

Figure S1. Rarefaction curves for the effluent (FCD) and sediment samples.

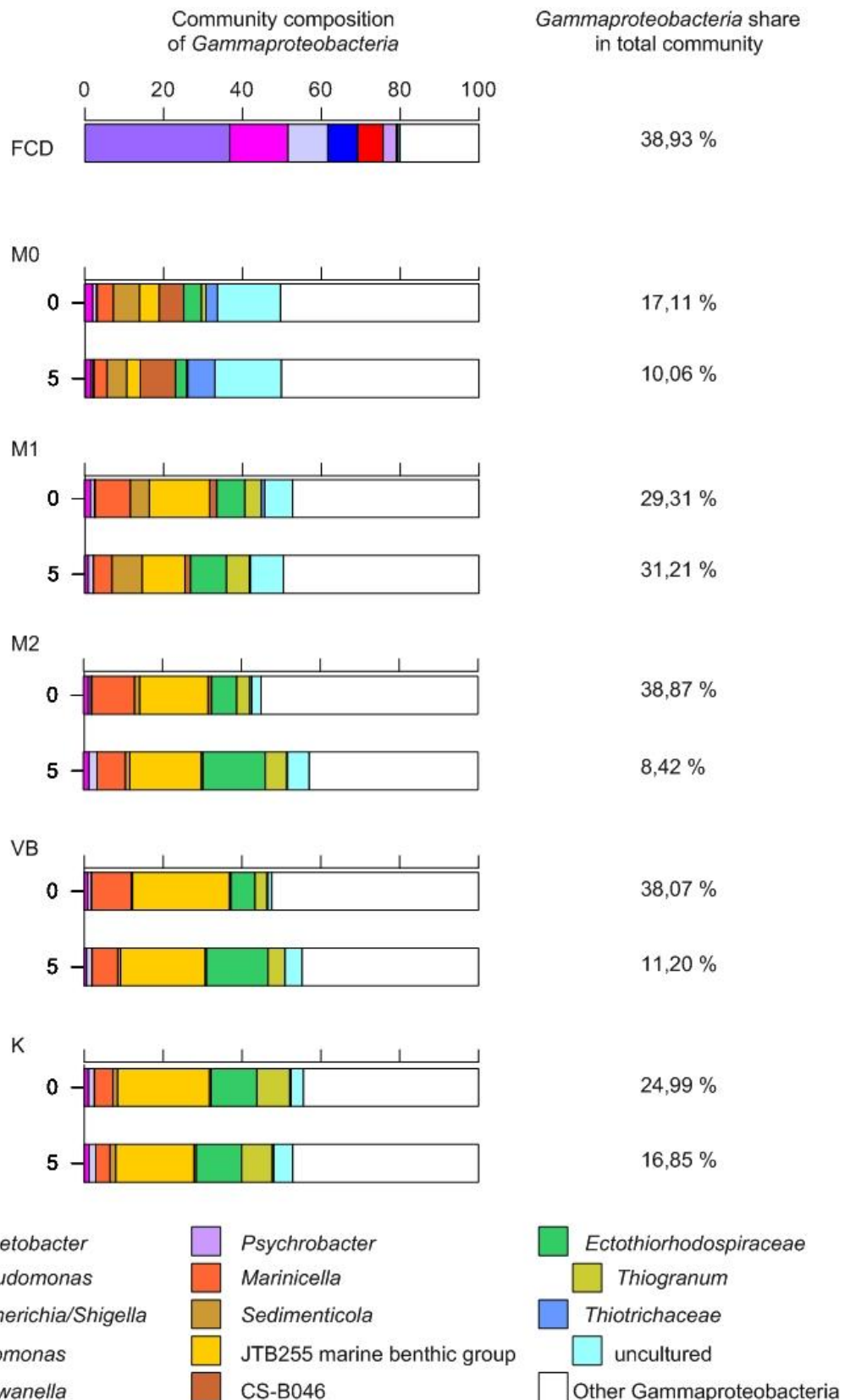


Figure S2. Relative abundances of bacterial families, groups and genera of the phylum *Gammaproteobacteria* in effluent (FCD) and sediments. Relative abundance of *Gammaproteobacteria* in total number of sequences was given next to each sample.

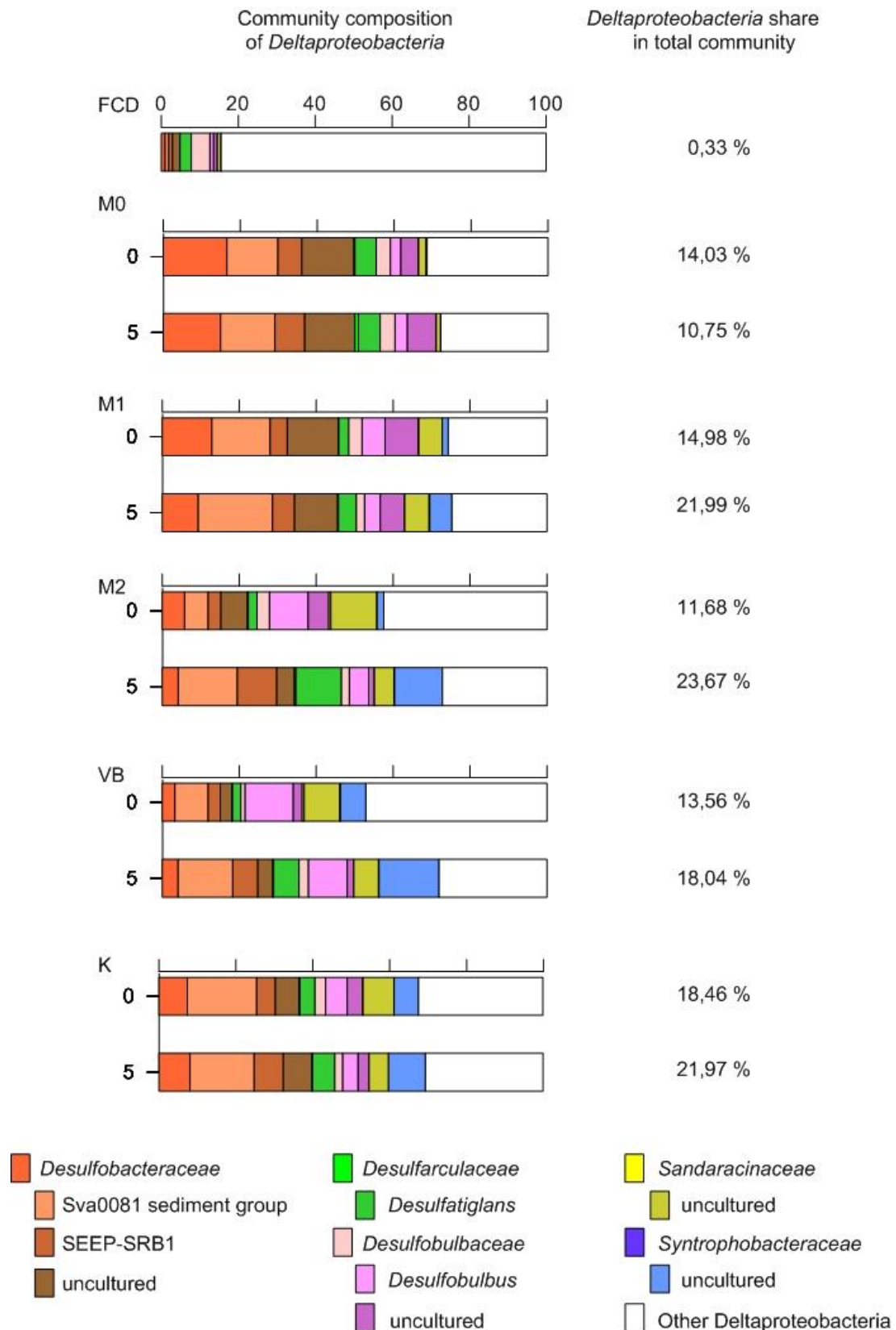


Figure S3. Relative abundances of bacterial families, groups and genera of the phylum *Deltaproteobacteria* in effluent (FCD) and sediments. Relative abundance of *Deltaproteobacteria* in total number of sequences was given next to each sample.

Table S1. Sequence statistics obtained by SILVAngs pipeline.

Sample	Station	Core section (cm)	Min. Length (bp)	Avg. Length (bp)	Max. Length (bp)	Number of Sequences	Number of Clustered Sequences	Number of Replicates	Number of Classified Sequences	Number of "No Relative" Sequences	Number of Rejected Sequences	Number of OTUs	Number of Singletons
Effluent	FCD		35	436	501	33047	12262	627	30795	607	1645	18509	18509
Sediment	M0	0	35	298	501	46331	8753	1626	29880	3344	13107	22778	22778
		5	35	331	501	25926	7552	1784	18595	1533	5798	10753	10753
	M1	0	35	402	501	59671	13258	9245	48790	5335	5546	31148	31148
		5	35	412	501	67668	15131	9375	57441	5521	4706	37730	37730
	M2	0	35	407	502	35176	3689	106	29732	2287	3157	27592	27592
		5	35	330	501	45257	9546	1501	34924	5731	4602	29251	29251
	VB	0	35	408	501	54286	7733	312	45624	4006	4656	39803	39803
		5	35	203	501	70242	11628	3080	31900	9546	28796	26622	26622
	K	0	35	350	502	40041	5505	497	29802	3171	7068	25826	25826
		5	35	355	502	55326	12413	8467	41743	7115	6468	27704	27704

Table S2. Number of OTUs, richness estimates (Chao1 and Abundance-based Coverage Estimator [ACE] and Shannon's diversity index following the normalisation step.

Sample	Station	Core section (cm)	Number of OTUs	Chao1	ACE	Shannon's Diversity Index
Effluent	FCD		12861	60530	68751	9.06
Sediment	M0	0	14564	121383	135954	9.20
		5	10753	61157	67130	8.37
	M1	0	15449	47301	53783	9.51
		5	16206	58534	68535	9.59
	M2	0	18323	325469	364231	9.74
		5	15621	146051	159290	9.39
	VB	0	18483	313312	367653	9.76
		5	14140	102109	112152	9.10
	K	0	17413	246496	283165	9.61
		5	14663	44344	51499	9.40