

Supplementary material

**Stable isotopes in biota reflect the graduated influence of sewage effluent along a tropical macro-tidal creek**

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**Table S1. Stable carbon ( $\delta^{13}\text{C}$ ) and nitrogen ( $\delta^{15}\text{N}$ ) isotopes and C and N concentrations in *Avicennia marina* mangrove leaves from all three sampling rounds**

ns, no sample; dup, laboratory duplicate

Creek	Sampling site	$\delta^{15}\text{N}$ (‰)			%N			$\delta^{13}\text{C}$ (‰)			%C		
		Sep. 2013	Feb. 2014	July 2014	Sep. 2013	Feb. 2014	July 2014	Sep. 2013	Feb. 2014	July 2014	Sep. 2013	Feb. 2014	July 2014
Buffalo Creek	A1	17.6	16.8	16.8	3.0	3.0	2.8	-32.6	-31.2	-31.9	49.0	49.3	44.0
	A1 dup	ns	16.8	ns	ns	3.0	ns	ns	-31.1	ns	ns	50.5	ns
	A2	11.8	11.5	11.7	2.1	2.5	2.1	-30.9	-28.8	-31.2	46.7	51.3	46.2
	A2 dup	11.7	ns	11.8	2.1	ns	2.2	-30.8	ns	-31.0	46.7	ns	46.1
	A3	11.8	12.4	11.7	2.1	1.9	2.2	-28.3	-27.3	-29.3	45.8	51.9	44.4
	A4	13.9	13.2	13.9	1.9	2.0	1.7	-28.0	-27.9	-27.8	46.7	47.2	46.1
	A5	11.2	12.0	12.6	1.9	1.8	2.0	-28.0	-27.2	-28.6	48.7	48.2	46.3
	A6	9.1	10.8	9.2	0.9	1.8	1.7	-29.8	-28.1	-29.2	47.7	49.8	45.6
Mickett Creek	a1	5.4	5.2	5.6	1.8	2.2	2.0	-27.1	-27.5	-27.6	46.9	53.4	44.2
	a2	3.8	6.9	6.2	1.6	1.2	1.3	-28.2	-28.2	-27.3	49.7	52.9	46.5
	a2 dup	3.9	ns	6.0	1.6	ns	1.4	-28.5	ns	-27.1	50.5	ns	47.7
	a3	6.0	7.0	6.1	1.5	1.2	1.4	-28.6	-28.8	-29.4	50.8	54.5	47.5

**Table S2. Stable carbon ( $\delta^{13}\text{C}$ ) and nitrogen ( $\delta^{15}\text{N}$ ) isotopes and C and N concentrations in the foot muscle of *Telescopium telescopium* and *Terebralia semistriata* from all sampling rounds**

ns, no sample; dup, laboratory duplicate

Gastropod species	Creek	Sampling site	$\delta^{15}\text{N}$ (‰)				%N				$\delta^{13}\text{C}$ (‰)				%C			
			Sep. 2013	Feb. 2014	July 2014	June 2014	Sep. 2013	Feb. 2014	July 2014	June 2014	Sep. 2013	Feb. 2014	July 2014	June 2014	Sep. 2013	Feb. 2014	July 2014	June 2014
<i>T. telescopium</i>	Buffalo Creek	T1	14.4	13.6	13.3	13.7	12.2	13.1	12.7	12.6	-23.0	-23.7	-24.7	-23.7	41.4	39.9	40.0	39.5
		T1 dup	13.3	13.1	ns	ns	12.3	13.4	ns	ns	-23.5	-23.7	ns	ns	39.6	40.9	ns	ns
		T2	ns	ns	ns	13.9	ns	ns	ns	12.9	ns	ns	ns	-21.3	ns	ns	ns	37.5
		T3	ns	ns	ns	12.5	ns	ns	ns	11.6	ns	ns	ns	-21.3	ns	ns	ns	37.3
		T3 dup	ns	ns	ns	12.4	ns	ns	ns	11.6	ns	ns	ns	-21.3	ns	ns	ns	37.8
		T4	ns	ns	ns	12.6	ns	ns	ns	12.4	ns	ns	ns	-20.8	ns	ns	ns	38.4
		T6	ns	ns	ns	13.4	ns	ns	ns	12.6	ns	ns	ns	-21.3	ns	ns	ns	39.7
		T6 dup	ns	ns	ns	13.6	ns	ns	ns	12.3	ns	ns	ns	-21.4	ns	ns	ns	39.9
<i>T. telescopium</i>	Mickett Creek	T8	5.5	5.3	5.4	6.1	10.7	11.8	12.7	10.8	-25.2	-25.2	-25.4	-25.9	34.1	36.7	39.4	34.2
		t1	5.1	6.0	7.4	ns	10.8	12.8	12.2	ns	-19.8	-15.7	-19.0	ns	34.2	39.8	38.8	ns
		t2	5.8	7.0	5.8	ns	10.9	12.9	11.4	ns	-16.1	-18.7	-16.2	ns	34.5	40.9	35.7	ns
		t2 dup	6.1	6.9	ns	ns	10.9	13.0	ns	ns	-16.1	-18.9	ns	ns	33.9	40.1	ns	ns
		t3	6.4	6.2	6.3	ns	11.7	12.3	12.2	ns	-22.0	-22.5	-22.1	ns	36.9	38.6	38.2	ns
<i>T. semistriata</i>	Buffalo Creek	t3 dup	ns	ns	6.2	ns	ns	ns	11.9	ns	ns	ns	-22.1	ns	ns	ns	37.8	ns
		T1	ns	13.6	ns	ns	ns	11.5	ns	ns	ns	-22.5	ns	ns	ns	36.2	ns	ns
		T3	ns	ns	ns	10.7	ns	ns	ns	11.1	ns	ns	ns	-21.3	ns	ns	ns	32.9
		T3 dup	ns	ns	ns	10.5	ns	ns	ns	11.7	ns	ns	ns	-21.4	ns	ns	ns	34.3
		T4	ns	ns	ns	10.3	ns	ns	ns	12.7	ns	ns	ns	-22.9	ns	ns	ns	37.5
		T5	ns	ns	ns	10.8	ns	ns	ns	12.7	ns	ns	ns	-21.9	ns	ns	ns	37.4
		T7	ns	ns	ns	7.6	ns	ns	ns	11.7	ns	ns	ns	-21.5	ns	ns	ns	33.6
T8	ns	5.3	4.1	5.0	ns	11.0	10.6	12.5	ns	-19.4	-18.7	-18.2	ns	35.6	35.8	35.8		
		T8 dup	ns	5.4	4.0	ns	ns	11.0	10.6	ns	ns	-19.2	-18.7	ns	ns	36.1	35.7	ns