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Table S1. Summary of tests for sedimentation effects on selected traits. Overall significance for the sediment addition term ('Sed', in bold) as well as significant interactions between sediment addition and site (S) and/or time (T), as determined from within–subjects contrasts or between–subjects effects using MANOVA, are shown for each trait modality across all sites and times. NS indicates that none of the terms containing sediment addition were significant for the particular trait modality. Univariate Wilcoxons signed–rank tests were conducted for each trait modality within each site and time, arrows indicate where sediment addition caused either an increase ($\uparrow P < 0.05$, $\uparrow 0.05 \le P < 0.10$), or decrease ($\downarrow P < 0.05$, $\downarrow 0.05 \le P < 0.10$), in the proportion of animals with the particular trait modality

Traits Overall Relative size Small NS Medium NS Large NS Body form Cylindrical NS Spherical NS Streamlined NS Flattened NS	Opitonui (upstream)	eam)			_									Day 16		
Small NS Medium NS Large NS Body form Cylindrical NS Spherical NS Streamlined NS	Opitonui	Opitonui (downstream)	Awaroa	Opitonui (upstream)	Opitonui (downstream)	Awaroa	Traits	Overall	Inner	Middle	Outer	Inner	Middle	Outer		
Medium NS Large NS Body form Cylindrical NS Spherical NS Streamlined NS							Relative size									
Large NS Body form Cylindrical NS Spherical NS Streamlined NS	_	_	\downarrow	_	_	-	Small	Sed*S	_	\downarrow	↑	-	\downarrow	\uparrow		
Body formCylindricalNSSphericalNSStreamlinedNS	_	_	_	\downarrow	_	-	Medium	NS	_	_	_	_	↑	_		
Cylindrical NS Spherical NS Streamlined NS	_	_	_	↑	_	-	Large	Sed*S	1	↑	\downarrow	_	↑	\downarrow		
Spherical NS Streamlined NS							Body form									
Streamlined NS	_	_	_	_	_	_	Cylindrical	Sed*S, Sed*S*T	_	_	1	\downarrow	_	1		
	_	_	_	_	_	_	Spherical	Sed*S*T	\downarrow	1	<u>,</u>	_	↑	į		
Elettoned NC	_	_	_	_	_	_	CaCO ₃ covered	Sed*S	_	j	j	_	_	j		
riattened NS	_	_	_	_	_	_				Ť	*			Ť		
Habitat							Habitat									
Epibenthic NS	_	↑	_	_	↑	_	Epibenthic	Sed*S, Sed*S*T	_	_	_	_	_	↑		
Attached NS	_	į	_	_	į	_	Attached	NS	_	↑	_	_	↑	_		
Infauna NS	_	_	_	_	_	_	Infauna (upper layers)	Sed, Sed*S, Sed*T, Sed*S*T	_	i	_	↑	_	J.		
Water column Sed	1	1		_	_	_	Infauna (deep)	Sed*S, Sed*S*T	_	_	↑	İ	1	*		
Feeding habits	*	*	*				Feeding habits	2,			'	*	*	1		
Predators Sed*S*T	_	_	_	↑	_	_	Predators	Sed, Sed*S	↑	_	↑	↑	_	_		
Grazers NS	_	_	_		_	_	Grazers	Sed, Sed*S, Sed*T, Sed*S*T	i	_	_	İ	↑	_		
Deposit feeders NS	_	_	_	*	_	_	Deposit feeders	Sed	_	_	1	Ĭ	i	_		
Filter feeders NS	_	_	_	<u>†</u>	_	_	Filter feeders	NS	_	↑	_	_	†	_		
Shredders Sed	_	_	_	_	1	_	Scavengers	Sed	↑	_	↑	↑	· ↑	_		
Algal piercers NS	_	_	1	_	+	_	Seavengers	Seu	1		1	1	'			
Dietary specificity			*				Dietary specificity									
Strong (specialist) NS	_	_	1	†	_	_	Strong (specialist)	Sed	_	_	_	1	1	_		
Moderate Sed	_	1	+	_	1	_	Moderate	Sed, Sed*S	↑		_	↓	+	_		
Weak (generalist) Sed		*	↑	_	↓	_	Weak (generalist)	Sed*S, Sed*T, Sed*S*T	i	_	_		↑	_		
Mobility Seu	_	ı	ı		ı		Mobility	500 5,500 1,500 5 1	+			+	I			
High Sed	_	1	ı	_	_	_	High	NS	_		_	_	↑	_		
Medium Sed		↓	<u> </u>	_	_ ↑	_	Medium	Sed, Sed*S	_	I	_	_	I	_		
Low NS	_	-	_	_		_	Low	NS	_	+	_	_	↓	_		