

**Supplemental Figure 1** | Word clouds generated with SprayNPray based on analysis of four of the MAGs from North Pond described in the case study on bin validation (Tully *et al.*, 2018): A) NORP81, B) NORP91, C) NORP151, D) NORP148. This graphic is generated using the R package "wordcloud" (https://cran.r-project.org/web/packages/wordcloud).