

Table 17. Laboratory incubation denitrification rates for the experiment of May 15, 2009

[BHM, Bass Harbor Marsh watershed; GW#, measurement site; NO₃, nitrate;

mM, millimolar; nmoles, nanomoles; hr, hour; T₀, date and time chamber sealed and initial gas sampling;

T₁, T₂, T₃, subsequent gas sampling times; g, gram; C₂H₂, acetylene; N₂O, nitrous oxide]

Location	Fresh weight (g)	T ₀	T ₁	T ₂	T ₃	Treatment	Number of replicate measurements	N ₂ O Production rate	
								T ₁ to T ₂	T ₂ to T ₃
								nmoles/g oven dry soil/hr	nmoles/g oven dry soil/hr
BHM GW5	20.4	10:07	10:07	11:33	15:34	50 mM NO ₃ + C ₂ H ₂	3	20.2	14.9
BHM GW5	20.2	10:08	10:08	11:34	15:35	50 mM NO ₃	3	20.5	12.6
BHM GW6	20.2	10:10	10:10	11:36	15:37	50 mM NO ₃ + C ₂ H ₂	3	0.636	0.991
BHM GW6	20.4	10:12	10:12	11:38	15:39	50 mM NO ₃	3	0.141	0.181