



**Figure 1. Initial carbon: nitrogen (C:N) ratios of the cover crop aerial and root residues at time of winterkill.** FP = field pea; DR = daikon radish; MX = mixed cover crop treatment; OT = oat. The red horizontal line represents the immobilization / mineralization threshold level C:N (24:1) established by Trinsoutrot et al. (2000); C:N values above this line encourage net soil N immobilization while values below this line tend towards net soil N mineralization. \*, \*\*, \*\*\* Significant at the 0.05, 0.01 and 0.001 probability levels, respectively; ns = non-significant. Letters across columns signify significant statistical differences in C:N among cover crop treatments. Cover crops were harvested on November 12, 2020 and November 5, 2021 for analysis.