

Table S5. Microbial community composition of the reactor sediment and coupon samples. Relative abundance (%) of taxa within 16S rRNA. R1, R2: petro-F76 fuel. R3, R4: FT-F76 fuel. R5, R6: mix of petro- and FT-F76 fuel. R7, R8: no fuel added. The R5sed sample had less than the threshold number of reads so was not analyzed. Green cells indicates relative abundance of at least 5%.

A. Sediments. Phylum level taxa, with the exception of Alphaproteobacteria and Gammaproteobacteria (Class level).

Taxon	R1sed	R2sed	R3sed	R4sed	R6sed	R7sed	R8sed
Acetothermia	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Actinobacteriota	4.0	2.8	2.0	3.2	0.4	2.6	0.8
Bacteroidota	3.9	3.4	7.7	2.6	11.3	9.7	7.3
Campylobacterota	10.0	2.8	4.7	2.3	6.9	3.8	1.8
Chloroflexi	0.6	0.9	0.7	3.3	0.7	1.6	2.2
Cyanobacteria	1.0	1.0	1.1	6.8	19.4	1.0	6.0
Deferribacterota	7.5	0.3	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	29.4	45.9	43.3	30.2	21.6	36.7	27.5
Elusimicrobiota	0.0	0.1	0.0	0.0	0.0	1.3	0.0
Firmicutes	11.8	21.5	6.8	7.3	19.9	6.3	10.2
*Alpha Proteobacteria	6.1	12.3	8.1	27.5	6.8	8.7	25.6
* Gamma Proteobacteria	17.4	4.5	14.5	13.4	10.8	14.9	16.2
Spirochaetota	1.9	0.3	1.8	0.2	0.5	5.8	0.1
Synergistota	0.1	0.6	0.1	0.2	0.0	0.0	0.0
Thermotogota	0.3	1.9	0.4	0.3	0.3	0.1	0.1

B. Sediments. Genus level taxa.

Phylum	Class	Order	Family	Genus	R1sed	R2sed	R3sed	R4sed	R6sed	R7sed	R8sed
Acetothermia	Acetothermia	Acetothermia	Acetothermia	Acetothermia	0.0	0.0	0.0	0.0	0.0	0.3	0.2
Actinobacteriota	Actinobacteriota	Actinomarinales	Actinomarinales	Actinomarinales	1.6	0.0	0.7	1.1	0.2	1.5	0.4
Actinobacteriota	Actinobacteriota	Corynebacteriales	Corynebacteriales	Corynebacteriales	0.2	0.3	0.1	0.1	0.0	0.0	0.0
Actinobacteriota	Actinobacteriota	Micrococcales	Micrococcales	Micrococcales	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Actinobacteriota	Actinobacteriota	Micrococcales	Micrococcales	Micrococcales	0.1	0.7	0.1	0.1	0.0	0.4	0.1
Actinobacteriota	Actinobacteriota	Micrococcales	Micrococcales	Micrococcales	1.9	0.8	0.8	0.4	0.2	0.4	0.3
Bacteroidota	Bacteroidota	Bacteroidales	Bacteroidales	Bacteroidales	0.5	0.3	1.5	0.3	0.2	3.1	2.5
Bacteroidota	Bacteroidota	Bacteroidales	Bacteroidales	Bacteroidales	0.5	0.2	0.1	0.8	5.9	0.0	0.0
Bacteroidota	Bacteroidota	Bacteroidales	Bacteroidales	Bacteroidales	0.0	0.2	0.5	0.2	1.9	0.4	0.1
Bacteroidota	Bacteroidota	Bacteroidales	Bacteroidales	Bacteroidales	0.3	1.2	1.5	0.3	0.4	0.7	3.3
Bacteroidota	Bacteroidota	Sphingobacteriales	Sphingobacteriales	Sphingobacteriales	0.1	0.6	2.5	0.5	0.2	3.9	1.3
Campylobacterota	Campylobacterota	Campylobacterales	Campylobacterales	Campylobacterales	0.9	0.7	0.2	0.3	0.8	0.4	0.2
Campylobacterota	Campylobacterota	Campylobacterales	Campylobacterales	Campylobacterales	2.1	0.5	0.4	0.3	0.9	0.0	0.0
Campylobacterota	Campylobacterota	Campylobacterales	Campylobacterales	Campylobacterales	1.8	1.5	0.5	1.3	2.6	0.5	0.4
Campylobacterota	Campylobacterota	Campylobacterales	Campylobacterales	Campylobacterales	5.7	0.3	2.3	0.1	2.0	1.2	1.2
Campylobacterota	Campylobacterota	Campylobacterales	Campylobacterales	Campylobacterales	2.3	0.0	2.2	0.6	1.1	2.5	0.2
Chloroflexi	Anaerolineae	Anaerolineae	Anaerolineae	Anaerolineae	0.5	0.6	0.2	3.4	0.0	0.1	1.9
Chloroflexi	Anaerolineae	Anaerolineae	Anaerolineae	Anaerolineae	0.0	0.1	0.1	0.1	0.7	0.5	0.1
Chloroflexi	Anaerolineae	Anaerolineae	Anaerolineae	Anaerolineae	0.2	0.2	0.4	0.0	0.0	0.3	0.4
Chloroflexi	Thermomicrobiales	Thermomicrobiales	Thermomicrobiales	Thermomicrobiales	0.0	0.7	0.0	0.1	0.0	0.0	0.0
Cyanobacteria	Cyanobacteria	Chloroplast	Chloroplast	Chloroplast	1.3	1.1	1.3	7.5	21.1	1.2	6.4
Deferribacterota	Deferribacterota	Deferribacterales	Deferribacterales	Deferribacterales	7.6	0.2	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	3.6	7.8	3.9	17.1	0.9	1.1	0.8
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.1	0.3	0.9	0.4	2.8	0.0	3.9
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.0	0.0	0.3	0.0	0.1	0.7	0.1
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	1.1	0.6	0.3	0.0	0.0	0.0	0.4
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.0	0.4	0.0	0.0	3.4	0.0	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.2	0.9	13.1	0.2	0.0	2.2	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.8	0.0	1.6	0.1	0.2	2.6	0.1
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.2	1.7	1.9	0.4	4.1	1.3	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.1	0.1	0.3	0.1	0.5	1.3	0.1
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.3	0.6	2.3	1.3	0.1	2.7	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	1.0	0.2	0.5	0.6	0.2	0.4	0.2
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.8	1.2	0.2	0.8	0.6	0.4	0.4
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	3.4	0.0	2.4	0.2	0.8	2.2	0.6
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.3	1.3	0.5	0.1	0.5	0.5	0.3
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	1.0	3.6	2.5	1.1	0.6	1.9	0.5
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.8	2.7	0.6	0.6	0.3	0.3	0.4
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	9.0	22.0	11.9	9.2	5.2	18.4	20.5
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	0.2	0.0	0.0	0.0	0.1	0.0	0.0
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	1.8	0.0	0.9	0.0	0.2	0.9	0.1
Desulfobacterota	Desulfobacterota	Desulfobacteriales	Desulfobacteriales	Desulfobacteriales	4.3	2.6	2.1	0.6	1.3	2.5	0.3
Elusimicrobiota	Elusimicrobiota	Lineage IV	Lineage IV	Lineage IV	0.0	0.1	0.0	0.0	0.0	1.6	0.0
Firmicutes	Bacilli	Acholeplasmatales	Acholeplasmatales	Acholeplasma	0.2	0.2	0.3	0.2	1.9	0.2	0.0
Firmicutes	Bacilli	Bacillales	Bacillales	Bacillales	1.9	3.3	1.0	1.9	1.6	0.9	1.3
Firmicutes	Bacilli	Bacillales	Bacillales	Bacillus	1.3	1.3	0.4	1.0	0.5	0.6	0.6
Firmicutes	Bacilli	Caldalkalibacillales	Caldalkalibacillales	Caldalkalibacillus	2.5	1.6	1.3	1.5	0.5	0.8	0.2
Firmicutes	Bacilli	Erysipelotrichales	Erysipelotrichales	Erysipelotrichus	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Firmicutes	Bacilli	Izomoplasmatales	Izomoplasmatales	Izomoplasmataceae	0.5	0.3	0.3	0.3	9.3	0.4	2.6
Firmicutes	Bacilli	Izomoplasmatales	Izomoplasmatales	Izomoplasmataceae	1.4	0.7	1.3	0.9	3.8	0.8	3.9
Firmicutes	Clostridia	Clostridia vadinBB60 group	Clostridia vadinBB60 group	Clostridia vadinBB60 group	0.0	0.0	0.1	0.0	0.0	0.3	0.2
Firmicutes	Clostridia	Clostridiales	Clostridiales	Clostridiales	1.0	2.6	0.5	0.5	0.2	0.4	0.4
Firmicutes	Clostridia	Eubacteriales	Eubacteriales	Garciella	2.1	5.7	1.0	0.6	1.3	1.3	0.7
Firmicutes	Clostridia	Oscillospirales	Oscillospirales	Ercella	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Firmicutes	Clostridia	Peptostreptococcales-Tissierellales	Peptostreptococcales-Tissierellales	Dethiosulfatibacter	0.4	0.1	0.0	0.1	0.0	0.0	0.0
Firmicutes	Clostridia	Peptostreptococcales-Tissierellales	Peptostreptococcales-Tissierellales	JTB215	0.2	0.0	0.0	0.0	0.5	0.0	0.0
Firmicutes	Clostridia	Thermocolales	Thermocolales	Thermocola	0.1	1.1	0.1	0.0	0.2	0.1	0.4
Firmicutes	Desulfotomaculia	Desulfotomaculiales	Desulfotomaculiales	Desulfotomaculiales	0.3	1.3	0.3	0.1	0.1	0.3	0.0
Firmicutes	Firmicutes	Firmicutes	Firmicutes	Firmicutes	0.1	0.3	0.0	0.0	0.2	0.0	0.0
Firmicutes	Incertae Sedis	Thermolithobacteriales	Thermolithobacteriales	Thermolithobacter	0.0	0.7	0.0	0.1	0.0	0.1	0.0
Firmicutes	Moorella	Desulfobacteriales	Desulfobacteriales	Desulfobacter	0.3	1.2	0.3	0.2	1.5	0.3	0.1
Firmicutes	Thermacetogenia	Thermacetogeniales	Thermacetogeniales	Thermacetogeniaceae	0.1	0.6	0.0	0.2	0.0	0.2	0.1
Patesibacteria	Gracilibacteria	Absconditabacteriales (SR1)	Absconditabacteriales (SR1)	Absconditabacteriales (SR1)	0.0	0.1	0.0	0.0	0.0	1.7	0.0
Proteobacteria	Alphaproteobacteria	Caulobacteriales	Hyphomonadaceae	Hyphomonadaceae	0.0	0.1	0.0	2.1	0.0	0.0	0.0
Proteobacteria	Alphaproteobacteria	Caulobacteriales	Hyphomonadaceae	Hyphomonas	0.0	0.1	0.4	0.3	0.5	0.3	0.1
Proteobacteria	Alphaproteobacteria	Parvibaculales	Parvibaculaceae	Parvibaculaceae	0.0	0.2	0.2	1.3	0.0	0.0	0.2
Proteobacteria	Alphaproteobacteria	Parvibaculales	Parvibaculaceae	Parvibaculum	0.1	0.7	0.1	0.1	0.0	0.0	0.0
Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Cohesibacter	0.1	0.2	0.2	1.1	0.2	0.0	0.1
Proteobacteria	Alphaproteobacteria	Rhodobacteriales	Rhodobacteraceae	Paracoccus	0.6	2.8	0.6	0.6	0.3	0.0	0.4
Proteobacteria	Alphaproteobacteria	Rhodobacteriales	Rhodobacteraceae	Rhodobacteraceae	0.6	2.5	3.0	6.6	1.7	2.4	3.3
Proteobacteria	Alphaproteobacteria	Rhodobacteriales	Rhodobacteraceae	Ruegeria	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Proteobacteria	Alphaproteobacteria	Rhodospirillales	AEGEAN-169 marine group	AEGEAN-169 marine group	0.0	0.4	0.0	0.0	0.1	0.0	0.1
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Magnetospiraceae	Magnetovibrio	1.1	4.6	2.4	13.4	0.4	2.5	19.0
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Terasakiellaceae	Terasakiella	0.0	0.1	0.0	0.0	0.5	0.0	0.0
Proteobacteria	Alphaproteobacteria	Rhodospirillales	Thalassospiraceae	Thalassospira	0.5	0.1	0.0	0.0	0.1	0.0	0.1
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacter	0.0	0.5	0.2	0.1	0.1	1.3	0.7
Proteobacteria	Alphaproteobacteria	Thalassobaculales	Thalassobaculaceae	Thalassobaculaceae	0.0	0.0	0.1	2.0	0.0	0.6	0.4
Proteobacteria	Gammaaproteobacteria	CH2b56	CH2b56	CH2b56	0.0	0.0	0.4	0.0	0.0	0.1	1.5
Proteobacteria	Gammaaproteobacteria	Chromatiales	Sedimenticolaceae	Candidatus Thiodiazotropha	0.0	0.2	0.0	0.2	1.7	0.5	0.1
Proteobacteria	Gammaaproteobacteria	Ectothiorhodospirales	Thiohalophilus	Thiohalophilus	1.0	0.4	0.6	5.2	0.9	0.5	0.2
Proteobacteria	Gammaaproteobacteria	Enterobacteriales	Pseudalteromonadaceae	Pseudalteromonas	1.9	0.0	0.0	0.0	0.1	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Enterobacteriales	Shewanellaceae	Shewanella	0.5	0.2	0.0	0.0	0.0	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Enterobacteriales	Vibrionaceae	Vibrio	0.3	0.2	0.0	0.1	0.2	0.2	0.0
Proteobacteria	Gammaaproteobacteria	Gammaaproteobacteria Incertae Sedis	Unknown Family	Unknown Family	0.5	1.1	3.5	3.8	1.5	10.3	10.9
Proteobacteria	Gammaaproteobacteria	Immundisolibacteriales	Immundisolibacteraceae	Immundisolibacter	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Halomonadaceae	Halomonas	0.5	0.4	0.2	0.2	0.0	0.3	0.1
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Marinobacteraceae	Marinobacter	3.2	1.1	1.5	2.6	1.1	0.4	0.3
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter	0.1	0.3	1.8	0.0	0.0	0.0	0.2
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Nitricolaceae	Amphritea	0.2	0.3	0.0	0.6	0.4	0.0	0.1
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Nitricolaceae	Marinobacterium	0.8	0.0	0.0	0.0	0.2	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Nitricolaceae	Neptunomonas	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Pseudomonadales	Nitricolaceae	Nitricola	0.6	0.1	0.0	0.0	0.0	0.0	0.0
Proteobacteria	Gammaaproteobacteria	Steroidobacteriales	Woeseiaceae	Woeseia	3.3	0.0	3.0	0.4	1.2	1.7	0.5
Proteobacteria	Gammaaproteobacteria	Thiotrichales	Thiotrichaceae	Thiotrichaceae	3.2	0.0	3.0	0.2	1.8	1.3	0.9
Spirochaetota	Spirochaetota	Spirochaetales	Spirochaetales	Alkalispichoeta	0.5	0.1	1.4	0.0	0.0	1.0	0.0
Spirochaetota	Spirochaetota	Spirochaetales	Spirochaetales	Sediminispirochaeta	0.6	0.2	0.0	0.0	0.5	1.2	0.1
Spirochaetota	Spirochaetota	Spirochaetales	Spirochaetales	Spirochaeta 2	1.0	0.1	0.6	0.2	0.0	4.3	0.1
Thermotogota	Thermotogota	Kosmotogales	Kosmotogaceae	Kosmotoga	0.3	1.6	0.4	0.2	0.2	0.1	0.1

C. Coupons. Phylum level taxa, with the exception of Alphaproteobacteria and Gammaproteobacteria (Class level).

Taxon	R1c2	R1c3	R2c1	R2c2	R2c3	R3c1	R3c2	R3c3	R4c1	R4c2	R4c3	R5c1	R5c2	R5c3	R6c1	R6c2	R6c3	R7c1	R7c2	R7c3	R8c1	R8c2	R8c3
Acetothermia	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8	0.7	0.5	0.7	0.9	0.7
Actinobacteriota	0.7	1.0	4.1	4.4	5.0	0.7	1.0	2.7	0.9	0.4	0.5	1.1	3.8	2.4	2.3	3.2	1.7	0.3	0.4	1.0	0.5	0.5	0.6
Bacteroidota	0.5	0.5	5.3	1.5	3.4	1.3	1.2	2.1	0.3	0.4	0.4	0.8	3.8	1.4	2.2	2.9	2.2	1.8	1.0	0.8	0.9	1.2	1.6
Campylobacterota	7.0	5.5	14.0	4.2	11.6	1.4	1.0	1.3	2.0	1.7	1.1	3.6	4.8	3.3	6.9	5.3	5.0	1.3	1.6	1.5	0.6	0.9	0.9
Chloroflexi	0.1	0.3	0.1	1.0	0.2	0.9	0.4	0.6	7.4	6.5	7.1	0.4	0.8	0.5	1.9	0.9	1.3	1.0	0.4	0.5	0.6	0.5	0.4
Cyanobacteria	0.9	1.0	0.8	4.2	0.7	0.4	0.7	0.7	0.5	0.1	0.8	0.3	2.6	0.8	4.5	0.0	2.0	0.1	0.4	0.2	0.1	0.4	0.3
Deferribacterota	1.7	2.2	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
Desulfobacterota	66.0	63.3	53.8	42.2	41.8	82.6	82.7	76.0	71.7	75.4	76.1	76.2	41.7	64.2	40.7	57.7	50.9	77.6	79.4	81.3	85.6	83.5	84.9
Elusimicrobiota	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.1	2.4	2.5	1.3	0.0	0.0	0.0
Firmicutes	12.3	14.8	5.8	24.2	8.2	6.2	6.7	8.6	4.9	3.7	3.1	8.7	20.0	14.1	21.5	16.0	23.3	4.5	4.7	4.0	5.0	5.9	4.3
* Alpha Proteobacteria	3.1	4.3	8.6	11.9	23.3	2.3	2.9	3.1	4.6	5.4	4.7	2.8	10.6	5.2	7.0	4.6	5.5	1.6	1.5	2.8	2.5	2.4	2.4
* Gamma Proteobacteria	5.8	4.8	6.8	3.2	4.2	3.0	1.8	2.8	6.9	5.6	4.8	4.8	5.0	5.6	9.1	7.0	4.9	5.2	4.9	4.0	2.3	2.2	2.8
Spirochaetota	0.3	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.5	0.1	1.6	1.2	1.2	0.2	0.2	0.2	0.1	0.6	0.3
Synergistota	0.2	0.1	0.1	0.3	0.0	0.0	0.1	0.4	0.0	0.0	0.1	0.0	0.9	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Thermotogota	0.3	0.6	0.2	0.9	0.4	0.5	0.4	0.7	0.1	0.2	0.3	0.6	1.9	0.9	0.4	0.4	0.5	0.1	0.4	0.3	0.2	0.1	0.2

D. Coupons. Genus level.

Phylum	Class	Order	Family	Genus	R1c2	R1c3	R2c1	R2c2	R3c1	R3c2	R3c3	R4c1	R4c2	R4c3	R5c1	R5c2	R5c3	R6c1	R6c2	R6c3	R7c1	R7c2	R7c3	R8c1	R8c2	R8c3
Acetothermia	Acetothermia	Acetothermia	Acetothermia	Acetothermia	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Actinobacteria	Actinobacteria	Actinominales	Actinominales	Actinominales	0.1	0.1	0.0	0.0	0.2	0.2	0.3	0.0	0.1	0.1	0.0	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.1
Actinobacteria	Actinobacteria	Corynebacteriales	Dietziaceae	Dietzia	0.0	0.1	0.2	1.4	0.0	0.0	0.2	0.3	0.2	0.2	0.1	0.2	0.7	0.3	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.2
Actinobacteria	Actinobacteria	Micrococcales	Cellulomonadaceae	Actinotalea	0.2	0.2	2.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Actinobacteria	Actinobacteria	Micrococcales	Intrasporangiaceae	Ornithinococcus	0.0	0.0	0.1	1.1	0.1	0.0	0.0	0.7	0.2	0.0	0.0	0.5	0.4	0.5	0.1	0.2	0.3	0.0	0.2	0.1	0.1	0.0
Actinobacteria	Actinobacteria	Micrococcales	Micrococaceae	Nesterenkonia	0.4	0.6	1.6	1.3	1.9	0.5	0.7	0.8	0.3	0.1	0.4	0.4	0.6	0.7	1.3	3.2	1.0	0.2	0.1	0.6	0.3	0.2
Bacteroidota	Bacteroidia	Bacteroidales	Bacteroidetes BD2-2	Bacteroidetes BD2-2	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.4	0.0	0.0	0.0	0.2	0.6	0.1	0.0	0.3	0.1	1.0	0.3	0.2	0.6	0.7
Bacteroidota	Bacteroidia	Bacteroidales	Prolixibacteraceae	Dracombacterium	0.0	0.1	0.7	0.0	0.7	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.1	0.3	1.5	0.6	0.0	0.0	0.0	0.0	0.0
Bacteroidota	Bacteroidia	Bacteroidales	Prolixibacteraceae	Prolixibacteraceae	0.1	0.1	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.8	0.7	1.0	0.4	0.2	0.1	0.0	0.2
Bacteroidota	Bacteroidia	Flavobacteriales	Flavobacteriaceae	Lulibacter	0.0	0.1	4.72	0.2	2.7	0.4	0.3	0.4	0.0	0.1	0.1	0.1	0.9	0.3	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.3
Bacteroidota	Bacteroidia	Sphingobacteriales	Lentimicrobiaceae	Lentimicrobiaceae	0.2	0.0	0.0	0.7	0.1	0.2	0.2	0.6	0.0	0.0	0.0	0.1	0.7	0.3	0.1	0.1	0.1	0.5	0.2	0.2	0.1	0.1
Campylobacterota	Campylobacteri	Campylobacterales	Arcoabacteraceae	Arcoabacteraceae	1.5	1.8	4.4	0.0	4.4	0.1	0.0	0.2	0.4	0.4	0.3	0.3	1.1	0.6	1.7	1.1	1.1	0.5	0.6	0.3	0.3	0.2
Campylobacterota	Campylobacteri	Arcoabacterales	Arcoabacteraceae	Halarcobacter	2.4	1.5	3.0	0.6	4.4	0.4	0.4	0.1	0.3	0.2	0.1	0.9	1.6	0.6	1.4	0.3	1.3	0.1	0.2	0.2	0.0	0.1
Campylobacterota	Campylobacteri	Campylobacterales	Arcoabacteraceae	Poseidonibacter	2.8	3.0	6.6	2.9	3.4	0.8	0.6	0.8	1.2	1.0	0.7	2.3	1.8	1.9	3.1	4.1	2.3	0.6	0.7	1.1	0.3	0.5
Campylobacterota	Campylobacteri	Campylobacterales	Sulfurimonadaceae	Sulfurimonas	0.1	0.1	0.1	0.5	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.4	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Campylobacterota	Campylobacteri	Campylobacterales	Sulfurovaceae	Sulfurovum	0.5	0.4	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.3	0.2	1.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
Chloroflexi	Anaerolineae	Anaerolineales	Anaerolineaceae	ADuRB_Bin120	0.1	0.1	0.0	0.8	0.1	0.4	0.2	0.2	7.4	6.5	7.2	0.5	0.4	0.4	0.1	0.0	0.1	0.1	0.2	0.5	0.2	0.2
Chloroflexi	Anaerolineae	Anaerolineales	Anaerolineaceae	Ornatilinea	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.7	0.9	1.2	0.2	0.2	0.0	0.2	0.1
Chloroflexi	Anaerolineae	Anaerolineales	Anaerolineaceae	Pelotinea	0.0	0.0	0.0	0.0	0.5	0.2	0.4	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1
Chloroflexi	Chloroflexia	Thermomicrobiales	IG30-KF-CM45	IG30-KF-CM45	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.5	0.2	0.1	0.0	0.3	0.1	0.0	0.0	0.1	0.1	0.1
Cyanobacteria	Cyanobacteria	Chloroplast	Chloroplast	Chloroplast	0.9	1.1	0.8	4.3	0.8	0.4	0.7	0.7	0.6	0.1	0.9	0.3	2.9	0.9	4.7	0.0	2.1	0.1	0.5	0.2	0.1	0.5
Deferribacterota	Deferribacteres	Deferribacterales	Deferribacteraceae	Dentitrobo	1.1	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacter	24.1	19.4	1.4	6.0	1.1	1.6	1.7	1.8	25.2	26.8	26.2	16.2	6.9	10.5	2.9	1.6	1.8	0.7	2.2	3.1	2.3	1.7
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacteraceae	0.5	0.1	1.6	0.0	1.0	0.3	0.2	0.2	0.1	0.0	0.2	0.0	0.1	0.0	2.9	1.2	2.4	0.0	0.0	0.0	0.0	0.2
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfobacteraceae	Desulfocoenoxum	0.0	0.0	0.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfobacteraceae	Desulfotogira	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.1	0.9	0.2	0.0	0.0	0.0	0.2	0.1	0.2	0.1	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfobacteraceae	Desulfotogirum	1.1	1.0	0.0	0.0	0.2	0.0	0.2	0.2	0.1	0.1	0.7	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.3
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfotolunaceae	Desulfotoluna	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	2.5	1.5	0.9	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcina	0.7	0.8	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcinobacter	0.3	0.2	0.2	0.7	0.3	2.6	4.0	2.1	0.0	0.2	0.2	1.1	0.6	0.7	0.0	0.0	0.3	0.5	0.8	0.1	0.1	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcina	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.0	0.3	0.2	1.7	1.6	0.0	0.0	0.0	0.2	0.1	0.1
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcinaceae	0.0	0.5	13.5	2.2	13.6	0.2	0.3	0.3	0.1	0.5	0.3	0.5	0.9	0.6	4.4	0.7	2.2	0.0	0.1	0.1	0.4	0.4
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Sva0081 sediment group	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	3.9	2.0	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcinaceae	1.3	1.4	0.0	0.0	0.2	0.0	0.2	5.0	6.1	6.3	0.1	0.7	0.7	0.4	0.0	0.0	0.0	2.2	1.2	1.9	0.1	0.4
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcinaceae	18.9	18.5	0.1	1.1	0.0	2.9	2.2	2.7	3.7	4.7	3.7	3.3	1.3	1.7	0.4	0.3	2.4	1.3	2.3	1.0	0.4	1.6
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	Desulfosarcinaceae	1.1	1.0	0.8	0.0	0.6	0.7	0.5	0.5	4.3	4.4	2.5	11.5	1.6	6.9	1.4	3.3	1.4	1.3	1.1	0.7	1.3	2.1
Desulfobacterota	Desulfobacteria	Desulfobacterales	Desulfosarcinaceae	MSBL7	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Desulfosarcinobacter	0.7	0.7	0.4	0.0	0.2	0.4	0.2	0.7	0.2	0.2	0.8	1.2	1.3	0.2	0.0	0.4	0.2	0.3	0.4	0.1	0.3	0.1
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Desulfosarcinobacter	1.3	0.6	1.0	3.8	0.7	58.9	54.6	52.0	0.5	0.6	1.3	5.6	2.8	5.1	0.5	0.4	1.1	2.1	4.0	2.6	1.1	0.6
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Desulfosarcinobacter	0.4	0.9	0.3	2.1	0.3	0.5	0.6	0.4	0.3	0.4	0.7	2.6	1.2	0.4	0.3	0.9	0.2	0.6	0.7	0.3	0.2	0.3
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Desulfosarcinobacter	13.4	16.6	30.1	23.5	23.9	14.4	18.4	16.2	32.7	32.5	35.9	33.6	19.8	33.3	20.1	44.3	31.1	69.0	69.7	69.4	78.2	77.3
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Desulfosarcinobacter	0.2	0.8	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Sva1033	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Syntrophotalea	3.6	3.0	4.0	2.8	1.4	0.0	0.3	0.5	0.9	0.5	0.6	1.3	3.0	1.2	5.3	3.0	5.1	0.5	0.5	1.1	0.0	0.6
Desulfobacterota	Desulfobacteria	Desulfobacteriales	Desulfosarcinaceae	Lineage IV	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	2.4	2.6	1.3	1.0	0.0	0.0
Firmicutes	Bacilli	Acholeplasmatales	Acholeplasmataceae	Acholeplasma	0.1	0.1	0.0	0.2	0.0	0.2	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.1	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillaceae	0.7	0.7	0.4	4.7	1.2	0.5	0.5	0.9	0.5	1.0	0.2	0.9	3.1	1.8	2.2	2.1	0.9	0.4	0.7	0.6	0.4	0.8
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	0.3	0.5	0.7	1.4	0.3	0.3	0.2	0.9	0.6	0.2	0.2	0.8	1.4	1.2	0.7	2.1	2.2	1.5	0.4	0.3	0.4	0.2
Firmicutes	Bacilli	Caldalkalibacillales	Caldalkalibacillaceae	Caldalkalibacillus	0.7	1.0	2.3	2.2	3.0	0.5	0.4	1.0	0.7	0.6	0.9	0.7	1.4	1.2	2.4	5.3	2.8	0.2	0.5	0.1	0.4	0.5
Firmicutes	Bacilli	Erysipelotrichales	Erysipelotrichaceae	Erysipelotrich	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Firmicutes	Bacilli	Izomoplasmales	Izomoplasmataceae	Izomoplasmataceae	0.1	0.4	0.0	0.2	0.2	0.1	0.3	0.3	0.2	0.2	0.3	0.5	0.4	7.5	0.3	0.3	0.7	0.1	0.7	0.9	0.6	
Firmicutes	Bacilli	Izomoplasmales	Izomoplasmataceae	Izomoplasma	3.0	3.2	0.0	0.0	0.0	1.9	2.3	1.6	0.4	0.2	0.2	1.8	1.3	1.7	0.6	0.4	0.3	0.4	0.2	0.4	0.7	0.5
Firmicutes	Clostridia	Clostridia vadinBB60 group	Clostridia vadinBB60 group	Clostridia vadinBB60 group	0.2	0.9	0.0	0.0	0.0																	