Table S1. Variation in sample groupings as explained by Bray-Curtis beta-diversity.

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| --- | --- | --- |
| Grouping | 16S (R2) | ITS (R2) |
| Facilitya | 0.264\*\*\* | 0.277\*\*\* |
| Age of Pile | 0.105\*\*\* | 0.094\*\*\* |
| Sample Typec | 0.026 | 0.028 |
| Sample type (Balefill)d | 0.026 | 0.028 |
| Sample type (Guysborough) | 0.026 | 0.028 |
| Sample type (Fundy) | 0.026 | 0.028 |
| Sample type (Northridge) | 0.026 | 0.028 |

Adonis tests were used to assess whether beta-diversity is related to sample groupings, 999 permutations, R2, \*\*\*P < 0.001.

a Bulk and plastic associated microbial communities from each compost-processing facility combined.

b Bulk and plastic associated microbial communities from the piles with the same age combined.

c Bulk compost vs. plastic associated microbial communities from all compost-processing facilities combined.

d Bulk compost vs. plastic associated microbial communities from individual faculty.