**Tree-scale Presence-Absence data**

**Hypothesis 1:** Koalas preferentially use tree species that are larger in diameter.

**Hypothesis 1a:** Koalas actively select ‘Preference 2,3,4,5,6’ trees that are larger in diameter.

**Hypothesis 1b:** Proportional use of ‘Preference 1’ trees does not increase with increasing tree diameter.

**Hypothesis 2:** Koalas preferentially use tree species that occur of higher nutrient soils.

**Hypothesis 2a:** Greatest proportional use of ‘Preference 1’ trees occurs at sites with higher nutrient soils.

**Hypothesis 2b:** Proportional use of ‘Preference 2,3,4,5,6’ trees is not significantly affected by soil nutrients.

**Hypothesis 3: The p**roportional use of ‘Preference 2,3,4,5,6’ trees is higher when more ‘Preference 1’ tree species area present at a site.

**Hypothesis 4:** Koala preferentially use sites with larger area of highly suitable (P&2A) habitat in the surrounding landscape.

**Hypothesis 5**: The proportional use of highly preferred tree species (Preferred category #1- *E. propinqua, E. microcorys, E. robusta, E. tereticornis*) is higher in landscapes with low amounts of highly suitable (P&2A) habitat.

**Site-Scale Activity data**

**Hypothesis 6:** Active sites with higher koala activity have higher proportions (relative abundance) of ‘Preference 1 and 2’ trees.

**Hypothesis 7:** Active sites with higher koala activity have higher amounts of highly suitable (P&2A) habitat.

**Hypothesis 8:** Active sites with highest koala activity tend to have higher proportions (relative abundance) of ‘Preference 1 and 2’ trees and higher amounts of highly suitable (P&2A) habitat.