Supporting Information

Figure S1: Nonpareil curves for the 22 metagenomes. The plot displays the fitted models of the Nonpareil curves. The horizontal dashed lines indicate 100 (gray) and 95% (red) coverage. The empty circles indicate the size and estimated average coverage of the datasets, and the lines after that point are projections of the fitted model.

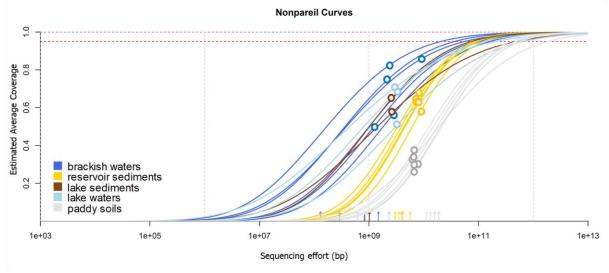


Figure S2. Distribution of hgcA genes in the 22 metagenomes recovered using the co-assembly 'c' and the single assembly 's' methods and applying the three stringency cutoffs defined in this manuscript for the definition of hgcA genes. Abundance values were calculated as hgcA coverage values normalized by rpoB normalized values. Colors denote taxonomic affilitations of hgcA genes.

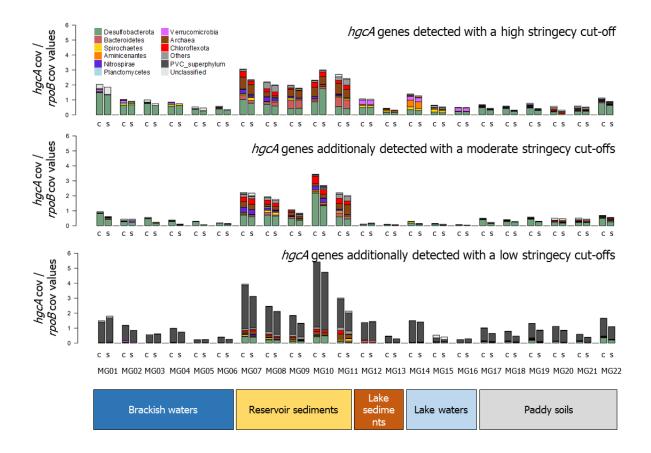


Figure S3: Violin boxplots showing, for each metagenome, the difference in hgcA sequence length distribution comparing the outputs of the co-assembly and the single assembly approaches.

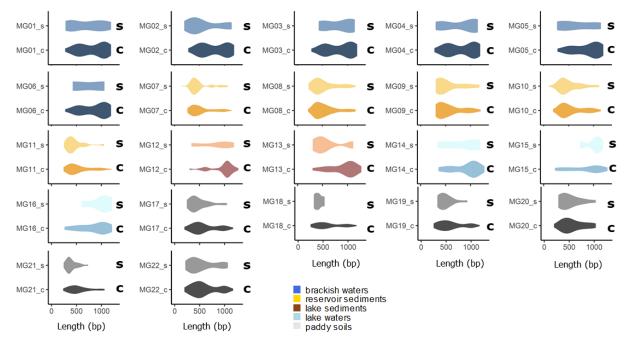


Figure S4: Distribution of *hgcA* genes in the 22 metagenomes with the co-assembly (c) and the single assembly (s) methods with different normalization methods

