

## Supplemental Tables

Supplemental Table 1. Test statistics for all response variables measured in clam and control mesocosms in 2009 and 2010. All results are from non-parametric Wilcoxon rank sum tests, and significance was determined at  $\alpha \leq 0.05$ . Water column chlorophyll *a* was not measured in 2009, and water column nutrients were only analyzed in Run 2 that year.

	Macro-algal biomass (g)	Macro-algal % cover	Water column chl <i>a</i> ( $\mu\text{g/L}$ )	Porewater PO <sub>4</sub> ( $\mu\text{M}$ )	Porewater NH <sub>4</sub> ( $\mu\text{m}$ )	Porewater NO <sub>3</sub> ( $\mu\text{m}$ )	Water column PO <sub>4</sub> ( $\mu\text{M}$ )	Water column NH <sub>4</sub> ( $\mu\text{m}$ )	Water column NO <sub>3</sub> ( $\mu\text{m}$ )
<b>2009</b>	Run 1: $\chi^2 = 2.08, p = 0.15$	Run 1: $\chi^2 = 6.09, p = 0.01$	N/A	Run 1: $\chi^2 = 5.65, p = 0.02$ Run 2: $\chi^2 = 0.0004, p = 0.98$	Run 1: $\chi^2 = 23.27, p < 0.00$ Run 2: $\chi^2 = 12.55, p = 0.00$	Run 1: $\chi^2 = 0.28, p = 0.60$ Run 2: $\chi^2 = 3.27, p = 0.07$	Run 1: N/A Run 2: $\chi^2 = 4.54, p = 0.03$	Run 1: N/A Run 2: $\chi^2 = 5.64, p = 0.02$	Run 1: N/A Run 2: $\chi^2 = 3.27, p = 0.07$
	Run 2: $\chi^2 = 5.33, p = 0.02$	Run 2: $\chi^2 = 6.0, p = 0.01$							
<b>2010</b>	Run 1: $\chi^2 = 11.29, p = 0.0008$	Run 1: $\chi^2 = 40.51, p < 0.0001$	Run 1: $\chi^2 = 0.11, p = 0.74$ Run 2: $\chi^2 = 0.14, p = 0.71$	Run 1: $\chi^2 = 3.00, p = 0.08$ Run 2: $\chi^2 = 14.71, p = 0.0001$	Run 1: $\chi^2 = 14.08, p = 0.0002$ Run 2: $\chi^2 = 17.18, p = 0.0001$	Run 1: $\chi^2 = 1.74, p < 0.19$ Run 2: $\chi^2 = 3.64, p = 0.06$	Run 1: $\chi^2 = 35.09, p < 0.0001$ Run 2: $\chi^2 = 35.45, p < 0.0001$	Run 1: $\chi^2 = 12.58, p = 0.0004$ Run 2: $\chi^2 = 14.71, p = 0.0001$	Run 1: $\chi^2 = 32.15, p < 0.0001$ Run 2: $\chi^2 = 26.36, p < 0.0001$
	Run 2: $\chi^2 = 11.29, p = 0.0008$	Run 2: $\chi^2 = 40.51, p < 0.0001$							