Supplementary Material

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2 Methane and nitrous oxide sources and emissions in a 3 subtropical South freshwater reservoir, **East** 4 Queensland, Australia 5 6 Katrin Sturma, Zhiguo Yuana, Badin Gibbes and Alistair Grinhama, b* 7 *Corresponding author email: a.grinham@uq.edu.au 8 9 10 Authors addresses: ^a Advanced Water Management Centre (AWMC), The University of Queensland, 11 12 Level 4, Gehrmann Building, Brisbane, Queensland 4072, Australia ^b School of Civil Engineering, The University of Queensland, Level 5, Advanced 13 Engineering Building, Brisbane, Queensland 4072, Australia 14

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Table S1: Gold Creek Dam storage capacity curve showing surface area, cumulative volume and storage

capacity at 1 m resolution from stream bed to full supply level.

Water depth (m)	Depth contour (m AHD)	Surface area (ha)	Cumulative Volume (ML)	Storage capacity (%)
11.75	81	0.06	0	0
10.75	82	0.31	1.69	0.2
9.75	83	1.04	8.08	1.0
8.75	84	2.35	24.59	3.0
7.75	85	3.55	53.89	6.6
6.75	86	4.94	96.15	11.7
5.75	87	6.37	152.54	18.6
4.75	88	7.82	223.37	27.2
3.75	89	9.32	308.96	37.7
2.75	90	11.07	410.79	50.1
1.75	91	13.33	532.61	65.0
0.75	92	16.34	680.71	83.0
0	92.75	19.35	819.73	100

Figure S1: Water depth profile of dissolved oxygen (A) and water temperature (B) from the deep monitoring site.

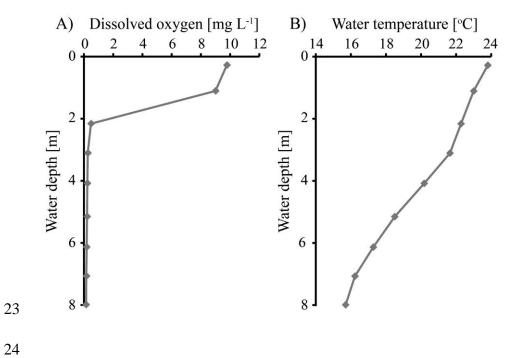


Figure S2: Long term underwater light logger measurements from the shallow monitoring site at 1.25 m depth.

