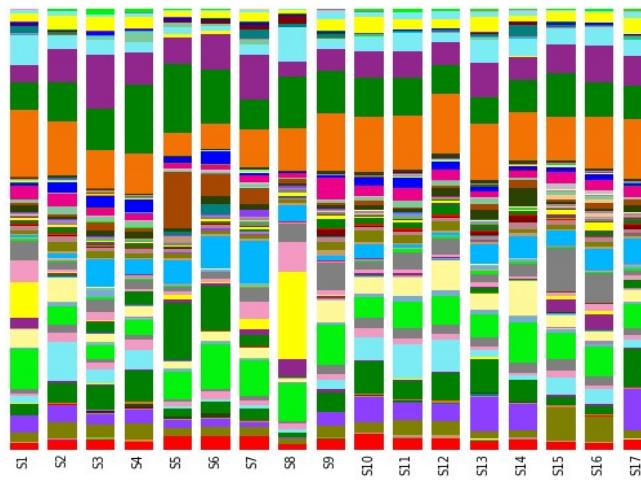


Table S1: Class level diversity for the eight locations analyzed (17 samples). See table 1 for location details.



	Total	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	
Legend	Taxonomy	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
	<i>k_Bacteria_p_Proteobacteria_c_Alphaproteobacteria</i>	10.90%	15.00%	12.30%	8.60%	9.00%	5.30%	5.70%	8.70%	9.60%	12.90%	12.50%	12.30%	13.70%	12.70%	11.00%	10.00%	11.80%	13.50%
	<i>k_Bacteria_p_Proteobacteria_c_Betaproteobacteria</i>	9.30%	6.40%	8.90%	9.50%	15.70%	15.50%	12.30%	6.80%	11.60%	9.60%	9.00%	8.40%	6.40%	6.10%	7.10%	9.80%	7.80%	7.70%
	<i>k_Bacteria_p_Proteobacteria_c_Deltaproteobacteria</i>	6.80%	4.00%	7.40%	12.30%	7.40%	6.10%	8.10%	9.90%	3.50%	5.00%	5.80%	6.20%	5.40%	7.60%	5.40%	6.60%	8.20%	6.80%
	<i>k_Bacteria_p_Actinobacteria_c_Actinobacteria</i>	6.50%	9.20%	4.10%	3.00%	3.30%	6.20%	10.20%	8.00%	8.50%	9.10%	4.70%	6.00%	6.50%	5.20%	9.00%	6.10%	6.70%	5.30%
	<i>k_Bacteria_p_Acidobacteria_c_Solibacteres</i>	4.40%	2.60%	4.50%	5.40%	7.00%	1.90%	2.70%	2.70%	0.90%	4.40%	7.40%	4.10%	6.30%	7.50%	4.90%	2.10%	1.90%	8.80%
	<i>k_Bacteria_p_Chloroflexi_c_Anaerolineae</i>	3.90%	0.50%	1.10%	6.20%	3.40%	5.20%	7.20%	9.60%	3.80%	1.10%	3.10%	0.60%	0.60%	4.50%	4.90%	3.40%	4.70%	5.70%
	<i>k_Bacteria_p_Bacteroidetes_c_[Saprospira]</i>	3.50%	4.30%	1.90%	2.70%	2.30%	1.20%	1.70%	3.20%	4.20%	6.00%	1.90%	3.80%	3.60%	1.80%	2.70%	9.90%	6.90%	1.20%
	<i>k_Bacteria_p_Proteobacteria_c_Gammaproteobacteria</i>	3.50%	6.60%	3.10%	3.20%	2.30%	1.70%	1.00%	2.50%	7.70%	2.20%	3.50%	4.10%	1.90%	5.20%	3.80%	3.40%	4.10%	3.60%
	<i>k_Bacteria_p_Acidobacteria_c_Acidobacteria</i>	3.40%	3.90%	3.70%	2.20%	3.20%	1.90%	1.90%	1.00%	0.20%	3.10%	5.60%	3.70%	4.00%	7.80%	6.00%	0.10%	0.10%	9.40%
	<i>k_Bacteria_p_Actinobacteria_c_Thermoleophilia</i>	3.40%	4.20%	5.40%	1.60%	2.40%	1.60%	2.00%	2.20%	0.90%	4.80%	3.60%	4.20%	6.70%	3.50%	7.70%	2.60%	2.10%	2.60%
	<i>k_Bacteria_p_Acidobacteria_c_[Chloracidobacteria]</i>	3.20%	1.60%	8.70%	3.30%	4.40%	0.40%	0.40%	0.80%	0.90%	2.10%	5.20%	7.70%	7.30%	1.40%	1.00%	3.90%	3.40%	1.70%
	<i>k_Bacteria_p_Acidobacteria_c_Acidobacteria-6</i>	2.90%	2.00%	3.70%	3.10%	3.60%	1.80%	2.10%	1.90%	1.20%	2.70%	2.40%	3.50%	3.10%	1.50%	1.70%	7.50%	5.70%	1.70%
	Unassigned_Other_Other	2.40%	1.60%	2.10%	2.40%	2.00%	3.00%	3.00%	3.20%	1.30%	2.70%	3.50%	2.70%	2.60%	2.10%	2.40%	1.90%	1.60%	2.30%
	<i>k_Bacteria_p_Verrucomicrobia_c_[Pedosphaerae]</i>	2.40%	1.90%	3.20%	3.20%	2.80%	1.50%	1.70%	2.10%	0.60%	2.80%	3.50%	2.30%	1.90%	3.50%	1.20%	2.30%	3.80%	
	<i>k_Bacteria_p_Bacteroidetes_c_Bacteroidia</i>	2.10%	0.00%	0.00%	2.30%	2.90%	13.10%	10.30%	2.70%	0.40%	0.00%	0.10%	0.00%	0.00%	0.90%	0.30%	0.00%	0.10%	1.70%
	<i>k_Bacteria_p_Gemmimonadetes_c_Gemmimonadetes</i>	2.10%	3.00%	2.90%	1.50%	1.80%	1.10%	1.10%	1.50%	0.90%	4.90%	2.30%	2.90%	2.50%	1.30%	1.60%	2.40%	2.30%	2.40%
	<i>k_Bacteria_p_Bacteroidetes_c_Flavobacteriia</i>	2.00%	8.10%	0.10%	0.20%	0.00%	1.10%	0.40%	2.40%	19.80%	0.10%	0.00%	0.00%	0.00%	0.10%	0.00%	0.80%	0.70%	0.00%
	<i>k_Bacteria_p_Firmicutes_c_Clostridia</i>	2.00%	0.40%	0.40%	1.80%	0.80%	12.60%	4.90%	3.70%	0.90%	0.50%	0.90%	0.20%	0.50%	1.20%	1.60%	0.60%	1.20%	1.30%
	<i>k_Bacteria_p_Bacteroidetes_c_Sphingobacteriia</i>	1.70%	5.00%	0.50%	1.70%	0.40%	0.70%	0.70%	3.90%	6.80%	1.20%	0.80%	0.80%	0.70%	1.20%	0.60%	0.90%	1.70%	0.90%
	<i>k_Bacteria_p_Actinobacteria_c_Acidimicrobia</i>	1.60%	1.10%	1.80%	0.90%	1.10%	0.60%	0.60%	1.10%	0.60%	2.10%	2.30%	2.30%	2.10%	1.90%	2.50%	2.60%	2.10%	1.60%
	<i>k_Bacteria_p_Firmicutes_c_Bacilli</i>	1.40%	1.70%	0.70%	1.40%	1.60%	0.90%	2.00%	1.20%	0.50%	0.70%	1.10%	0.90%	1.80%	2.20%	4.20%	0.50%	0.60%	1.40%
	<i>k_Bacteria_p_Nitrospirae_c_Nitrospira</i>	1.40%	0.50%	2.40%	2.60%	2.80%	1.30%	2.80%	0.60%	0.20%	0.60%	1.60%	2.20%	1.60%	1.00%	0.80%	0.90%	1.20%	0.50%
	<i>k_Bacteria_p_Acidobacteria_c_ib1-8</i>	1.30%	0.40%	2.20%	1.50%	2.30%	1.00%	1.70%	0.90%	1.20%	1.30%	2.00%	1.40%	1.20%	0.90%	0.50%	1.50%	0.80%	1.20%
	<i>k_Bacteria_p_Chloroflexi_c_Chloroflexi</i>	1.20%	0.70%	2.20%	1.30%	1.20%	1.00%	0.80%	0.80%	0.70%	1.80%	2.70%	1.90%	2.10%	0.30%	0.70%	0.90%	1.10%	0.60%
	<i>k_Bacteria_p_Bacteroidetes_c_Cytophagia</i>	1.00%	2.40%	0.70%	0.30%	0.10%	0.70%	0.40%	1.30%	3.80%	0.60%	0.20%	0.50%	0.10%	0.20%	2.90%	3.40%	0.10%	
	<i>k_Bacteria_p_Chloroflexi_c_Ellin6529</i>	0.80%	0.90%	1.20%	0.80%	0.80%	0.60%	0.90%	0.70%	0.40%	1.20%	0.70%	0.70%	0.70%	0.70%	1.40%	1.10%	1.10%	0.60%
	<i>k_Bacteria_p_Chloroflexi_c_TK10</i>	0.80%	0.60%	1.00%	0.50%	0.60%	0.30%	0.30%	0.20%	0.10%	2.10%	1.20%	1.30%	2.30%	0.70%	0.60%	0.50%	0.70%	0.80%
	<i>k_Bacteria_p_Gemmimonadetes_c_Gemm-1</i>	0.80%	0.60%	1.70%	1.20%	1.40%	0.40%	0.30%	0.60%	0.30%	0.50%	0.90%	1.50%	1.20%	1.20%	0.50%	0.80%	1.00%	0.30%
	<i>k_Bacteria_p_Verrucomicrobia_c_Spartobacteria</i>	0.80%	0.90%	1.00%	0.50%	0.70%	0.10%	0.10%	0.50%	0.30%	1.60%	1.20%	1.50%	1.90%	1.00%	1.00%	0.20%	0.20%	1.20%
	<i>k_Bacteria_p_Actinobacteria_c_MB-A2-108</i>	0.70%	0.20%	1.00%	0.30%	0.50%	0.60%	0.50%	0.40%	0.10%	0.70%	0.80%	1.40%	1.40%	0.90%	0.90%	0.60%	0.60%	0.50%
	<i>k_Bacteria_p_TM7_c_TM7-1</i>	0.70%	1.70%	0.70%	0.10%	0.10%	0.20%	0.10%	2.10%	0.60%	0.70%	0.30%	0.20%	0.60%	0.50%	2.70%	4.0%	0.30%	0.30%
	<i>k_Bacteria_p_Chloroflexi_c_C0119</i>	0.50%	0.50%	0.50%	0.40%	0.30%	0.50%	0.60%	0.40%	0.50%	1.30%	0.50%	0.30%	0.50%	0.50%	0.80%	0.40%	0.50%	0.50%
	<i>k_Bacteria_p_Chloroflexi_c_Thermomicrobia</i>	0.50%	0.70%	0.60%	0.20%	0.30%	0.20%	0.30%	0.60%	0.90%	0.70%	0.20%	0.40%	0.70%	0.10%	2.10%	1.90%	0.10%	
	<i>k_Bacteria_p_Planctomycetes_c_Planctomyceta</i>	0.50%	0.40%	0.60%	0.30%	0.30%	0.40%	0.40%	0.20%	0.70%	0.70%	0.60%	0.90%	0.70%	0.40%	0.60%	0.60%	0.60%	
	<i>k_Bacteria_p_Chloroflexi_c_Ktedonobacteria</i>	0.40%	0.30%	0.00%	0.10%	0.30%	0.30%	0.30%	0.00%	0.00%	1.70%	0.30%	0.10%	0.30%	0.80%	1.60%	0.00%	0.00%	1.10%
	<i>k_Bacteria_p_Ellisimicrobia_c_Ellisimicrobia</i>	0.40%	0.30%	0.60%	0.30%	0.20%	0.10%	0.10%	0.50%	0.10%	0.20%	0.60%	0.70%	0.40%	0.50%	0.10%	0.50%	0.40%	0.70%
	<i>k_Bacteria_p_WS3_c_PRR-12</i>	0.40%	0.00%	0.40%	1.10%	0.80%	0.30%	0.30%	0.10%	0.00%	0.00%	0.60%	0.60%	0.40%	0.40%	0.20%	0.30%	0.50%	0.30%
	<i>k_Bacteria_p_Chlamydiae_c_Chlamydia</i>	0.30%	0.40%	0.40%	0.50%	0.30%	0.00%	0.00%	0.10%	0.00%	0.10%	0.30%	0.80%	0.40%	0.70%	0.60%	0.10%	0.30%	0.30%
	<i>k_Bacteria_p_Chlorobi_c_BSV26</i>	0.30%	0.00%	0.00%	1.60%	0.30%	0.20%	0.20%	0.30%	0.20%	0.00%	0.00%	0.20%	0.10%	0.00%	0.80%	0.40%	0.00%	0.30%
	<i>k_Bacteria_p_Cyanobacteria_c_Chloroplast</i>	0.30%	0.20%	0.10%	0.10%	0.00%	0.40%	0.50%	0.90%	0.80%	0.60%	0.60%	0.20%	0.10%	0.10%	0.20%	0.20%	0.60%	0.20%
	<i>k_Bacteria_p_Gemmimonadetes_c_Gemm-5</i>	0.30%	0.10%	0.10%	0.10%	0.10%	0.40%	0.60%	0.40%	0.10%	0.20%	0.10%	0.00%	0.00%	0.40%	0.00%	0.00%	0.20%	
	<i>k_Bacteria_p_Spirochaetes_c_Spirochaetes</i>	0.30%	0.00%	0.00%	0.60%	2.30%	0.90%	0.50%	0.80%	0.10%	0.00%	0.10%	0.00%	0.00%	0.40%	0.00%	0.00%	0.00%	0.20%
	<i>k_Bacteria_p_TM7_c_TM7-3</i>	0.30%	0.20%	0.00%	0.00%	0.10%	0.50%	0.70%	1.10%	1.90%	0.10%	0.00%	0.00%	0.00%	0.10%	0.70%	0.00%	0.00%	0.10%
	<i>k_Bacteria_p_Verrucomicrobia_c_Optitiae</i>	0.30%	0.40%	0.10%	0.80%	0.20%	0.40%	0.30%	0.60%	0.20%	0.30%	0.10%	0.10%	0.10%	0.00%	0.50%	0.40%	0.20%	
	<i>k_Bacteria_p_Acidobacteria_c_Acidobacteria-5</i>	0.20%	0.10%	0.40%	0.10%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.20%	0.40%	0.60%	0.10%	0.20%	0.20%	0.10%
	<i>k_Bacteria_p_Acidobacteria_c_BPC102</i>	0.20%	0.00%	0.00%	0.40%	0.30%	0.20%	0.30%	0.30%	0.10%	0.00%	0.00%	0.00%	0.00%	0.20%	0.20%	0.00%	0.10%	0.30%
	<i>k_Bacteria_p_Acidobacteria_c_Holophagae</i>	0.20%	0.00%	0.00%	0.10%	0.80%	0.40%	0.80%	0.20%	0.00%	0.00%	0.10%	0.20%	0.00%	0.10%	0.00%	0.00%	0.00%	0.10%
	<i>k_Bacteria_p_Acidobacteria_c_S035</i>	0.20%	0.00%	0.30%	0.30%	0.40%	0.10%	0.10%	0.00%	0.00%	0.00%	0.30%	0.30%	0.10%	0.10%	0.00%	0.50%	0.40%	0.20%
	<i>k_Bacteria_p_Acidobacteria_c_Sva0725</i>	0.20%	0.10%	0.30%	0.40%	0.30%	0.00%	0.00%	0.00%	0.00%	0.60%	0.20%	0.20%	0.20%	0.10%	0.10%	0.00%	0.10%	0.30%
	<i>k_Bacteria_p_Chlorobac_c_Chlorobac</i>	0.20%	0.30%	0.20%	0.10%	0.20%	0.00%	0.00%	0.30%	0.10%	0.20%	0.10%	0.20%	0.20%	0.20%	0.10%	0.10%	0.10%	0.20%
	<i>k_Bacteria_p_Chloroflexi_c_S085</i>	0.20%	0.20%	0.30%	0.20%	0.10%	0.10%	0.10%	0.00%	0.00%	0.10%	0.20%	0.40%	0.40%	0.30%	0.20%	0.30%	0.40%	0.10%
	<i>k_Bacteria_p_Chloroflexi_c_TK17</i>	0.20%	0.10%	0.20%	0.30%	0.20%	0.10%	0.10%	0.10%	0.10%	0.20%	0.20%	0.30%	0.30%	0.20%	0.30%	0.20%	0.20%	0.20%
	<i>k_Bacteria_p_Fibrobacteres_c_Fibrobacteria</i>	0.20%	0.10%	0.10%	0.00%	0.20%	0.00%	1.70%	0.70%	0.10%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%
	<i>k_Bacteria_p_Fibrobacteres_c_TG3</i>	0.20%	0.00%	0.00%	0.10%	0.00%	0.60%	2.40%	0.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.20%	0.30%	0.00%	0.10%
	<i>k_Bacteria_p_OD1_c_SM2F11</i>	0.20%	0.40%	0.20%	0.10%	0.00%	0.10%	0.20%	0.00%	0.00%	0.00%	0.10%	0.20%	0.30%	0.10%	0.20%	0.50%	0.20%	0.10%
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