

Table S2. Statistical results for the variables characterizing initial abiotic and biotic conditions of the mesocosms and of the physicochemical parameters during the 65 days after seawater intrusion. All tests were carried out with the software STATISTICA Version 10.0 (StatSoft, Inc., Tulsa, USA) with the level of significance set at 0.05. In Tukey post-hoc test results, treatments with different superscripts are significantly different. C: Control, 2.0, 3.3, 5.5, 9.3 and 15.3: treatments (mS cm⁻¹). NS: non-significant.

Variables	Normality	Homoscedasticity	MANOVA	Tukey
Abiotic before		Bartlett's test		
Electrical conductivity	W=0.92, P=0.29	$\chi^2=1.10$, P=0.95, df=5	Treatment: $F_{10,10}=1.90$, P=0.17 Day: $F_{10,10}=1344.89$, P<0.0001 Day \times Treatment: $F_{10,10}=0.40$, P=0.91	
Dissolved oxygen	W=0.87, P=0.07	$\chi^2=2.47$, P=0.78, df=5		
pH	W=0.94, P=0.51	$\chi^2=1.64$, P=0.90, df=5		
ln(Water temperature+1)	W=0.73, P=0.0015	$\chi^2=0.06$, P=0.99, df=5		
Biotic before				
Abundance	W=0.95, P=0.63	$\chi^2=4.06$, P=0.40, df=4	Treatment: $F_{5,6}=0.92$, P=0.53	
Richness	W=0.93, P=0.43	$\chi^2=1.19$, P=0.88, df=4	Day: $F_{1,6}=122.73$, P<0.0001	
			Day \times Treatment: $F_{5,6}=1.18$, P=0.42	
Abiotic after		Levene's test		
ln(Electrical conductivity+1)	W=0.93, P=0.047	F=0.74, P=0.60, df=5,22	Treatment: $F_{0.05,5,22}=113.56$, P<0.0001	C ^a 2.0 ^{bc} 3.3 ^{cd} 5.5 ^d 9.3 ^e 15.3 ^f NS: P>0.10 Significant: P<0.009
ln(Ammonia+1)	W=0.81, P<0.0001	F=1.38, P=0.27, df=5,22	Day: $F_{2,44}=874.98$, P<0.0001	
ln(Sulphate+1)	W=0.93, P=0.039	F=0.69, P=0.63, df=5,22	Day \times Treatment: $F_{10,44}=6.51$, P<0.0001	
ln(Dissolved oxygen+1)	W=0.96, P=0.56	F=1.67, P=0.17, df=5,18	Treatment: $F_{5,18}=0.53$, P=0.75 Day: $F_{3,54}=1922.87$, P<0.0001 Day \times Treatment: $F_{15,54}=1.10$, P=0.38	
ln(pH+1)	W=0.91, P=0.005	F=0.43, P=0.82, df=5,18		
ln(Nitrate+1)	W=0.98, P=0.68	F=1.85, P=0.15, df=5,18		
Phosphate	W=0.95, P=0.08	F=0.63, P=0.61, df=5,18		