**Appendix 16**

SIMPER

Similarity Percentages - species contributions

One-Way Analysis

*Data worksheet*

Name: All gypsum sites for analysis no adjacent no annuals final

Data type: Other

Sample selection: All

Variable selection: All

*Parameters*

Resemblance: S17 Bray Curtis similarity

Cut off for low contributions: 90.00%

*Group 5*

Average similarity: 23.60

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Rhagodia drummondii 0.67 9.52 0.58 40.36 40.36

Atriplex stipitata 0.67 7.41 0.58 31.39 71.75

Enchylaena tomentosa 0.67 6.67 0.58 28.25 100.00

*Group 4*

Average similarity: 25.96

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Atriplex holocarpa 0.75 11.75 1.01 45.26 45.26

Tecticornia halocnemoides 0.40 2.77 0.41 10.68 55.94

Frankenia conferta 0.40 2.75 0.40 10.59 66.53

Gunniopsis septifraga 0.40 2.59 0.41 9.97 76.50

Tecticornia loriae 0.25 1.94 0.22 7.45 83.95

Tecticornia doleiformis 0.30 1.59 0.28 6.14 90.09

*Group 7d*

Less than 2 samples in group

*Group 14c*

Average similarity: 61.52

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Maireana oppositifolia 1.00 21.65 9.64 35.18 35.18

Calandrinia sp.?Meckering 0.83 14.66 1.34 23.82 59.01

Tecticornia syncarpa 0.83 14.02 1.35 22.78 81.79

Disphyma crassifolium 0.50 4.63 0.48 7.53 89.32

Frankenia sp. southern gypsum) 0.50 4.03 0.48 6.55 95.86

*Group 8*

Average similarity: 28.02

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Tecticornia pergranulata 0.79 14.39 1.08 51.36 51.36

Tecticornia syncarpa 0.63 8.09 0.75 28.89 80.25

Tecticornia doleiformis 0.26 1.38 0.24 4.91 85.16

Puccinellia stricta 0.21 0.81 0.19 2.89 88.05

Enchylaena tomentosa 0.21 0.76 0.18 2.70 90.75

*Group 7a*

Average similarity: 31.31

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Darwinia sp. Karonie 1.00 13.55 3.27 43.26 43.26

Rhagodia drummondii 0.80 6.70 1.12 21.41 64.67

Callitris columellaris 0.60 4.92 0.61 15.70 80.38

Austrostipa elegantissima 0.60 3.07 0.61 9.81 90.19

*Group 15*

Average similarity: 36.36

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Frankenia cinerea/punctata complex 1.00 18.18 ####### 50.00 50.00

Tecticornia moniliformis 1.00 18.18 ####### 50.00 100.00

*Group 3b*

Average similarity: 30.82

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Carpobrotus modestus 1.00 14.96 4.62 48.55 48.55

Tecticornia halocnemoides 0.80 8.33 1.11 27.04 75.59

Tecticornia pergranulata 0.40 1.82 0.32 5.90 81.48

Atriplex spongiosa 0.40 1.82 0.32 5.90 87.38

Frankenia cinerea/punctata complex 0.40 1.67 0.32 5.41 92.79

*Group 12*

Less than 2 samples in group

*Group 14a*

Average similarity: 34.92

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Maireana oppositifolia 0.86 5.96 1.47 17.07 17.07

Kippistia suaedifolia 0.86 5.54 1.49 15.86 32.92

Carpobrotus modestus 0.71 3.98 0.91 11.41 44.33

Tecticornia moniliformis 0.71 3.51 0.92 10.04 54.37

Austrostipa juncifolia 0.57 2.76 0.61 7.89 62.27

Leucopogon sp. Kau Rock (M.A. Burgman 1126) 0.57 2.23 0.61 6.38 68.64

Disphyma crassifolium 0.57 2.19 0.61 6.27 74.92

Tecticornia pergranulata 0.43 1.22 0.39 3.49 78.41

Darwinia sp. Karonie (K. Newbey 8503) 0.43 1.14 0.40 3.27 81.68

Austrodanthonia setacea group 0.43 1.11 0.40 3.19 84.87

Lawrencia squamata 0.43 1.01 0.40 2.89 87.76

Calandrinia sp. Meckering (F.Obbens 42/02) 0.43 0.93 0.40 2.68 90.43

*Group 13*

Average similarity: 33.66

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Exocarpos aphyllus 0.67 4.18 0.84 12.43 12.43

Rhagodia crassifolia 0.58 3.42 0.67 10.15 22.58

Atriplex paludosa 0.58 3.29 0.67 9.76 32.34

Austrodanthonia setacea group 0.58 3.05 0.67 9.07 41.42

Pittosporum angustifolium 0.58 2.99 0.67 8.88 50.30

Maireana oppositifolia 0.58 2.92 0.67 8.66 58.97

Threlkeldia diffusa 0.42 1.56 0.42 4.65 63.61

Tecticornia pterygosperma subsp. pterygosperma 0.42 1.56 0.42 4.63 68.25

Austrostipa elegantissima 0.42 1.43 0.42 4.26 72.51

Austrostipa drummondii 0.42 1.40 0.42 4.15 76.66

Lawrencia squamata 0.42 1.36 0.42 4.04 80.70

Enchylaena tomentosa 0.42 1.34 0.42 3.97 84.67

Frankenia tetrapetala 0.33 0.93 0.31 2.78 87.45

Tecticornia moniliformis 0.33 0.90 0.31 2.68 90.12

*Group 3a*

Average similarity: 50.42

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Tecticornia halocnemoides 1.00 46.90 2.52 93.03 93.03

*Group 14d*

Average similarity: 49.85

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Disphyma crassifolium 1.00 10.13 6.15 20.31 20.31

Tecticornia moniliformis 1.00 10.13 6.15 20.31 40.63

Lawrencia squamata 0.75 5.61 1.02 11.26 51.88

Frankenia sp. southern gypsum (M.N. Lyons 2864) 0.75 5.05 1.03 10.13 62.01

Frankenia tetrapetala 0.75 4.95 1.04 9.93 71.94

Maireana oppositifolia 0.63 3.24 0.72 6.50 78.44

Austrostipa pycnostachya 0.63 3.24 0.72 6.50 84.95

Atriplex paludosa 0.50 2.04 0.50 4.09 89.04

Melaleuca hamulosa 0.50 2.03 0.51 4.08 93.12

*Group 14e*

Average similarity: 48.24

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Tecticornia moniliformis 1.00 18.08 3.30 37.49 37.49

Frankenia sp. southern gypsum (M.N. Lyons 2864) 1.00 18.08 3.30 37.49 74.97

Disphyma crassifolium 0.60 4.02 0.61 8.33 83.31

Tecticornia halocnemoides 0.60 4.02 0.61 8.33 91.64

*Group 11*

Average similarity: 32.91

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Lawrencia squamata 1.00 16.61 3.40 50.48 50.48

Frankenia sp. southern gypsum (M.N. Lyons 2864) 0.67 7.41 0.58 22.51 72.99

Maireana erioclada 0.67 4.44 0.58 13.50 86.50

Austrodanthonia acerosa 0.67 4.44 0.58 13.50 100.00

*Group 7f*

Average similarity: 30.03

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Rhagodia drummondii 1.00 7.71 4.78 25.66 25.66

Austrostipa elegantissima 1.00 7.71 4.78 25.66 51.32

Disphyma crassifolium 0.67 3.17 0.58 10.57 61.89

Austrostipa pycnostachya 0.67 2.38 0.58 7.93 69.82

Melaleuca lanceolata 0.67 2.38 0.58 7.93 77.75

Thysanotus manglesianus 0.67 2.38 0.58 7.93 85.68

Enchylaena tomentosa 0.67 2.15 0.58 7.16 92.84

*Group 2*

Average similarity: 35.54

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Tecticornia lylei 1.00 31.86 3.20 89.66 89.66

Frankenia cinerea/punctata complex 0.30 2.22 0.26 6.25 95.91

*Group 6*

Average similarity: 22.15

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Darwinia sp. Karonie (K. Newbey 8503) 0.75 6.91 0.90 31.17 31.17

Daviesia benthamii 0.75 6.56 0.91 29.63 60.80

Leucopogon sp. Kau Rock (M.A. Burgman 1126) 0.50 2.38 0.41 10.75 71.55

Callitris preissii 0.50 2.38 0.41 10.75 82.30

Santalum acuminatum 0.50 1.96 0.41 8.85 91.15

*Group 1*

Average similarity: 18.18

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Eucalyptus myriadena 1.00 18.18 ####### 100.00 100.00

*Group 10*

Average similarity: 38.62

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Atriplex vesicaria 1.00 16.31 6.54 42.23 42.23

Atriplex paludosa 0.75 7.17 0.91 18.56 60.79

Sclerolaena diacantha 0.75 7.17 0.91 18.56 79.35

Austrodanthonia setacea group 0.50 3.03 0.41 7.85 87.20

Frankenia pauciflora 0.50 2.56 0.41 6.64 93.83

*Group 7e*

Average similarity: 74.19

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Rhagodia drummondii 1.00 7.71 15.59 10.40 10.40

Alyxia buxifolia 1.00 7.71 15.59 10.40 20.80

Billardiera lehmanniana 1.00 7.71 15.59 10.40 31.19

Calandrinia eremaea 1.00 7.71 15.59 10.40 41.59

Carpobrotus modestus 1.00 7.71 15.59 10.40 51.99

Threlkeldia diffusa 1.00 7.71 15.59 10.40 62.39

Atriplex hymenotheca 1.00 7.71 15.59 10.40 72.79

Austrostipa pycnostachya 1.00 7.71 15.59 10.40 83.18

Eucalyptus aff. incrassata 1.00 7.71 15.59 10.40 93.58

*Group 7c*

Average similarity: 48.48

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Alyxia buxifolia 1.00 6.06 ####### 12.50 12.50

Austrostipa elegantissima 1.00 6.06 ####### 12.50 25.00

Austrostipa juncifolia 1.00 6.06 ####### 12.50 37.50

Billardiera lehmanniana 1.00 6.06 ####### 12.50 50.00

Comesperma integerrimum 1.00 6.06 ####### 12.50 62.50

Darwinia sp. Karonie (K. Newbey 8503) 1.00 6.06 ####### 12.50 75.00

Leucopogon sp. Kau Rock (M.A. Burgman 1126) 1.00 6.06 ####### 12.50 87.50

Austrodanthonia setacea group 1.00 6.06 ####### 12.50 100.00

*Group 14h*

Less than 2 samples in group

*Group 14b*

Less than 2 samples in group

*Group 14g*

Average similarity: 72.73

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Austrostipa juncifolia 1.00 9.09 ####### 12.50 12.50

Disphyma crassifolium 1.00 9.09 ####### 12.50 25.00

Tecticornia moniliformis 1.00 9.09 ####### 12.50 37.50

Tecticornia halocnemoides 1.00 9.09 ####### 12.50 50.00

Frankenia setosa/glomerata complex 1.00 9.09 ####### 12.50 62.50

Frankenia tetrapetala 1.00 9.09 ####### 12.50 75.00

Calandrinia granulifera 1.00 9.09 ####### 12.50 87.50

Gunniopsis septifraga 1.00 9.09 ####### 12.50 100.00

*Group 14f*

Average similarity: 53.85

Species Av.Abund Av.Sim Sim/SD Contrib% Cum.%

Rhagodia drummondii 1.00 3.85 ####### 7.14 7.14

Alyxia buxifolia 1.00 3.85 ####### 7.14 14.29

Austrostipa elegantissima 1.00 3.85 ####### 7.14 21.43

Dianella brevicaulis 1.00 3.85 ####### 7.14 28.57

Disphyma crassifolium 1.00 3.85 ####### 7.14 35.71

Exocarpos aphyllus 1.00 3.85 ####### 7.14 42.86

Callitris columellaris 1.00 3.85 ####### 7.14 50.00

Tecticornia moniliformis 1.00 3.85 ####### 7.14 57.14

Scaevola spinescens 1.00 3.85 ####### 7.14 64.29

Calandrinia sp. Meckering 1.00 3.85 ####### 7.14 71.43

Frankenia tetrapetala 1.00 3.85 ####### 7.14 78.57

Lepidium rotundum 1.00 3.85 ####### 7.14 85.71

Calandrinia granulifera 1.00 3.85 ####### 7.14 92.86

*Group 7b*

Less than 2 samples in group

*Group 9*

Less than 2 samples in group