

**Appendix S9:** Tukey multiple comparisons of means post hoc tests at 95% family-wise confidence level for geology at the large 9 m<sup>2</sup> grain for alien species.

<b>Geology Type</b>	<b>Difference in means</b>	<b>Lower confidence interval</b>	<b>Upper confidence interval</b>	<b>Adjusted p-value</b>
Grey-bedded Ash - Black Lava	1.040	0.263	1.818	0.002*
Grey Lava - Black Lava	0.072	-0.064	0.207	0.654
Recent (Post 1980) - Black Lava	-0.070	-0.745	0.604	0.999
Scoria - Black Lava	0.110	-0.141	0.360	0.811
Wind-blown Ash - Black Lava	0.044	-0.561	0.649	0.999
Grey Lava - Grey-bedded Ash	-0.968	-1.749	-0.188	0.006*
Recent (Post-1980) - Grey-bedded Ash	-1.111	-2.134	-0.088	0.024*
Scoria - Grey-bedded Ash	-0.931	-1.739	-0.122	0.014*
Wind-blown Ash – Grey-bedded Ash	-0.996	-1.974	-0.018	0.043*
Recent (Post-1980) - Grey Lava	-0.142	-0.821	0.536	0.991
Scoria - Grey Lava	0.038	-0.223	0.298	0.998
Wind-blown Ash - Grey Lava	-0.0278	-0.636	0.581	0.999
Scoria - Recent (Post-1980)	0.180	-0.530	0.890	0.979
Wind-blown Ash - Recent (Post 1980)	0.115	-0.784	1.013	0.999
Wind-blown Ash - Scoria	-0.065	-0.800	0.579	0.999