1679.5	636.61	-4.70	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1678.1	636.65	-4.60	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1676.8	636.69	-4.90	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1674.9	636.75	-5.10	-8.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1673.9	636.78	-5.30	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1673.1	636.80	-5.30	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1672.1	636.83	-4.80	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1671.2	636.86	-5.30	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1670.5	636.88	-4.80	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1669.8	636.90	-4.80	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1669.1	636.92	-5.00	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1668.1	636.95	-4.70	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1666.6	636.99	-5.50	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1665.5	637.02	-5.40	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1664.5	637.05	-5.40	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1663.7	637.08	-5.10	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1663.6	637.08	-6.20	-8.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1662.1	637.13	-5.60	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1661.1	637.16	-5.70	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1660.1	637.19	-5.20	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1658.9	637.22	-5.50	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1658.7	637.23	-5.30	-9.40	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Trezona Formation	1657.8	637.25	-5.50	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1656.7	637.29	-5.40	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1655.8	637.31	-5.50	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1654.6	637.35	-5.50	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1654.1	637.36	-5.50	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1653.8	637.37	-5.90	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1652.1	637.42	-5.70	-8.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1651.1	637.45	-5.70	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1650.3	637.48	-5.90	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1650.0	637.49	-5.90	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1649.5	637.50	-5.80	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1648.7	637.52	-5.60	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1647.6	637.56	-5.50	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1646.7	637.58	-5.70	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1645.4	637.62	-5.90	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1644.0	637.66	-6.10	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1643.3	637.68	-6.10	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1642.3	637.71	-6.20	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1641.6	637.73	-6.20	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1640.6	637.76	-5.80	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1639.4	637.80	-5.90	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1638.2	637.84	-5.70	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1638.0	637.84	-5.90	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1637.6	637.85	-5.90	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1636.0	637.90	-5.80	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1634.8	637.94	-6.00	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1633.5	637.98	-6.00	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1632.4	638.01	-6.20	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1632.3	638.01	-6.00	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1632.1	638.02	-6.30	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1631.1	638.05	-6.10	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1630.1	638.08	-6.10	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1629.4	638.10	-6.10	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1628.4	638.13	-6.40	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1627.5	638.15	-6.40	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1626.8	638.17	-6.40	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1625.4	638.22	-6.90	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1624.6	638.24	-6.30	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1624.3	638.25	-6.40	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1623.4	638.28	-6.50	-9.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1622.7	638.30	-6.50	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1619.9	638.38	-6.20	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1619.3	638.40	-6.40	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1618.0	638.44	-6.70	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1617.5	638.45	-6.60	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1616.9	638.47	-6.60	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1615.5	638.51	-6.70	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1614.7	638.53	-6.70	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1614.2	638.55	-6.80	-9.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1613.7	638.56	-6.80	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1613.4	638.57	-7.30	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1612.7	638.59	-7.40	-7.60	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Trezona Formation	1612.0	638.61	-7.30	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1610.8	638.65	-7.40	-8.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1609.2	638.70	-7.10	-9.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1607.2	638.76	-7.30	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1606.5	638.78	-7.20	-9.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1605.3	638.81	-7.70	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1599.7	638.98	-7.40	-10.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1596.6	639.07	-7.30	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1595.6	639.10	-7.20	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1595.1	639.12	-7.50	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1594.0	639.15	-7.60	-9.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1593.8	639.15	-7.60	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1593.0	639.18	-7.60	-10.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1592.2	639.20	-7.40	-10.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1591.2	639.23	-7.70	-8.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1590.1	639.26	-7.70	-9.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1589.5	639.28	-7.70	-8.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1588.6	639.31	-8.00	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1587.8	639.33	-7.90	-9.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1586.8	639.36	-7.60	-8.50	Swanson-Hysell <i>et al.</i> 2010
Brachina Road	Trezona Formation	1586.0	639.39	-5.70	-1.80	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-4.30	-10.60	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-3.00	-10.70	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-3.10	-10.30	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-3.00	-10.90	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-3.00	-10.80	McKirdy <i>et al.</i> 2001
Brachina Road	Trezona Formation	1586.0	639.39	-2.90	-11.30	McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1585.6	639.40	-7.40	-8.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1584.8	639.42	-7.70	-10.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1584.1	639.44	-7.50	-8.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1583.6	639.46	-7.50	-9.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1582.8	639.48	-7.50	-10.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1581.8	639.51	-7.70	-11.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1581.0	639.53	-7.50	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1579.4	639.58	-7.70	-11.30	Swanson-Hysell <i>et al.</i> 2010
Bulls Gap	Trezona Formation	1577.0	639.65	-8.80	-6.30	McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1576.0	639.68	-4.40	-9.90	McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1575.4	639.70	-8.10	-10.80	Swanson-Hysell <i>et al.</i> 2010
Bulls Gap	Trezona Formation	1575.0	639.71	-9.40	-5.80	McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1574.8	639.72	-8.30	-11.40	Swanson-Hysell <i>et al.</i> 2010
Bulls Gap	Trezona Formation	1574.0	639.74	-5.40	-7.00	McKirdy <i>et al.</i> 2001
Bulls Gap	Trezona Formation	1573.0	639.77	-4.80	-9.30	McKirdy <i>et al.</i> 2001
Enorama Creek	Trezona Formation	1566.0	639.98	-9.80	-7.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1565.3	640.00	-8.50	-9.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1564.4	640.03	-7.90	-10.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1563.5	640.05	-8.10	-11.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1560.8	640.13	-9.60	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1558.4	640.21	-8.80	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1557.7	640.23	-9.20	-11.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1557.1	640.24	-8.40	-11.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1556.2	640.27	-8.10	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1555.2	640.30	-8.30	-11.70	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Trezona Formation	1554.0	640.34	-8.60	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1551.6	640.41	-8.70	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1550.7	640.43	-8.70	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1548.5	640.50	-8.60	-11.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1546.4	640.56	-8.90	-11.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1544.3	640.62	-8.30	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1539.6	640.76	-9.40	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1539.3	640.77	-8.90	-12.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1538.5	640.80	-8.80	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1538.2	640.81	-8.90	-10.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1537.5	640.83	-8.30	-11.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1534.3	640.92	-8.50	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1534.0	640.93	-8.30	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1533.5	640.95	-8.20	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1532.3	640.98	-8.10	-11.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1531.5	641.00	-8.20	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1530.3	641.04	-8.30	-12.00	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1529.9	641.05	-8.70	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1528.9	641.08	-8.10	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1525.6	641.18	-8.80	-11.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1524.9	641.20	-8.50	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1524.1	641.22	-8.60	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1521.9	641.29	-9.50	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1520.8	641.32	-8.80	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1520.4	641.33	-9.70	-12.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1518.7	641.38	-8.60	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1516.4	641.45	-9.00	-11.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1514.7	641.50	-8.30	-12.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1513.3	641.54	-8.80	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1513.2	641.55	-8.80	-11.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1513.2	641.55	-8.30	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1512.9	641.56	-8.60	-12.20	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1511.8	641.59	-8.40	-11.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1505.3	641.78	-8.80	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1504.7	641.80	-8.70	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1503.5	641.84	-8.50	-12.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1495.3	642.08	-9.50	-12.10	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1493.4	642.14	-8.70	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1493.1	642.14	-8.60	-11.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1491.8	642.18	-8.10	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1491.5	642.19	-8.20	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1491.1	642.20	-8.20	-12.60	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1484.4	642.40	-8.60	-12.40	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1482.0	642.47	-8.60	-12.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1474.1	642.71	-8.60	-12.90	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1473.2	642.74	-8.40	-12.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1472.5	642.76	-8.50	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1471.9	642.77	-8.60	-12.30	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1471.9	642.77	-8.50	-12.80	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1470.9	642.80	-8.70	-11.70	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1469.3	642.85	-8.80	-12.50	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona Formation	1457.5	643.20	-8.60	-12.60	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Trezona Formation	1457.3	643.21	-8.70	-13.00	Swanson-Hysell <i>et al.</i> 2010
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Table S6. Stable isotopic analyses (‰) of palaeosol carbonate, Flinders Ranges.

Location	Formation	Pedotype	R# rock	Level (m)	Ma	$\delta^{13}\text{C}_{\text{carb}}$ ‰	$\delta^{18}\text{O}_{\text{carb}}$ ‰	author
Ten Mile Creek	Pantapinna	Warru	R3347	8062.2	503	-3.88	-6.45	Retallack 2008
Ten Mile Creek	Pantapinna	Warru	R3347	8062.2	503	-2.88	-5.51	Retallack 2008
Ten Mile Creek	Balcoracana	Warru	R3341	7673.0	508	-5.05	-5.40	Retallack 2008
Ten Mile Creek	Balcoracana	Warru	R3341	7673.0	508	-4.95	-5.29	Retallack 2008
Ten Mile Creek	Moodlatana	Natala	R3555	7662.8	508	-10.15	-6.42	Retallack 2008
Ten Mile Creek	Moodlatana	Natala	R3555	7662.8	508	-10.00	-6.47	Retallack 2008
Ten Mile Creek	Moodlatana	Viparri	R3556	7662.2	508	-7.21	-6.71	Retallack 2008
Ten Mile Creek	Moodlatana	Viparri	R3556	7662.2	508	-7.11	-6.64	Retallack 2008
Ten Mile Creek	Moodlatana	Warru	R3571	7590.8	509	-9.14	-5.76	Retallack 2008
Ten Mile Creek	Moodlatana	Warru	R3571	7590.8	509	-9.13	-5.71	Retallack 2008
Ten Mile Creek	Moodlatana	Warru	R3381	7585.8	509	-8.70	-5.30	Retallack 2008
Ten Mile Creek	Moodlatana	Warru	R3381	7585.8	509	-8.77	-5.35	Retallack 2008
Ten Mile Creek	Moodlatana	Natala	R3569	7322.1	512	-0.64	-15.84	Retallack 2008
Ten Mile Creek	Moodlatana	Natala	R3569	7322.1	512	-0.59	-15.85	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3567	7245.2	513	-2.82	-16.55	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3567	7245.2	513	-2.90	-16.39	Retallack 2008
Ten Mile Creek	Billy Creek	Irkili	R3568	7228.0	513	-2.56	-17.11	Retallack 2008
Ten Mile Creek	Billy Creek	Irkili	R3568	7228.0	513	-2.49	-17.09	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3563	6935.3	517	-7.63	-5.69	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3563	6935.3	517	-7.68	-5.74	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3561	6464.6	523	-4.28	-5.35	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3561	6464.6	523	-4.22	-5.35	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3376	6464.6	523	-1.72	-6.16	Retallack 2008
Ten Mile Creek	Billy Creek	Warru	R3376	6464.6	523	-1.26	-5.99	Retallack 2008
Parachilna Gorge	Parachilna	Mata	R3288	5176.7	537	-7.15	-7.11	Retallack 2008
Parachilna Gorge	Parachilna	Watuna	R3301	5169.8	537	-2.82	-2.82	Retallack 2008
Parachilna Gorge	Parachilna	Watuna	R3301	5169.8	537	-2.60	-2.26	Retallack 2008
Parachilna Gorge	Parachilna	Mata	R3277	5160.2	538	-6.33	-4.72	Retallack 2008
Parachilna Gorge	Parachilna	Mata	R3277	5160.2	538	-6.54	-4.85	Retallack 2008
Hookapunna Well	Uratanna	Valkarra	R3529	4975.0	543	-5.80	-6.13	herein
Hookapunna Well	Uratanna	Valkarra	R3529	4975.0	543	-5.76	-5.93	herein
Brachina Gorge	Rawnsley	Yaldati	R3274	4916.1	545	-8.66	-4.80	herein
Brachina Gorge	Rawnsley	Yaldati	R3274	4916.1	545	-8.84	-4.79	herein
Ediacara #3 bore	Ediacara	Yaldati	#1553475	4760.9	550	-5.75	-6.20	Retallack 2012, 2013
Ediacara #3 bore	Ediacara	Yaldati	#1553475	4760.9	550	-5.89	-6.18	Retallack 2012, 2013
Hookapunna Well	Ediacara	Yaldati	R3526	4757.4	550	-2.74	-5.58	Retallack 2012, 2013
Hookapunna Well	Ediacara	Yaldati	R3526	4757.4	550	-1.62	-6.14	Retallack 2012, 2013
Ediacara Hills	Ediacara	Yaldati	R3522	4735.7	550	-4.12	-4.44	Retallack 2012, 2013
Ediacara Hills	Ediacara	Yaldati	R3522	4735.7	550	-3.86	-4.14	Retallack 2012, 2013
Brachina Gorge	Bonney	Yaldati	R3269	4564.9	555	-5.00	-1.66	herein
Brachina Gorge	Bonney	Yaldati	R3269	4564.9	555	-5.17	-1.84	herein
Brachina Gorge	Bonney	Yaldati	R3267	4530.1	556	-9.89	-6.27	herein
Brachina Gorge	Bonney	Yaldati	R3267	4530.1	556	-8.82	-6.30	herein
Brachina Gorge	Bonney	Yaldati	R3471	4471.8	558	-3.97	-14.5	herein
Brachina Gorge	Bonney	Yaldati	R3471	4471.8	558	-4.01	-13.92	herein

Brachina Gorge	Bonney	Yaldati	R3257	4252.6	565	-7.22	-4.68	herein
Brachina Gorge	Bonney	Yaldati	R3257	4252.6	565	-7.26	-4.58	herein
Brachina Gorge	Bonney	Vulda	R3477	4133.9	568	-4.13	-4.92	herein
Brachina Gorge	Bonney	Vulda	R3477	4133.9	568	-3.08	-4.52	herein
Umberatana	Wonoka	Vidla		4116.0	567	-7.20	-15.1	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-8.20	-15.6	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-8.40	-15.2	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-8.70	-15.8	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-8.90	-15.3	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-9.00	-15.9	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-9.20	-15.4	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-9.10	-14.6	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-9.30	-14.8	Eickoff <i>et al.</i> 1988
Umberatana	Wonoka	Vidla		4116.0	567	-10.10	-15.5	Eickoff <i>et al.</i> 1988
Pamatta Pass	canyon wall	Vidla	KM	4116.0	567	-9.08	-17.54	Higgins 1997
Pamatta Pass	canyon wall	Vidla	A1	4116.0	567	-8.50	-15.65	Higgins 1997
Pamatta Pass	canyon wall	Vidla	B6	4116.0	567	-8.86	-14.62	Higgins 1997
Pamatta Pass	canyon wall	Vidla	D12	4116.0	567	-8.64	-15.35	Higgins 1997
Pamatta Pass	canyon wall	Vidla	F15	4116.0	567	-7.85	-15.38	Higgins 1997
Pamatta Pass	canyon wall	Vidla	V3	4116.0	567	-8.84	-10.22	Higgins 1997
Pamatta Pass	canyon wall	Vidla	V21	4116.0	567	-8.55	-17.36	Higgins 1997
Bunyeroo Gorge	Bunyeroo	Vulda	0.002	3900.0	575	-2.37	-6.55	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	0.002	3900.0	575	-2.44	-6.54	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	5.10	3778.0	579	-6.79	-14.87	Calver, 2000
Bunyeroo Gorge	Bunyeroo	Vulda	0.4BW	3233.0	595	-2.37	-5.95	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	0.4BW	3233.0	595	-1.99	-5.76	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	R3492	3233.0	595	-1.55	-6.93	herein
Bunyeroo Gorge	Bunyeroo	Vulda	R3492	3233.0	595	-1.69	-7.23	herein
Bunyeroo Gorge	Bunyeroo	Vulda	1BW	3232.0	595	-1.19	-6.87	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	1BW	3232.0	595	-0.85	-4.87	Young 1995
Bunyeroo Gorge	Bunyeroo	Vulda	R3496	3232.0	595	-0.29	-6.20	herein
Bunyeroo Gorge	Bunyeroo	Vulda	R3496	3232.0	595	-0.87	-6.64	herein
Parachilna Gorge	Brachina	Alpa	PG41	1885.0	635	-1.93	-9.8	Smith 2001
Enorama Creek	Brachina	Alpa	R3515	1884.0	635	-1.77	-8.09	Retallack 2011
Enorama Creek	Brachina	Alpa	R3515	1884.0	635	-1.41	-7.60	Retallack 2011
Parachilna Gorge	Brachina	Alpa	PG40	1884.0	635	-2.03	-9.80	Smith 2001
Parachilna Gorge	Nuccaleena	Ika	PG36	1880.0	635	-1.98	-8.94	Smith 2001
Parachilna Gorge	Nuccaleena	Ika	PG42	1880.0	635	-1.71	-10.04	Smith 2001
Enorama Creek	Nuccaleena	Ika		1873.0	635	-3.00	-6.90	Williams 1979
Bunyeroo Gorge	Nuccaleena	Ika		1873.0	635	-3.49	-8.24	Knoll <i>et al.</i> 2006
Bunyeroo Gorge	Nuccaleena	Ika		1873.0	635	-3.07	-8.28	Knoll <i>et al.</i> 2006
Enorama Creek	Nuccaleena	Ika		1971.0	635	-2.00	-8.30	Williams 1979

Table S7. Stable isotopic analyses (‰) of organic carbon, Flinders Ranges

Locality	Formation	Pedo-type	Sample	Level (m)	Ma	$\delta^{13}\text{C}$ ave	$\delta^{13}\text{C}$ stdev	%C ave	Reference
Ten Mile Creek	Moodlatana	Natala	R3555	7662.8	463.63	-23.10	0.09	0.060	herein
Ten Mile Creek	Moodlatana	Viparri	R3556	7662.2	463.65	-23.10	0.09	0.060	herein
Ten Mile Creek	Moodlatana	Viparri	R3556	7662.2	463.65	-23.10	0.09	0.060	herein
Ten Mile Creek	Moodlatana	Warru	R3571	7590.8	465.76	-26.36	0.05	0.070	herein
Ten Mile Creek	Moodlatana	Warru	R3571	7590.8	465.76	-26.36	0.05	0.070	herein

Ten Mile Creek	Billy Creek	Warru	R3563	6935.3	485.17	-24.77	0.21	0.030	herein
Ten Mile Creek	Billy Creek	Warru	R3563	6935.3	485.17	-24.77	0.21	0.030	herein
Ten Mile Creek	Billy Creek	Warru	R3561	6464.6	499.10	-23.71	0.12	0.050	herein
Ten Mile Creek	Billy Creek	Warru	R3561	6464.6	499.10	-23.71	0.12	0.050	herein
Hookapunna Well	Uratanna	Valbarra	R3529	5103.0	539.40	-28.50	0.19	0.070	herein
Hookapunna Well	Uratanna	Valbarra	R3529	5103.0	539.40	-28.50	0.19	0.070	herein
Hookapunna Well	Uratanna	Valbarra	R3529	4975.0	538.79	-28.50	n/a	0.070	herein
Hookapunna Well	Uratanna	Valbarra	R3529	4975.0	538.79	-28.50	n/a	0.070	herein
Ediacara bore E3	Ediacara	Yaldati	#1553475	4760.9	549.53	-26.49	0.36	0.010	herein
Ediacara bore E3	Ediacara	Yaldati	#1553475	4760.9	549.53	-24.36	0.14	0.030	herein
Hookapunna Well	Ediacara	Yaldati	R3526	4757.4	549.63	-26.49	0.36	0.010	herein
Hookapunna Well	Ediacara	Yaldati	R3526	4757.4	549.63	-24.36	0.14	0.030	herein
Ediacara Hills	Ediacara	Yaldati	R3522	4735.7	550.27	-26.49	0.36	0.010	herein
Ediacara Hills	Ediacara	Yaldati	R3522	4735.7	550.27	-24.36	0.14	0.030	herein
Brachina Gorge	Bonney	Yaldati	R3472	4471.8	558.08	-26.49	0.36	0.010	herein
Brachina Gorge	Bonney	Yaldati	R3472	4471.8	558.08	-24.36	0.14	0.030	herein
Bunyeroo Gorge	Wonoka	(marine)	micrite	4111.7	555.28	-29.55	n/a	0.500	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	oolitic	4107.6	555.35	-30.22	n/a	0.200	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	limestone	4106.8	555.37	-28.52	n/a	0.220	Calver 2000
First Hill	Wonoka	(marine)	micrite	4104.3	555.42	-24.30	n/a	0.100	Calver 2000
First Hill	Wonoka	(marine)	micrite	4098.9	555.52	-26.05	n/a	0.070	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	limestone	4098.1	555.54	-25.80	n/a	0.270	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	limestone	4096.4	555.57	-24.77	n/a	0.420	Calver 2000
First Hill	Wonoka	(marine)	micrite	4093.0	555.63	-25.89	n/a	0.140	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	mudstone	4091.2	555.67	-23.08	n/a	0.540	Calver 2000
First Hill	Wonoka	(marine)	micrite	4089.0	555.71	-25.63	n/a	0.120	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	mudstone	4087.5	555.74	-22.56	n/a	0.490	Calver 2000
First Hill	Wonoka	(marine)	micrite	4080.0	555.88	-25.98	n/a	0.280	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	limestone	4078.0	555.92	-22.20	n/a	0.260	Calver 2000
First Hill	Wonoka	(marine)	micrite	4073.3	556.01	-26.96	n/a	0.280	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4070.2	556.07	-23.48	n/a	0.140	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	limestone	4063.6	556.20	-25.80	n/a	0.150	Calver 2000
First Hill	Wonoka	(marine)	micrite	4063.1	556.20	-25.15	n/a	0.140	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4059.6	556.27	-22.85	n/a	0.090	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4056.7	556.33	-23.30	n/a	0.260	Calver 2000
First Hill	Wonoka	(marine)	micrite	4052.7	556.40	-25.69	n/a	0.120	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4048.3	556.49	-22.20	n/a	0.210	Calver 2000
First Hill	Wonoka	(marine)	micrite	4046.9	556.52	-24.07	n/a	0.180	Calver 2000
First Hill	Wonoka	(marine)	micrite	4040.4	556.64	-22.72	n/a	0.160	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4032.2	556.80	-22.86	n/a	0.270	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4016.1	557.10	-22.70	n/a	0.300	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	4016.1	557.10	-22.68	n/a	0.370	Calver 2000
First Hill	Wonoka	(marine)	micrite	4004.9	557.32	-22.20	n/a	0.120	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	micrite	3997.9	557.45	-22.30	n/a	0.110	Calver 2000
First Hill	Wonoka	(marine)	micrite	3988.6	557.63	-22.54	n/a	0.140	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	gray shale	3978.6	557.82	-22.75	n/a	0.340	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	dolostone	3958.8	558.20	-22.72	n/a	0.390	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	green shale	3946.1	558.44	-22.80	n/a	0.120	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	siltstone	3918.1	558.97	-23.47	n/a	0.630	Calver 2000
Bunyeroo Gorge	Wonoka	(marine)	dolotone	3907.5	559.18	-23.84	n/a	0.190	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	mudstone	3846.1	560.35	-23.78	n/a	0.220	Calver 2000

Bunyeroo Gorge	Bunyeroo	(marine)	mudstone	3846.1	560.35	-23.38	n/a	0.220	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	mudstone	3718.9	562.78	-23.82	n/a	0.230	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3652.6	564.05	-24.05	n/a	0.290	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	nodule	3618.1	564.70	-24.52	n/a	0.280	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3565.1	565.72	-25.87	n/a	0.480	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3493.5	567.08	-25.12	n/a	0.360	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3493.5	567.08	-24.55	n/a	0.340	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3326.4	570.28	-24.07	n/a	0.190	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3326.0	570.28	-23.52	n/a	0.210	Calver 2000
SCYW1a core	Bunyeroo	(marine)	green shale	3318.8	570.42	-24.48	n/a	0.730	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	nodule	3295.0	570.88	-31.82	n/a	0.760	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3295.0	570.88	-27.25	n/a	0.450	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	nodule	3265.0	571.45	-29.87	n/a	0.520	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3251.0	571.72	-27.23	n/a	0.490	Calver 2000
SCYW1a core	Bunyeroo	(marine)	green shale	3247.8	571.78	-25.13	n/a	0.630	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	mudstone	3236.3	572.00	-23.47	n/a	0.140	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	blue shale	3207.0	572.56	-32.35	n/a	3.870	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	blue shale	3184.0	573.00	-33.14	n/a	7.850	Calver 2000
SCYW1a core	Bunyeroo	(marine)	green shale	3183.9	573.00	-24.55	n/a	0.510	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	blue shale	3180.0	573.07	-31.79	n/a	4.370	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	blue shale	3144.0	573.76	-33.81	n/a	17.050	Calver 2000
SCYW1a core	Bunyeroo	(marine)	mudstone	3138.0	573.87	-23.09	n/a	0.440	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	siltstone	3132.9	573.97	-23.20	n/a	0.170	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3130.0	574.03	-27.22	n/a	0.180	Calver 2000
Bunyeroo Gorge	Bunyeroo	(marine)	mudstone	3103.7	574.53	-22.98	n/a	0.160	Calver 2000
SCYW1a core	Bunyeroo	(marine)	mudstone	3095.7	574.68	-24.22	n/a	0.160	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3077.0	575.04	-23.71	n/a	0.260	Calver 2000
SCYW1a core	Bunyeroo	(marine)	mudstone	3075.7	575.06	-25.50	n/a	0.160	Calver 2000
Brachina Gorge	Bunyeroo	(marine)	mudstone	3061.0	575.34	-22.12	n/a	0.290	Calver 2000
SCYW1a core	Bunyeroo	(marine)	mudstone	3036.1	575.82	-24.10	n/a	0.050	Calver 2000
SCYW1a core	Bunyeroo	(marine)	mudstone	3002.0	576.47	-24.47	n/a	0.130	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2975.0	576.99	-28.04	n/a	1.540	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2952.7	577.41	-26.00	n/a	0.630	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2932.5	577.80	-28.19	n/a	0.970	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2892.8	578.56	-28.84	n/a	1.690	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2852.8	579.32	-27.34	n/a	1.020	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2852.8	579.32	-27.34	n/a	1.020	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2852.8	579.32	-26.97	n/a	0.590	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2852.8	579.32	-26.97	n/a	0.590	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2840.5	579.56	-28.28	n/a	0.990	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2795.9	580.41	-28.90	n/a	1.700	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2752.1	581.24	-26.79	n/a	0.860	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2752.1	581.24	-26.79	n/a	0.860	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2752.1	581.24	-26.60	n/a	0.780	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2752.1	581.24	-25.49	n/a	0.500	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2752.1	581.24	-25.49	n/a	0.500	Calver 2000
Bunyeroo Gorge	ABC Range	(marine)	mudstone	2668.8	582.84	-24.72	n/a	0.520	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2638.3	583.42	-25.87	n/a	0.650	Calver 2000
Bunyeroo Gorge	ABC Range	(marine)	mudstone	2585.8	584.42	-24.33	n/a	0.420	Calver 2000
Bunyeroo Gorge	ABC Range	(marine)	mudstone	2542.6	585.25	-23.05	n/a	0.410	Calver 2000
SCYW1a core	ABC Range	(marine)	mudstone	2494.7	586.16	-26.19	n/a	0.800	Calver 2000
Bunyeroo Gorge	ABC Range	(marine)	mudstone	2432.9	587.34	-23.70	n/a	0.250	Calver 2000

Bunyeroo Gorge	ABC Range	(marine)	mudstone	2432.9	587.34	-23.57	n/a	0.250	Calver 2000
Bunyeroo Gorge	ABC Range	(marine)	mudstone	2432.9	587.34	-23.27	n/a	0.190	Calver 2000
SCYW1a core	ABC Range	(marine)	gray shale	2413.6	587.71	-26.16	n/a	1.330	Calver 2000
SCYW1a core	Brachina	(marine)	shale	2372.2	588.50	-26.67	n/a	0.820	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2345.4	589.01	-23.89	n/a	0.320	Calver 2000
SCYW1a core	Brachina	(marine)	gray shale	2310.5	589.68	-26.54	n/a	1.070	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2273.8	590.38	-23.00	n/a	0.370	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2263.8	590.57	-26.90	n/a	1.500	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2225.5	591.30	-23.17	n/a	0.450	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2189.3	591.99	-27.05	n/a	1.340	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2174.3	592.28	-23.22	n/a	0.450	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2133.7	593.06	-29.35	n/a	1.160	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2133.7	593.06	-27.69	n/a	1.300	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2124.3	593.24	-23.99	n/a	0.650	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2124.3	593.24	-23.75	n/a	0.720	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2095.3	593.79	-25.97	n/a	0.870	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	2047.6	594.70	-23.65	n/a	0.350	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2041.7	594.81	-29.61	n/a	1.100	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2041.7	594.81	-25.96	n/a	0.760	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2021.0	595.21	-25.62	n/a	0.750	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2021.0	595.21	-24.93	n/a	0.720	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	2002.2	595.57	-29.23	n/a	1.190	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	1977.1	596.05	-23.19	n/a	0.590	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	1955.6	596.46	-25.89	n/a	0.910	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	1916.2	597.21	-26.55	n/a	0.880	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	mudstone	1908.3	597.36	-23.27	n/a	0.610	Calver 2000
Bunyeroo Gorge	Brachina	(marine)	gray shale	1894.7	597.62	-23.35	n/a	0.560	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	1893.1	597.65	-24.89	n/a	0.890	Calver 2000
BWM1a-1	Brachina	(marine)	blue shale	1885.3	597.80	-32.19	n/a	2.500	Calver 2000
BWM1a-1	Brachina	(marine)	blue shale	1883.4	597.84	-32.28	n/a	2.210	Calver 2000
BWM1a-1	Brachina	(marine)	gray shale	1883.4	597.84	-26.68	n/a	0.910	Calver 2000
BWM1a-1	Brachina	(marine)	blue shale	1881.3	597.88	-32.72	n/a	2.340	Calver 2000
BWM1a-1	Brachina	(marine)	gray shale	1881.3	597.88	-26.00	n/a	0.660	Calver 2000
BWM1a-1	Brachina	(marine)	blue shale	1878.8	597.92	-28.35	n/a	1.380	Calver 2000
BWM1a-1	Brachina	(marine)	gray shale	1877.5	597.95	-24.55	n/a	0.680	Calver 2000
BWM1a-1	Brachina	(marine)	gray shale	1876.2	597.97	-24.54	n/a	0.600	Calver 2000
SCYW1a	Brachina	(marine)	gray shale	1874.0	598.02	-24.56	n/a	0.640	Calver 2000
BWM1a-1	Nuccaleena	(marine)	gray shale	1871.9	598.06	-24.39	n/a	0.420	Calver 2000
SCYW1a	Nuccaleena	(marine)	gray shale	1836.4	598.73	-24.53	n/a	0.100	Calver 2000
Enorama Creek	Trezona	(marine)	limestone	1757.0	600.25	-26.60	n/a	0.015	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1727.5	600.81	-24.80	n/a	0.018	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1723.2	600.90	-25.20	n/a	0.013	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1721.4	600.93	-25.70	n/a	0.017	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1716.6	601.02	-23.70	n/a	0.007	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1712.6	601.10	-23.50	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1711.0	601.13	-24.10	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1705.9	601.23	-24.50	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1700.9	601.32	-24.70	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1693.5	601.46	-24.90	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1688.1	601.57	-25.90	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1681.7	601.69	-25.60	n/a	0.005	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1680.5	601.71	-24.00	n/a	0.006	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Trezona	(marine)	limestone	1674.9	601.82	-23.50	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1671.2	601.89	-25.40	n/a	0.007	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1664.5	602.02	-25.70	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1663.7	602.03	-26.20	n/a	0.014	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1657.8	602.15	-24.80	n/a	0.007	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1653.8	602.22	-25.20	n/a	0.004	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1650.3	602.29	-25.20	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1645.4	602.38	-25.20	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1641.6	602.46	-23.70	n/a	0.013	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1632.4	602.63	-26.10	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1625.4	602.76	-26.50	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1622.7	602.82	-26.00	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1616.9	602.93	-24.80	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1612.0	603.02	-27.00	n/a	0.007	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1605.3	603.15	-30.10	n/a	0.014	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1596.6	603.31	-25.00	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1594.0	603.36	-24.90	n/a	0.006	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1584.1	603.55	-27.90	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1566.0	603.90	-24.30	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1558.4	604.04	-24.20	n/a	0.016	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1539.3	604.41	-27.50	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1536.5	604.46	-26.20	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1534.0	604.51	-26.40	n/a	0.007	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1528.9	604.61	-23.90	n/a	0.013	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1521.9	604.74	-23.20	n/a	0.013	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1495.3	605.25	-24.40	n/a	0.016	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1491.8	605.32	-25.40	n/a	0.005	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1482.0	605.50	-26.40	n/a	0.005	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Trezona	(marine)	limestone	1457.3	605.98	-23.90	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	925.3	616.14	-24.00	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	915.9	616.32	-23.70	n/a	0.015	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	904.1	616.54	-25.00	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	891.0	616.79	-24.60	n/a	0.010	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	852.9	617.52	-27.00	n/a	0.031	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	834.7	617.87	-26.90	n/a	0.018	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	788.1	618.76	-25.30	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	784.9	618.82	-25.10	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	781.6	618.88	-24.30	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	777.6	618.96	-24.60	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	771.6	619.07	-26.10	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	755.6	619.38	-25.50	n/a	0.035	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	520.8	623.86	-25.60	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	517.0	623.94	-22.70	n/a	0.013	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	512.0	624.03	-25.60	n/a	0.008	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	495.0	624.36	-22.50	n/a	0.009	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	473.8	624.76	-25.90	n/a	0.039	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	465.6	624.92	-23.00	n/a	0.014	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	455.6	625.11	-21.30	n/a	0.023	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	386.5	626.43	-23.60	n/a	0.016	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	367.1	626.80	-22.20	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	355.8	627.01	-23.50	n/a	0.016	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	329.6	627.51	-25.90	n/a	0.006	Swanson-Hysell <i>et al.</i> 2010

Enorama Creek	Etina	(marine)	limestone	321.8	627.66	-23.40	n/a	0.011	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	315.7	627.78	-23.10	n/a	0.005	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	292.3	628.23	-23.20	n/a	0.014	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	276.3	628.53	-21.60	n/a	0.023	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	268.5	628.68	-24.40	n/a	0.017	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	200.2	629.99	-26.00	n/a	0.017	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	189.4	630.19	-21.50	n/a	0.038	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	188.4	630.21	-21.50	n/a	0.038	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	176.5	630.44	-21.20	n/a	0.015	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	146.3	631.02	-20.00	n/a	0.018	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	131.2	631.30	-24.20	n/a	0.021	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	106.0	631.79	-21.60	n/a	0.012	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	90.0	632.09	-23.50	n/a	0.014	Swanson-Hysell <i>et al.</i> 2010
Enorama Creek	Etina	(marine)	limestone	63.3	632.60	-23.50	n/a	0.010	Swanson-Hysell <i>et al.</i> 2010

References cited

- AYLIFFE, D. 1992. Geological setting of the late Proterozoic Wonoka Formation carbonate ramp and canyon sequence at Pichi Richi Pass, southern Flinders Ranges, South Australia: geochemical, stable isotope, and diagenetic analysis. Unpublished Honours thesis, University of Adelaide, Adelaide, 60 p.
- CALVER, C.R. 2000. Isotope stratigraphy of the Ediacarian (Neoproterozoic III) of the Adelaide Rift Complex, Australia, and the overprint of water column stratification. *Precambrian Research*, **100**, 121-150.
- DIXON, J. 1999. Forcing factors influencing deposition of the Wonoka Formation, Flinders Ranges, South Australia, and triggers for canyon development. Unpublished Honours thesis, University of Adelaide, Adelaide, 68 p.
- EICKOFF, K.-H., VON DER BORCH, C.C., & GRADY, A.E. 1988. Proterozoic canyons of the Flinders Ranges (South Australia): submarine canyons or drowned river valleys? *Sedimentary Geology*, **58**, 217-235.
- HIGGINS, J. 1997. The Pamatta Pass Canyon Complex: Neoproterozoic Wonoka Formation, Flinders Ranges, South Australia. Unpublished Honours Thesis, University of Adelaide, Adelaide, 89 p.
- JANSYN, J. 1990. Stratotectonic evolution of a large subsidence structure associated with the late Proterozoic Wonoka Formation at Wilpena Pound, central Flinders Ranges, South Australia. Unpublished Honours Thesis, University of Adelaide, Adelaide, 30 p.
- KNOLL, A.H., WALTER, M.R., NARBONNE, G.M., & CHRISTIE-BLICK, N. 2006. The Ediacaran Period: a new addition to the geological time scale. *Lethaia*, **39**, 13-30.
- MCKIRDY, D.M., BURGESS, J.M., LEMON, N.M., YU, X.-K., COOPER, A.M., GOSTIN, V.A., JENKINS, R.J.F., & BOOTH, R.A. 2001. A chemostratigraphic overview of the late Cryogenian interglacial sequence in the Adelaide Fold-Thrust Belt, South Australia. *Precambrian Research*, **106**, 146-186.
- PELL, S.D., MCKIRDY, D.M., JANSYN, J., & JENKINS, R.J.F. 1993. Ediacaran carbon isotope stratigraphy of South Australia - an initial study. *Royal Society of South Australia Transactions*, **117**, 153-161.
- RETALLACK, G.J. 2008. Cambrian palaeosols and landscapes of South Australia. *Australian Journal of Earth Sciences*, **55**, 1083-1106.

- RETALLACK, G.J. 2011. Neoproterozoic glacial loess and limits to snowball Earth. *Geological Society of London Journal*, **168**, 1-19.
- RETALLACK, G.J. 2012. Were Ediacaran siliciclastics of South Australia coastal or deep marine? *Sedimentology*, **59**, 1208-1236.
- RETALLACK, G.J. 2013. Ediacaran life on land. *Nature*, **493**, 89-92.
- SINGH, U. 1986. Late Precambrian and Cambrian carbonates of the Adelaidean in the Flinders Ranges, South Australia: a petrographic, electron microprobe and stable isotopic study. Unpublished PhD thesis, University of Adelaide, 158 p.
- SMITH, H.D. 2001. Early diagenetic origin of a Neoproterozoic cap carbonate: the Marinoan Nuccaleena Formation, SA. Unpublished Honours Thesis, University of Adelaide, Adelaide, 55 p.
- SURGE, D.M. 1996. Geochemical and petrologic evidence for limited diagenesis in Lower Cambrian carbonates, South Australia: implications for photosynthesis and depth-related variations in primary productivity. Unpublished MSc thesis Department of Geological Sciences, Indiana University, Bloomington, 116 p.
- SWANSON-HYSELL, N.L., ROSE, C.V., CALMET, C.C., HALVERSON, G.P., HURTGEN, M.T. & MALOOF, A.C. 2010. Cryogenian glaciation and the onset of carbon isotope decoupling. *Science*, **328**, 608-611.
- TUCKER, M.E. 1991. Carbon isotopes and Precambrian-Cambrian boundary geology, South Australia: ocean basin formation, seawater chemistry and organic evolution. *Terra Nova*, **1**, 573-582.
- URLWIN, B. 1992. Carbon isotope stratigraphy of the late Proterozoic Wonoka Formation of the Adelaide Fold Belt: diagenetic assessment and interpretation of isotopic signature and correlations with previously measured isotopic curves. Unpublished Honours thesis, University of Adelaide, Adelaide, 36 p.
- WILLIAMS, G.E. 1979. Sedimentology, stable-isotope geochemistry and palaeoenvironment of dolostones capping late Precambrian glacial sequences in Australia. *Geological Society of Australia Journal*, **26**, 377-386.
- YOUNG, T. 1995. The Bunyeroo Formation and its possible cold-water marine setting. Unpublished Honours Thesis, University of Adelaide, Adelaide, 51 p.