

Milestone 6 - Attachment B

Ergon grid cost based on the pre trial audit of pumping system: July 2018 – December 2019

Month	Run Time (Hrs)	Grid supply (kWh)	Grid - Pump demand (kWh)	Water use (ML)	Grid kWh/ML	Grid cost /ML Tariff 20	Total grid cost - Tariff 20
Jan-18	131	5109	39	11.46	442	\$107.5	\$1,231.89
Feb-18	90	3510	39	7.88	442	\$107.5	\$847.06
Mar-18	59	2301	39	5.16	442	\$107.5	\$554.67
Apr-18	28	1092	39	2.44	442	\$107.5	\$262.29
May-18	35	1365	39	3.06	442	\$107.5	\$328.93
Jun-18	55	2145	39	4.81	442	\$107.5	\$517.05
Jul-18	82	3198	39	7.23	442	\$107.5	\$777.18
Aug-18	136	5304	39	11.99	442	\$107.5	\$1,288.86
Sep-18	49	1911	39	4.32	442	\$107.5	\$464.38
Oct-18	96	3744	39	8.47	442	\$107.5	\$910.48
Nov-18	106	4134	39	9.35	442	\$107.5	\$1,005.07
Dec-18	126	4914	39	11.11	442	\$107.5	\$1,194.26
Jan-19	342	13338	39	31.82	442	\$107.5	\$3,420.47
Feb-19	253	9867	39	23.36	442	\$107.5	\$2,511.07
Mar-19	190	7410	39	17.75	442	\$107.5	\$1,908.03
Apr-19	70	2730	39	6.55	442	\$107.5	\$704.09
Aug-19	84	3276	39	7.7	442	\$107.5	\$827.71
Sep-19	27	1053	39	2.5	442	\$107.5	\$268.74
Oct-19	174	6786	39	16.9	442	\$107.5	\$1,816.66
Nov-19	204	7956	39	12.2	442	\$107.5	\$1,311.43
Dec-19	262	10218	39	26	442	\$107.5	\$2,794.85
Summary	Total	Total	Average	Total	Average	Average	Total grid cost - Tariff 20
	2599.00	101361.00	39.00	232.06	442	\$107.5	\$24,945.15

Ergon grid cost based on the trial data from pumping system: July 2018 – December 2019

Month	Run Time (Hrs)	Grid supply (kWh)	Grid - Pump demand (kW/h)	Water use (ML)	Grid kWh/ML	Grid cost /ML Tariff 20	Total grid cost - Tariff 20
Jan-18	131	1692	12.92	11.46	137.94	\$33.55	\$384.46
Feb-18	90	927	10.30	7.88	110.00	\$26.75	\$210.81
Mar-18	59	737	12.49	5.16	133.41	\$32.45	\$167.42
Apr-18	28	375	13.39	2.44	143.04	\$34.79	\$84.88
May-18	35	407	11.63	3.06	124.19	\$30.20	\$92.42
Jun-18	55	476	8.65	4.81	92.43	\$22.48	\$108.12
Jul-18	82	456	5.56	7.23	59.39	\$14.44	\$104.43
Aug-18	136	443	3.26	11.99	34.79	\$8.46	\$101.44
Sep-18	49	418	8.53	4.32	91.11	\$22.16	\$95.72
Oct-18	96	933	9.72	8.47	103.80	\$25.24	\$213.81
Nov-18	106	482	4.55	9.35	48.56	\$11.81	\$110.43
Dec-18	126	1570	12.46	11.11	133.08	\$32.36	\$359.57
Jan-19	342	3583	10.48	31.82	111.89	\$27.21	\$865.88
Feb-19	253	1701	6.72	23.36	71.81	\$17.46	\$407.94
Mar-19	190	1594	8.39	17.75	89.60	\$21.79	\$386.78
Apr-19	70	608	8.69	6.55	92.76	\$22.56	\$147.77
Aug-19	84	552	6.57	7.7	70.18	\$17.07	\$131.43
Sep-19	27	39	1.44	2.5	15.43	\$3.75	\$9.38
Oct-19	174	340	1.95	16.9	20.87	\$5.08	\$85.77
Nov-19	204	1601	7.85	12.2	83.82	\$20.38	\$248.69
Dec-19	262	2727	10.41	26	111.16	\$27.03	\$702.90
Summary	Total	Total	Average	Total	Average	Average	Total grid cost - Tariff 20
	2599.0	21661.0	8.3	232.1	89.5	\$21.76	\$5,020.04

New system savings July 2018 – December 2019

Month	solar + VSD (Kw /hr)	saving %	Saving \$
Jan-18	26.08	66.9	\$847.43
Feb-18	28.70	73.6	\$636.24
Mar-18	26.51	68.0	\$387.25
Apr-18	25.61	65.7	\$177.41
May-18	27.37	70.2	\$236.51
Jun-18	30.35	77.8	\$408.92
Jul-18	33.44	85.7	\$672.75
Aug-18	35.74	91.6	\$1,187.42
Sep-18	30.47	78.1	\$368.66
Oct-18	29.28	75.1	\$696.67
Nov-18	34.45	88.3	\$894.64
Dec-18	26.54	68.1	\$834.70
Jan-19	28.52	73.1	\$2,554.60
Feb-19	32.28	82.8	\$2,103.13
Mar-19	30.61	78.5	\$1,521.24
Apr-19	30.31	77.7	\$556.32
Aug-19	32.43	83.2	\$696.28
Sep-19	37.56	96.3	\$259.36
Oct-19	37.05	95.0	\$1,730.88
Nov-19	31.15	79.9	\$1,062.74
Dec-19	28.59	73.3	\$2,091.96
Summary	Average	Average	Total grid cost saving - Tariff 20
	30.6	78.5	\$19,925.11