Pairwise Adonis

[1] "Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1"

pairs F.Model R2 p.value p.adjusted sig

1 11/15/16 Manure Line vs 11/12/16 Manure 38.034413 0.54308177 0.0001 0.0015 \*

2 11/15/16 Manure Line vs 11/8/16 Soil 4.152138 0.08447522 0.0001 0.0015 \*

3 11/15/16 Manure Line vs 11/15/16 Soil 2.886881 0.06028543 0.0002 0.0030 \*

4 11/15/16 Manure Line vs 2/17/17 Soil 3.258267 0.06894596 0.0001 0.0015 \*

5 11/15/16 Manure Line vs 3/22/17 Soil 3.663549 0.07528322 0.0001 0.0015 \*

6 11/12/16 Manure vs 11/8/16 Soil 59.451197 0.65727375 0.0001 0.0015 \*

7 11/12/16 Manure vs 11/15/16 Soil 64.019262 0.67375036 0.0001 0.0015 \*

8 11/12/16 Manure vs 2/17/17 Soil 43.791218 0.59344756 0.0001 0.0015 \*

9 11/12/16 Manure vs 3/22/17 Soil 54.233911 0.63629500 0.0001 0.0015 \*

10 11/8/16 Soil vs 11/15/16 Soil 2.670396 0.05721819 0.0001 0.0015 \*

11 11/8/16 Soil vs 2/17/17 Soil 3.468719 0.07464633 0.0004 0.0060 \*

12 11/8/16 Soil vs 3/22/17 Soil 3.674788 0.07708031 0.0001 0.0015 \*

13 11/15/16 Soil vs 2/17/17 Soil 3.112598 0.06749996 0.0006 0.0090 \*

14 11/15/16 Soil vs 3/22/17 Soil 3.411020 0.07194573 0.0002 0.0030 \*

15 2/17/17 Soil vs 3/22/17 Soil 1.339607 0.03021241 0.1301 1.0000

Shannon Diversity

Df Sum Sq Mean Sq F value Pr(>F)

Date\_Type 5 64.21 12.841 206.4 <2e-16 \*\*\*

Residuals 119 7.41 0.062

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> TukeyHSD(divtest)

Tukey multiple comparisons of means

95% family-wise confidence level

Fit: aov(formula = value ~ Date\_Type, data = p$data)

$Date\_Type

diff lwr upr p adj

11/12/16 Manure-11/08/16 Soil -2.746096847 -3.01980820 -2.47238550 0.0000000

11/15/16 Manure Line-11/08/16 Soil -0.223100604 -0.43395329 -0.01224792 0.0314787

11/15/16 Soil-11/08/16 Soil 0.003651587 -0.20943241 0.21673558 1.0000000

2/17/17 Soil-11/08/16 Soil -0.343756611 -0.55924841 -0.12826481 0.0001401

3/22/17 Soil-11/08/16 Soil -0.173635639 -0.38671963 0.03944836 0.1788614

11/15/16 Manure Line-11/12/16 Manure 2.522996244 2.25101836 2.79497413 0.0000000

11/15/16 Soil-11/12/16 Manure 2.749748435 2.47603709 3.02345978 0.0000000

2/17/17 Soil-11/12/16 Manure 2.402340236 2.12675027 2.67793020 0.0000000

3/22/17 Soil-11/12/16 Manure 2.572461208 2.29874986 2.84617256 0.0000000

11/15/16 Soil-11/15/16 Manure Line 0.226752191 0.01589950 0.43760488 0.0272754

2/17/17 Soil-11/15/16 Manure Line -0.120656008 -0.33394169 0.09262968 0.5748132

3/22/17 Soil-11/15/16 Manure Line 0.049464965 -0.16138772 0.26031765 0.9838956

2/17/17 Soil-11/15/16 Soil -0.347408199 -0.56290000 -0.13191640 0.0001148

3/22/17 Soil-11/15/16 Soil -0.177287226 -0.39037122 0.03579677 0.1611393

3/22/17 Soil-2/17/17 Soil 0.170120972 -0.04537083 0.38561277 0.2076666