



DOCUMENT REVISION HISTORY

"

Revision	Description	Originator	Internal Reviewer	Internal Review Date	Client Reviewer	Client Review Date
C"	Ftch'Tgr qtv'	FE"	EI "	; B4236"	Uwctv'J cy nku"	381234236"
2"	Eikpv'Ego o gpw' Kpeqr qtcvgf = Hpcr'Tgr qtv'	FE"	EI "	644236"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"

"

Y GE'T ght gpeg<EP T35/24/23"

"

Eqxgt'Rj qvq<" Uqwj gtp'Mqqn{cpqddkpi 'Tcpi g."y kj "Ncng'Ugcedtqan'lp"vj g"dcem tqwpf."  
4235'Rj qvq<Y qf o cp'Gpxkqpo gpvcn'Eqpuwnkpi +"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

DISCLAIMER

"

Vj ku' f qewo gpv' ku' r tgr ctgf " kp" ceeqtf cpeg" y kj " cpf " uwdlgev' vq" cp" ci tgggo gpv' dgvy ggp"  
Y qf o cp" Gpxkqpo gpvcn'Eqpuwnkpi "Rv' "Nf " \*Y qf o cp" Gpxkqpo gpvcn' + "cpf "vj g" Eikpv'  
\*Erihu'Cuk'Rcekhe'Kqp'Qtg'Rv' "Nf + "hqt" y j qo "kv' cu'dggp" r tgr ctgf . "cpf "ku'tgutlevgf "vq"vj qug"  
kuwgu"vj cv'j cxg'dggp'tckugf "d{ "vj g" Eikpv'lp"ku" gpi ci go gpv'qh"Y qf o cp" Gpxkqpo gpvcn'cpf "  
r tgr ctgf "wulpi "vj g"ucpf ctf "qh'unkn'cpf "ectg"qtf kpctkn' "gz gtekugf "d{ "Gpxkqpo gpvcn'Uekpv'kuu"  
kp"vj g" r tgr ctv'kqp"qh'uwej "F qewo gpw0"

"

Cp{ "qti cpluc'kqp"qt"r gtuqp"vj cv'tgnku"qp"qt "wugu"vj ku' f qewo gpv' hqt" r wtr qugu"qt "tgcuppu"qvj gt"  
vj cp"vj qug"ci tggf "d{ "Y qf o cp" Gpxkqpo gpvcn'cpf "vj g" Eikpv'y kj qw'htuv'qdv'kpi "vj g" r tkqt"  
y tkwgp"eqpugpv'qh"Y qf o cp" Gpxkqpo gpvcn' f qgu'uq"gpvtgn' "cv'vj gk"qy p'tkun'cpf "Y qf o cp"  
Gpxkqpo gpvcn'f gplgu'cm'htcdk'k' "kp"vqv' "eqpv'cev'qt"qvj gty kug" hqt"cp{ "nuu. "f co ci g"qt "kplwt { "  
qh'cp{ "nkpf " y j cwqgxgt" \*y j gyj gt" kp" pgi rki gpeg" qt"qvj gty kug" + "vj cv' o c{ "dg" uwhgtgf "cu" c"  
eqpugs wpeg"qh'tgn'kpi "qp"vj ku' f qewo gpv' hqt"cp{ " r wtr qug"qvj gt"vj cp"vj cv'ci tggf "y kj "vj g"  
Eikpv0'

# TABLE OF CONTENTS

<b>EXECUTIVE SUMMARY</b> .....	<b>i</b>
<b>1. INTRODUCTION</b> .....	<b>1</b>
1.1 PROJECT AND STUDY DESCRIPTION .....	3
1.2 AIMS AND TASKS .....	5
<b>2. BACKGROUND</b> .....	<b>4</b>
2.1 STUDY AREA .....	5
2.2 CLIMATE .....	5
2.3 LANDFORMS, GEOLOGY AND SOILS .....	7
2.4 REGIONAL VEGETATION .....	7
2.5 REGIONAL FLORA .....	2
2.6 LOCAL FLORA AND VEGETATION SURVEYS .....	3
2.7 OVERVIEW OF CONSERVATION SIGNIFICANT AND INTRODUCED TAXA .....	5
<b>3. METHODS</b> .....	<b>18</b>
3.1 PERSONNEL AND LICENSING .....	3
3.2 AERIAL PHOTOGRAPHY INTERPRETATION .....	3
3.3 FIELD SURVEY METHODS .....	3
3.4 PLANT COLLECTION AND IDENTIFICATION .....	4
3.5 FLORISTIC ANALYSIS .....	4
3.6 ADEQUACY OF SURVEY .....	5
3.7 VEGETATION UNIT MAPPING AND DESCRIPTION .....	6
3.8 VEGETATION CONDITION MAPPING .....	6
3.9 SURVEY LIMITATIONS .....	6
3.10 RECORDING OF MALLEEFOWL NEST MOUND LOCATIONS .....	8
<b>4. RESULTS</b> .....	<b>27</b>
4.1 FLORA OF THE STUDY AREA .....	49
4.1.1 Vascular Flora Census .....	49
4.1.2 Conservation Significant Flora Taxa .....	49
4.1.3 Other Flora of Interest .....	78
4.1.4 Introduced Flora Taxa .....	79
4.1.5 Distribution Extensions and Distribution Gaps .....	85
4.2 VEGETATION OF THE STUDY AREA .....	87
4.2.1 Vegetation Unit Mapping .....	87
4.2.2 Other Areas Mapped .....	95
4.2.3 Vegetation Condition .....	95
4.2.4 Threatened Ecological Communities .....	97
4.2.5 Priority Ecological Communities .....	97
<b>5. DISCUSSION</b> .....	<b>76</b>
5.1 FLORA OF THE STUDY AREA .....	98
5.2 VEGETATION OF THE STUDY AREA .....	99
<b>6. REFERENCES</b> .....	<b>79</b>

## LIST OF FIGURES

- Figure 1: Southern Koolyanobbing Range - Study Area Location
- Figure 2: Rainfall (mm) for Koolyanobbing Townsite (Bureau of Meteorology 2013a) and Maximum and Minimum Temperatures (°Celsius) for Southern Cross Airfield (Bureau of Meteorology 2013b)
- Figure 3: Study Area and Vegetation System Associations
- Figure 4: Study Area and Location of DPaW-Classified PEC Boundary
- Figure 5: Study Area, Survey Quadrats and Track Logs
- Figure 6.1: Distribution of *Tetratheca erubescens* (R) in the Study Area and Surrounds
- Figure 6.2: Distribution of *Beyeria rostellata* (P1) in the Study Area and Surrounds
- Figure 6.3: Distribution of *Acacia dissona* var. *indoloria* (P3) in the Study Area and Surrounds
- Figure 6.4: Distribution of *Austrostipa blackii* (P3) in the Study Area and Surrounds
- Figure 6.5: Distribution of *Hibbertia lepidocalyx* subsp. *tuberculata* (P3) in the Study Area and Surrounds
- Figure 6.6: Distribution of *Lepidosperma ferricola* (P3) in the Study Area and Surrounds
- Figure 6.7: Distribution of *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3) in the Study Area and Surrounds
- Figure 6.8: Distribution of *Stenanthemum newbeyi* (P3) in the Study Area and Surrounds
- Figure 6.9: Distribution of *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3) in the Study Area and Surrounds
- Figure 6.10: Distribution of *Banksia arborea* (P4) in the Study Area and Surrounds
- Figure 6.11: Distribution of Potential Undescribed Taxa in the Study Area and Surrounds
- Figure 7: Study Area and Introduced Flora Taxa
- Figure 8: Vegetation Units
- Figure 9: Vegetation Condition

## LIST OF TABLES

- Table 1: Extent of Vegetation Associations within the Study Area (Government of Western Australia 2013a)
- Table 2: Conservation Significant Flora Taxa Potentially Occurring within the Study Area
- Table 3: Introduced Taxa Known to Occur Within or in the Vicinity of the Study Area
- Table 4: Personnel and Licensing Information
- Table 5: Limitations of the Flora and Vegetation Survey of the Study Area
- Table 6: Summary of Conservation Significant Taxa Known from within the Study Area



Table 7:	Taxa Where Collections Represent Extensions to the Known Distribution of these Taxa, or Fill Distribution Gaps (DPaW 2014a)
Table 8:	Summary of Introduced Taxa Recorded from within the Study Area
Table 9:	Summary of Vegetation Units Defined in the Study Area and Adjacent Mapped Area

"

### LIST OF PLATES

Plate 1:	<i>Tetrabecca erubescens</i> (R)
Plate 2:	Regional Distribution of <i>Tetrabecca erubescens</i> (DPaW 2014a)
Plate 3:	<i>Beyeria rostellata</i> (P1)
Plate 4:	Regional Distribution of <i>Beyeria rostellata</i> (DPaW 2014a)
Plate 5:	<i>Acacia dissona</i> var. <i>indoloria</i> (P3)
Plate 6:	Regional Distribution of <i>Acacia dissona</i> var. <i>indoloria</i> (DPaW 2014a)
Plate 7:	<i>Austrostipa blackii</i> (P3)
Plate 8:	Regional Distribution of <i>Austrostipa blackii</i> (DPaW 2014a)
Plate 9:	<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)
Plate 10:	Regional Distribution of <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (DPaW 2014a)
Plate 11:	<i>Lepidium genistoides</i> (P3)
Plate 12:	Regional Distribution of <i>Lepidium genistoides</i> (DPaW 2014a)
Plate 13:	<i>Lepidosperma ferricola</i> (P3)
Plate 14:	Regional Distribution of <i>Lepidosperma ferricola</i> (DPaW 2014a)
Plate 15:	<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3)
Plate 16:	Regional Distribution of <i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (DPaW 2014a)
Plate 17:	<i>Stenanthemum newbeyi</i> (P3)
Plate 18:	Regional Distribution of <i>Stenanthemum newbeyi</i> (DPaW 2014a)
Plate 19:	<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3)
Plate 20:	Regional Distribution of <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (DPaW 2014a)
Plate 21:	<i>Banksia arborea</i> (P4)
Plate 22:	Regional Distribution of <i>Banksia arborea</i> (DPaW 2014a)

### LIST OF APPENDICES

Appendix A:	Results of Search of the Department of the Environment, (DoE) Database with Regard to Environmental Matters of National Significance
-------------	--

---

Appendix B:	Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (DPaW 2010)
Appendix C:	Results of the Interrogation of the Department of Parks and Wildlife's Western Australian Herbarium (WAHerb) Specimen Database, Threatened and Priority Flora Database (TPFL) and Threatened and Priority Flora List (TP List) (DPaW 2013e)
Appendix D:	Conservation Codes for Western Australian Flora and Fauna (DPaW 2013e)
Appendix E:	Environmental Weed Strategy - Criteria for the Assessment and Rating of Weeds in Terms of their Environmental Impact on Biodiversity (CALM 1999)
Appendix F:	Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces (adapted from Keighery 1994, for Pilbara Biodiversity Survey)
Appendix G:	List of Vascular Plant Taxa Omitted From the Data Matrix for Analysis
Appendix H:	Species Area Curves and Adequacy of Survey Measure Values
Appendix I:	Location Coordinates of Malleefowl Nest Mounds Recorded in the Study Area by Woodman Environmental, 2013"
Appendix J:	Vascular Plant Taxa Recorded in the Study Area, 2013
Appendix K:	Raw Data Recorded within Quadrats, 2013
Appendix L:	Location Details of Conservation Significant Flora and Introduced Flora Recorded within the Study Area and Surrounds, 2013
Appendix M:	Summary Dendrogram of Relationships Between Quadrats from the Floristic Analysis
Appendix N:	Quadrats Moved within the Analysis Output
Appendix O:	Vascular Plant Taxa Recorded within Each Vegetation Unit within the Study Area and Adjacent Mapped Area
Appendix P:	Summary Matrix of Taxon Presence Within Quadrats from the Floristic Analysis
Appendix Q:	Significant Indicator Taxa of the 16-Group Classification of Vegetation Units
Appendix R:	Detailed Descriptions of Vegetation Units in the Study Area and Adjacent Mapped Area

EXECUTIVE SUMMARY"

Erkhu'Cuk'Rcekhe'Kqp'Qtg'Rv'Nf "Erkhu'ku'c'ur r ngt'qh'Y guvtp'CWutcrkcp'ktqp'qtg.'y kj " o kpg" qr gtcvqpu" kp" vj g" [ ki ctp" tgi kqp0 " Erkhu" ku" kpxguki cvkpi " gzc cpukap" qh' ku" [ ki ctp" Qr gtcvqpu" vq" kpenmf g" c" pgy " o kpg" cv" vj g" Mqqn' cpqddkpi " Tcpi g. "mcevgf "pget" vj g" vqy p" qh' Mqqn' cpqddkpi ." cr r tqzko cvgn' "72"no " pqt vj " qh" Uqwj gtp" Etquu" \*Hki wtg" 3+" kp" vj g" Uj ktg" qh' [ ki ctp0""

Kp" 4235." Erkhu" eqo o kukqpgf " Y qaf o cp" Gpxkqpo gpvni' Eqpuwvki " Rv' " Nf " \*Y qaf o cp" Gpxkqpo gpvni" vq" eqpf wev' c" hqt c" cpf " xgi gvcvqp" uwxg{ " qh" vj g" Uqwj gtp" Mqqn' cpqddkpi " Tcpi g" Uwf { " Ctgc" \*Uwf { " Ctgcø" kp" ceeqtf cpeg' y kj " vj g" Y guvtp" CWutcrkcp" Gpxkqpo gpvni' Rtqvevqap" Cwj qt kv' " \*GRC+I vkf cpeg" Ucvgo gpv' P q0'73" \*GRC" 4226+" hqt " vgtt guvki cni' hqt c" cpf " xgi gvcvqp" uwxg{ u" cpf " GRC" Rqukkap" Ucvgo gpv' P q0'5" \*GRC" 4224+" hqt " vgtt guvki cni' dkqmi keci' uwxg{ u0' "

Vj g' hqt c" cpf " xgi gvcvqp" uwxg{ " qh" vj g" Uwf { " Ctgc" y cu' eqpf wevgf " qxgt " 4" xkuku" kp" y kpgt" cpf " ur tkpi " qh" 4235" \*Cwi wvUgr vgo dgt+ " dgkpi " y kj kp" vj g" qr vko cni' vko g' f wtkpi " y j kej " vj g' o clqtkv{ " qh' vzc" kp" vj g' Eqqni ctf kg" Dkqti gi kqp" ctg" eqpukf gtgf " o quv' rkngn{ " vq" hmqy gt0" C" vqven' qh' 3; ; " 42" z" 42" o " pqp/ r gto cpgpv' hqt c" uwxg{ " s wcf tcu" y gtg" guvdrkuj gf =375" kp" vj g" Uwf { " Ctgc. " cpf " 68" s wcf tcu" y kj kp" cp" cf lcegpv' ctgc" vj cv' j cf " r tglxkwun{ " dggp" o cr r gf " \*Y guvtp" Dqvcpkeci' 422; +0" Vj g' s wcf tcv' f cv' y cu' uvcvkuvkecm{ " cpcn{ ugf " vq" f gvto kpg' vj g' xgi gvcvqp" vpkv0""

Vcti gvfg "ugctej kpi " hqt " eqpugt xcvkqp" uki pkhecpv' hqt c" vzc" y cu' cnuq" wpf gt vcnpg" kp" vj g" Uwf { " Ctgc0' " Vj ku" ugctej kpi " dvkf u" wr qp" rtglxkwu" uwxg{ u" wpf gt vcnpg" cv' vj g" Uqwj gtp" Mqqn' cpqddkpi " Tcpi g" \*Y guvtp" Dqvcpkeci' 4229/422: " wpr wdrikuj gf " f cv= " Y guvtp" Dqvcpkeci' 422; =0 ckc" 4235+ " y kj " tguwv" qh" vj g" r tglxkwu" uwxg{ u" kpeqtr qtcvgf " kp" vj g" f kvtkdwkqp" cpf " cdwvf cpeg" guvko cvgu' hqt " eqpugt xcvkqp" uki pkhecpv' vzc" y kj kp" vj ku' tr qt v0' "

C" vqven' qh' 46: " f kuetgvg" xcuewrt " hqt c" vzc. " 3" npqy p" j { dtkf " cpf " 3" r wcvkxg" j { dtkf " y gtg" tgeqtf gf " y kj kp" vj g" Uwf { " Ctgc0" Vj gug' vzc" tgr tguv' 76" hco kkgu" cpf " 359" i gpgtc0" Vj g' o quv' y gm' tgr tguv' pvgf " hco kkgu" y gtg" Hdcegcg" \*55" vzc" cpf " 3" npqy p" j { dtkf + " Cuvgtcegcg" \*4; " vzc+ " O { tvegcg" \*3; " vzc+ " Ej gpqr qf kegcg" \*39" vzc" cpf " 3" r wcvkxg" j { dtkf + " cpf " Uetqr j wvktcegcg" \*35" vzc+0' "

Qpg' Tctg' Hqt c" vczq" rkvgf " wpf gt" vj g" Y kf rkhg' Eqpugt xcvkqp" Cev' 3; 72" \*Y C+ " ku' tgeqtf gf " hqo " vj g" Uwf { " Ctgc. " dgkpi " Vgt cvj gec" gt wdguegpu0""

P q" hqt c" vzc" rkvgf " cu" Vj tgevgpgf " Ur gekgu" qh' hqt c" wpf gt" vj g" Gpxkqpo gpv' Rt qvevqap" cpf " Dkqf kxgt ukv{ 'Eqpugt xcvkqp' Cev' 3; ; ; \*Eøj + \*GRDE' Cev' y gtg' tgeqtf gf " hqo " vj g" Uwf { " Ctgc0' "

P kpg' hqt c" vzc" ercuukhgf " d{ " vj g" F gr ctwo gpv' qh' Rctm" cpf " Y kf rkhg' \*F Rcy + " cu" : Rtkqtkv{ ø' cpf " 5" r qv' pvcv{ " wpf guetkdgf " vzc" y gtg' tgeqtf gf " kp" vj g" Uwf { " Ctgc. " dgkpi < "

- Dg{ gk c' t quv' gvc " \*R3 ="
- Ceceke 'f kuqpc 'xct0' kpf qnqt kc " \*R5 ="
- Cwut qukr c' drc enkk " \*R5 ="
- J kddgt vkc 'igr kf qecnz 'uvdur 0' wdgte wrc " \*R5 ="
- Ngr kf qur gto c' hgt t keqrc " \*R5 ="
- Ur ct vqj co pgn " ur 0J grgc "( 'Cwtqtc' Tcpi g" \*RI 0Cto utqpi " 377/32; + \*R5 ="
- Uv' pcpvj go wo ' pgy dgf k' \*R5 ="
- Uv' rj grkc " ur 0Dwv' kpej " \*O 0J kurqr " 5796+ \*R5 ="

- Dcpmk'ctdqtgc \*R6="
- Cecekc'ch0'cewtkc \*r qvgpvkcm' 'wpf guetkdgf ="
- Cecekc'ch0'kpv'kecvc \*r qvgpvkcm' 'wpf guetkdgf ="cpf "
- Ngr kf qur gto c'ch0'gttkewo gp \*r qvgpvkcm' 'wpf guetkdgf ="

C'hwvj gt'FRcY /ercuukhgf "Rtktkv'0'hmte'vzqp."Ngr kf lwo 'i gpkuzkf gu"R5+"y cu'tgeqtf gf 'lwuv' qwukf g'yj g'Uwf { "Ctgc0"Vj ku'ur gelgu'y cu'kf gpvkkgf "d{ "j gtdctkwo "kf gpvkhecvkq"wpf gvcngp' uwdugs wgpv'vq'yj g'hgrf "uwxg{."cpf "y'j gthqtg"ur gekke'hgrf "ugctej kpi "hqt'yj ku'ur gelgu'kp'yj g' Uwf { "Ctgc"y cu'pqv'wpf gvcngp0"J qy gxgt."k'y cu'pqv'pqvgf "gnugy j g'g'kp'yj g'Uwf { "Ctgc" f gur kg'ugctej gu'hqt'qy'j g'eqpugtxcvkp'uki pkkhecpv'vzc'dgkpi "eqpf wevgf "kp'uko krc'tj cdkcv' f vtkpi "y'j ku'uwxg{."cpf "f vtkpi "r tglxkwu'uwxg{u0"K'ku'yj gthqtg'eqpukf gtgf "y'j cv'yj ku'ur gelgu'ku' wprkngn'vq'qeew'y kj kp'yj g'Uwf { "Ctgc."qpn'qeewtkpi "dg{qpf "y'j g'Uwf { "Ctgc0"

Cf fklkqpcmf."y'j g'FRcY /ercuukhgf "Rtktkv' "Hqt'vzqp" I t gxlkngc "gt gevkqdc \*R6+"y j lej "j cu' r tglxkwun' "dggp'tgeqtf gf "kp'yj g'Uwf { "Ctgc"Y guvgtp'Dqvcpkrcn'4229/422: "wpr wdrkuj gf "f cvc+" eqwf "pqv'dg"tgmecv'f gur kg'hgrf "ugctej gu'vcti gvkpi "y'j ku'vzqp'cv'yj g'r tglxkwun' "tgeqtf gf " mqcvkq0"K'ku'eqpukf gtgf "o quv'rkngn' "y'j cv'yj g'r tglxkwun' "tgeqtf gf "mqcvkq'ku'gttqpgqwu."gk'j gt" d{ "y c{ "qh"tgeqtf kpi "qt" kpr w'qh" kpeqtgcv' I RU" eq/ qtf kpcv'gu." qt" o kuf gpvkhecvkq' qh' y'j g' uwr gthekcm' "uko krc't I t gxlkngc "/ { i qnqdc."c"vzqp"pqv'qh'eqpugtxcvkp'uki pkkhecpv' y'j cv'y cu' r tgu'gpv'cv'yj g'r tglxkwun' "tgeqtf gf "mqcvkq0"

Vy grkg'kpv'qf wegf "hmte'vzc"y g'tgeqtf gf "kp'yj g'Uwf { "Ctgc="pqp'g'qh'yj g'kpv'qf wegf "hmte' vzc'hqwpf "y kj kp'qt'cf lcegpv'vq'yj g'Uwf { "Ctgc"ctg'F gerctgf "Rguu'wpf gt 'y'j g'Dkugewt kf "cpf " Ci tlewnwt g'O cpci go gpv'Cev'4229" \*DCO "Cev" \*Y C+ \*F gr ctvo gpv'qh'Ci tlewnwt g'cpf "Hqpf " 4235+qt'rkuv'f'cu'Y ggf u'qh'P cvkqpcn'Uki pkkhecpv' \*Cwutcrkcp'Y ggf u'Eqo o kwgg'4234+0"

C"v'v'qh'38"xgi gvcvkp'wpku'y g'tg'o cr r gf "dcugf "wr qp"uvcvkrcn'cpcn'uku'qh'f cv"eqmgevgf " htqo " 3; ; " xgi gvcvkp' s wcf tcw0 " Vj g" f kxgtukv' "qh' xgi gvcvkp' wpku' kp' yj g' Uwf { " Ctgc" ku' eqpukf gtgf "vq'dg'tgrv'kxgn' "j ki j ."cu'yj g'tg'ku'c'tgrv'kxgn' "j ki j "xctk'v' "qh'j cdkcv'v' r gu'qy kpi "vq" yj g'xctk'f "vqr qi tcr j { "kp'yj g'Uwf { "Ctgc0"Xgi gvcvkp'wpku'6." .; .32.'33.'34.'35.'cpf "38'qeewt" qp'yj g'tkf i gu'qh'yj g'Uqwj gtp'Mqqn'cpqddkpi "Tcpi g'kugrh'cp'kqpuv'qpg'tcpi g'yj cv'ku'tgrv'kxgn' " kuqrcv'f ."dgkpi "uwtqwpf gf "d{ "ctgcu'qh'f hhtkpi "i gqmi { "cpf "vqr qi tcr j { 0"Vj gug"xgi gvcvkp' wpku'j cxg'yj g'r qvgpvkcn'vq'dg'tgutkevgf "vq'yj g'ctgc'qh'yj g'Uqwj gtp'Mqqn'cpqddkpi "Tcpi g0"

Vj g'eqpf kkp'qh'yj g'o clqtkv' "qh'yj g'xgi gvcvkp'kp'yj g'Uwf { "Ctgc"y cu'tcpngf "cu":Gzegmpv' kpf kecvkpi "c'r tkv'kpg'eqpf kkp'y kj "pq'uki pu'qh'uki pkkhecpv'f kuwtdcpeg"cpf "y ggf "vzc" \*h'cp { + " pqv'eqpukf gtgf "ugt'kwu' gpxkqpo gpcn'y ggf u'cpf " r tgu'gpv'cv'my "rgxgn0"Vj g'qpn' "ctgcu'qh' xgi gvcvkp' "pqv' eqpukf gtgf " r tkv'kpg" y g'tg' ugxg'cni' uo cni' ctgcu' yj cv' j cf " dggp' f kuwtdgf " d{ " r tglxkwu'o klpki "cevkxkku0"

Pq"Vj tgcvgpgf "Geqmi kecn'Eqo o wpkku" \*VGEu+rkuv'f'wpf gt "y'j g'GRDE "Cev."qt'ercuukhgf "d{ " FRcY ."y g'tgeqtf gf "cu'eqkpek' kpi "y kj "y'j g'Uwf { "Ctgc0""

Vj g' FRcY /ercuukhgf " Rtktkv' " Geqmi kecn' Eqo o wpkv' " \*RGE+" 0Mqqn'cpqddkpi " xgi gvcvkp' eqo r ngzgu" \*dcpf gf "kqpuv'qpg'hqto cvkq+" \*Rtktkv' "3+0" eqkpek' gu'y kj "y'j g'Uwf { "Ctgc0"Vj g' dqwpf ct { "qh'yj ku'RGE"i gpgtcm' "eqttgur qpf u'y kj "y'j g'dqwpf ct { "qh'yj g'Mqqn'cpqddkpi "Tcpi g' rcpf hqto . "tcvj gt'yj cp'eqkpek' kpi "y kj "y'j g'xgi gvcvkp'wpku'r tgu'gpv'0"Vj g'RGE"qeewr kgu'cp'ctgc' qh'er r tqzko cvgn' "4.722"j c"eqxgtkpi "dqy "y'j g'Uqwj gtp"cpf "P qt'yj gtp'Mqqn'cpqddkpi "Tcpi gu." qh'yj lej "cr r tqzko cvgn' "46" "eqkpek' gu'y kj "y'j g'Uwf { "Ctgc0""

# 1. INTRODUCTION

## 1.1 PROJECT AND STUDY DESCRIPTION

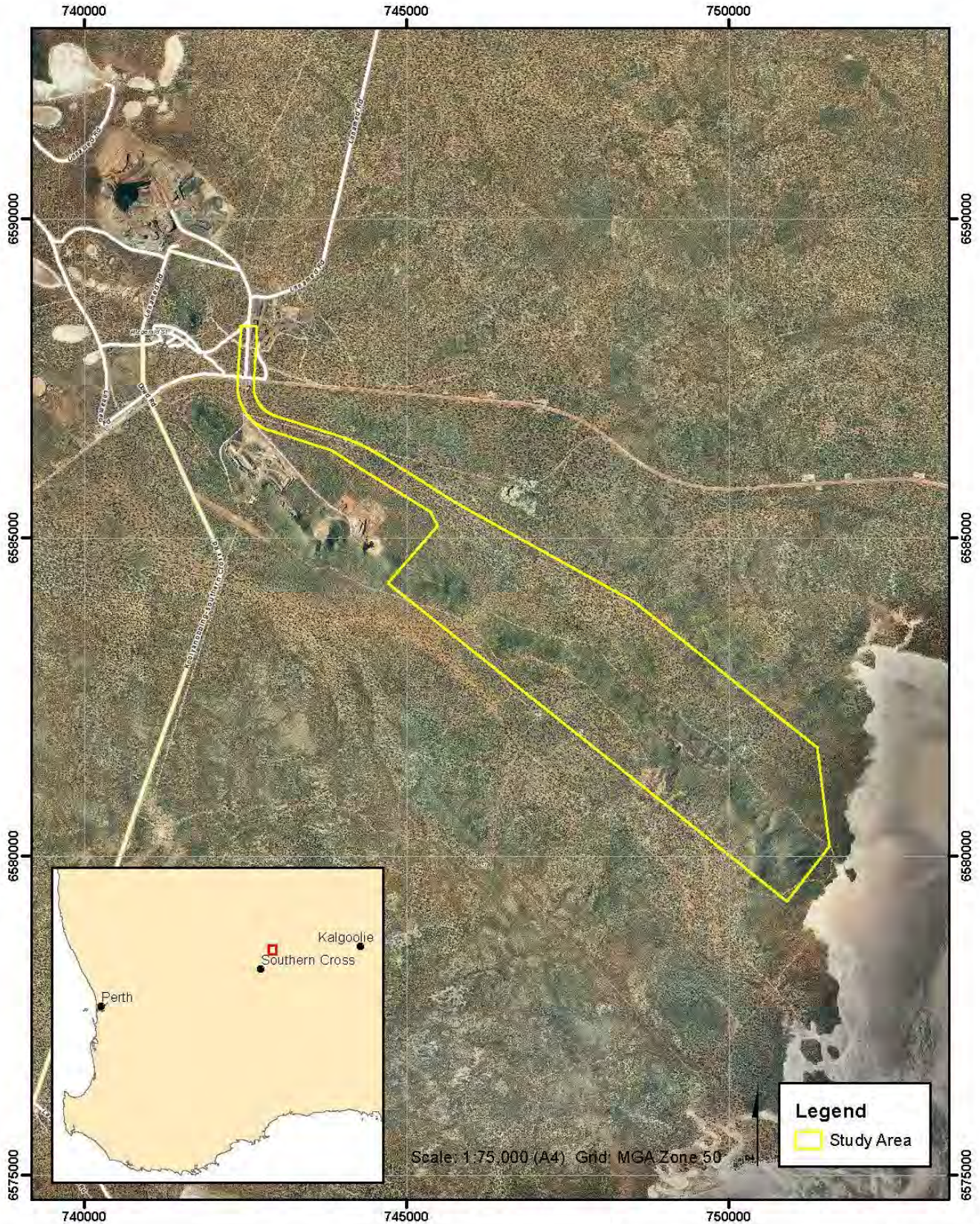
Erkhu'Cuk'Rcekhe'Kqp'Qtg'Rv'Nf "Erkhu'ku'c'uw r ngt'qh'Y guvtp'CWwterkcp'kqp'qtg.'y kj " o kpg" qr gtevkqpu" kp" vj g" [ ki ctp" Tgi kpp0' " O kkpki " qr gtevkqpu" ctg" ewttgpw' " wpf gtwcngp" cv' Mqqn'cpqddkpi 'Tcpi g.'O v'Lcenuqp'Tcpi g'cpf 'vj g'Y kpf ctkpi 'Tcpi g0'"


Erkhu'ku' kpxguki cvkpi " gzc'pukqp" qh'ku" [ ki ctp" qr gtevkqpu" vq" kpenmf g" c" pgy " o kpg" cv' vj g" Mqqn'cpqddkpi 'Tcpi g.'mexgf "pget"vj g"vy p'qh'Mqqn'cpqddkpi ."cr r tqzko cvgn'72'no "pqt vj " qh'Uqwj gtp'Etquu'Hki wtg'3+'kp'vj g'Uj kg'qh' [ ki ctp0'"

Cu'r ctv'qh'kpxguki cvkqpu'ht'c"pgy " o kpg" cv'vj g" Mqqn'cpqddkpi 'Tcpi g.'Erkhu'eqo o kkkppgf " Y qqf o cp"Gpxkqpo gpwn'Eqpuwnkpi "Rv' "Nf "Y qqf o cp"Gpxkqpo gpwn'vq"eqpf wev'c"htc" cpf 'xgi gvc'kqp'uwtxg' { "qh'vj g'Uqwj gtp'Mqqn'cpqddkpi 'Tcpi g'Uwf { 'Ctgc'\*:Uwf { 'Ctgcø0"Vj g' Uwf { 'Ctgc'ku'uj qy p'qp'Hki wtg'30'

"  
"





 <p><b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> Southern Koolyanobbing Range - Study Area Location</p> <p>This map should only be used in conjunction with WEC report CNR13-02-01...</p>	Author: David Coultas	<b>Figure</b>  <b>1</b>
	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f01.mxd	
	Revision: A - December 2013	



Vj g"hmte"cpf "xgi gvcvqp"uwxg{"qh'j g"Uwf {"Ctgc"y cu"wpf gtvcngp"cv'Ngxgn'4"cu"fgkpgf "d{"  
vj g"Gpxkqpo gpwnRtqvgvqp"Cwj qtkv{au}\*GRC+I wkf cpeg"Ucvgo gpv"P q073"\*GRC"4226+0"C"  
Ngxgn'4"uwxg{"ku"fgkpgf "cu"cdcem tqwpf "tgugctej lf gumqr "uwf {"cpf "tgeqppckuucpeg"uwxg{."  
hqmy gf "d{"c"fgkpgf "qt"eqo rtgj gpukxg"hgfr "uwxg{"qh'j g"Uwf {"Ctgc0"Vj ku'ngxgn'qh'uwxg{"  
y cu'fgvgo kpgf "vq"dg"vj g"cr r tqr tkvg'ngxgn'qh'uwxg{"hqt"vj g"Uwf {"Ctgc."chgt'tgxky "qh'Vcdng"  
4"qh'I wkf cpeg"Ucvgo gpv"P q0'73"\*GRC"4226+0"C" f gcvkpgf "hgfr "uwxg{"y cu"eqpukf gtgf "  
cr r tqr tkvg" \*cu" qrr qugf " vq" c" eqo rtgj gpukxg" uwxg{" i kxgp" vj g" r tgxkqu" hgfr " uwxg{"u"  
wpf gtvcngp" kp" vj g" Uqwj gtp" Mqqr'cpqddkpi " Tcpi g" ctgc" \*Y guvtp" Dqvcplecn' 4229/422: "  
wpr wdrukj gf "f cve=Y guvtp"Dqvcplecn'422; =O ckc'4235+0'  
"

Vj ku'tgr qtvr' tguvpu'vj g'tguvnu'qh'dqvj "vj g'f gumqr "cpf "hgfr "uwxg{"eqo r qpwp'qh'vj g'Ngxgn'  
4"uwxg{0"Vj g'tguvnu'qh'vj g'dcem tqwpf "tgugctej lf gumqr "uwf {. "y j kxj "kpenmf g" c"tgxky "qh"  
mpqy p"kphtqo cvkqp"tgrxcpv'vq"vj g"Uwf {"Ctgc"vj tqwi j "cm'uqwtegu'qh'rkgtcwtg"cxckcdng."ctg"  
rtgugpvf "kp"Ugevqp"40" Vj g'tguvnu'qh'vj g'f gcvkpgf "hgfr "uwxg{"qh'j g"Uwf {"Ctgc"ctg"  
rtgugpvf "kp"Ugevqp"60'

1.2 AIMS AND TASKS

Vj g'cko "qh'j ku'hmte"cpf "xgi gvcvqp"uwxg{"y cu"vq"fgvgo kpg"vj g"hmte"cpf "xgi gvcvqp"xcnwgu"  
qh'j g"Uwf {"Ctgc0"Vj g'qxtcm'qdlgevkgu'qh'vj g'hmte"cpf "xgi gvcvqp"uwxg{"y gtg'vq"<  
"

- K gpvh{"cpf "tgeqtf "vj g'mecvqp'qh'hmte"vcz"\*pcvkg"cpf "kvtqf wegf +vj cv'qeev"y kj kp"  
vj g"Uwf {"Ctgc="
- K gpvh{"cpf "tgeqtf "vj g'mecvqp'qh'hmte"vcz"vj cv'qeev"y kj kp"vj g"Uwf {"Ctgc"vj cv'ctg"  
rkvgf "cu'qpg'qh'vj g'hqmy kpi "j gtgk"tghgtgf "vq"cu'eqpugtxcvqp"uki pkkcpv'vcz-<"
  - o Nkvgf "Vj tgevgpgf "Ur geku"wpf gt "vj g"Gpxkqpo gpv'Rt qvgvqp"cpf "Dkqf kxgt ulk"  
Eqpugtxcvqp'Cev'3; ; ; \*Eoj +\*GRDE'Cev="
  - o Tctg'Hmte"wpf gt "vj g"Y kf rkg'Eqpugtxcvqp'Cev'3; 72\*Y C+="cpf "
  - o Rtkqtkv{"Hmte"vcz"cu'encukhgf "d{"vj g"Y guvtp"Cwutckcp"Fr ctwo gpv'qh'Rctm"  
cpf "Y kf rkg"\*F Rcy +0'
- K gpvh{"cpf "tgeqtf "vj g'mecvqp"qh'cm'xgi gvcvqp"wpku"vj cv'qeev"y kj kp"vj g"Uwf {"  
Ctgc="
- K gpvh{"cpf "tgeqtf "vj g'mecvqp"qh'cm'xgi gvcvqp"wpku"vj cv'qeev"y kj kp"vj g"Uwf {"  
Ctgc"vj cv'ctg" rkvgf "cu'qpg"qh'vj g'hqmy kpi "j gtgk"tghgtgf "vq"cu'eqpugtxcvqp"  
uki pkkcpv'xgi gvcvqp-<"
  - o Vj tgevgpgf "Geqmi kcn'Eqo o wkv{"\*VGE+"wpf gt "vj g"GRDE'Cev="
  - o VGE"cu'encukhgf "d{"F Rcy "cpf "gpf qtugf "d{"vj g"Y C" O kpkvgf "hqt"vj g"  
Gpxkqpo gpv="cpf "
  - o -Rtkqtkv{"Geqmi kcn'Eqo o wkv{"\*RGE+"cu'encukhgf "d{"F Rcy 0'
- Vcng'rj qvqi tcr j u'qh'eqpugtxcvqp"uki pkkcpv'vcz"cpf "xgi gvcvqp"wpku'kf gpvkhgf 0'  
"

Vj g'vcum'wpf gtvcngp"vq"o ggv'vj ku'cko "hqt"vj g'hmte"cpf "xgi gvcvqp"uwxg{"y gtg'vq"<  
"

- Tgxky "cm'gzkupi "rkgtcwtg"tgrvki "vq"hmte."xgi gvcvqp"cpf "qvj gt"gpvcpo gpwn'  
hcvqtu'tgrxcpv'vq"vj g"Uwf {"Ctgc."kpenmf kpi "tgrxcpv'vcv"cpf "hgf gtcn'f cvdcugu="
- Guvcdrukj "hmte"uwxg{"s wcf tcw"vj tqwi j qw'cm'f kuegtpldng"xgi gvcvqp"wpku"y kj kp"cm'  
ctgeu'qh'tgo pcpv'xgi gvcvqp"kp"vj g"Uwf {"Ctgc="
- Wpf gtvcng"ucvkn'ecn'pcn'uku"vq"fgkpg"xgi gvcvqp"wpku"y kj kp"vj g"Uwf {"Ctgc="
- O cr "vj g'f kvtkdwkqp"cpf "f kveuu"vj g'eqo r qukqp'qh'xgi gvcvqp"wpku"y kj kp"vj g"Uwf {"  
Ctgc"cpf "cf lcegpv'ctgc"wkpi "c"eqo dkpcvqp"qh'cgtkn'rj qvqi tcr j "kpvtr tgvkqp"cpf "  
hgfr "qdugtxcvqp="



- O cr "cpf "f kweuu'vj g"eqpf kkkp'qh'vj g'xgi gvcvkp'qh'vj g'Uwf { "Ctgc="
- Eqpf wev'uw r ngo gpvt { "ugctej gu"ht' "hqt"ur gekgu."kpenf kpi "Vj tgcvgpgf "Ur gekgu"qh' hqt" r tqvgevgf "wpf gt" vj g"GRDE" Cev."Tctg" Hqt" vzc" f gerctgf "wpf gt" vj g" Y kf rkg" Eqpugtxcvkp" Cev"3; 72" \*Y C+ "F RcY /emuu'kkgf "Rtkqtk{ "Hqt" vzc." cpf "kvtqf wegf " vzc" vj cv'o c { "dg'r t gupv'y kj kp'vj g'Uwf { "Ctgc="cpf "
- Rtqxf k'g" c" tgr qtv'kpenf kpi "o cr u'f gckkpi "xgi gvcvkp"wpku."eqpugtxcvkp"uki pkkcepv' vzc."kvtqf wegf "vzc."cpf "vj g"eqpf kkkp'qh'tgo pcpv'xgi gvcvkp'y kj kp'vj g'Uwf { "Ctgc0"

## 2. BACKGROUND

### 2.1 STUDY AREA

Vj g"Uwf { "Ctgc"ku'uj qy p"qp "Hki wtg"3."cpf "eqxgtu"cr r tqzko cvgn{ "3.936"j gevctgu"\*j c+0"Vj g" o clqtk{ "qh" vj g" Uwf { " Ctgc" eqpuku" qh" tgo pcpv' xgi gvcvkp=" j qy gxgt" pwo gtqwu" ergctgf " j kvqtkecn'gZR mtcvkp'tcemi'cpf "f tknr' cf u'qeewt 'y kj kp'vj g'Uwf { "Ctgc0"

Vj g"Uwf { "Ctgc"ku"mcevgf "qp" vj g"Dtqpvk"Rcuqten' Ngcu." cpf "cdwu" vj g" Mqqr'cpqddkpi " vqy pukg"kp'vj g"pqtvj /y guvtp"eqtpgt0"Vj g"Uwf { "Ctgc"ku"mcevgf "qp" gZR mtcvkp"vpggo gpw" G99B226/Kcpf "o kpkpi "mgcu"O 991; ; /K'O 991829/K'O 991; ; 2/Kcpf "O 991833/K'wpf gt"vj g" O kpkpi "Cev"3; 9: " \*Y C+0"

### 2.2 CLIMATE

Vj g'erko cvg'qh'vj g'tgi kpp'y kj kp'y j lej "vj g"Uwf { "Ctgc"ku"mcevgf "ku'emuu'kkgf "cu'ugo k'f guvt' O gf kgttpep."y kj "cp"ppwcn'cxgtci g'qh'nguu'vj cp"522"o o ."cpf "; /33"ft { "o qp'v u'r gt" { gct" \*y j gtg'cxgtci g'r tgekr kcvkp"ku"kp'f gs wcv'ht' r ncpv'i tqy vj + "Dgctf "3; ; 2+0"Vj g"o clqtk{ "qh" tclphcm'dgpghekn'ht' r ncpv'i tqy vj "ku'tgekgf "kp'y kvt'htqo "eqf "htqpw'r cu'kpi "vj tqwi j "vj g" tgi kpp."j qy gxgt"uwo o gt" vj wpf gtuxto u'i gpgtcm{ "eqp'kdwg" c"uki pkkcepv'r tqr qv'kp'qh'vj g" cxgtci g'ppwcn'tclphcm'cnq" \*Dgctf "3; ; 2+0"

Hki wtg"4" f kur m { u'vj g"o gcp"o qp'v n{ "tclphcm" \*o o + "gZR gtlppegf "cv'Mqqr'cpqddkpi "vqy pukg." cf lcegpv'vq" vj g"Uwf { "Ctgc0" Mqqr'cpqddkpi "vqy pukg" gZR gtlppegu'tgr'v'gn{ "gttcv"uwo o gt" cpf "y kvt' tclpu."y kj "cp"cxgtci g'qh"4: 6"o o "qh'tclphcm'r gt" { gct" \*Dwtgcw'qh'O gvgqtqmi { " 4235c+." cpf "tclphcm" j ki j u"kp" Lcpwt { " cpf " Lwn{ 0 " 4235" tclphcm' f cv" htqo " Mqqr'cpqddkpi " vqy pukg'ku'cnq" f kur m { gf "ugr ctevgn{ "qp"Hki wtg"4" \*Dwtgcw'qh'O gvgqtqmi { "4235c+0"

Hki wtg"4" cnq" f kur m { u'vj g"o gcp"o qp'v n{ "o czko wo "cpf "o kpk wo "vgo r gtcwtg" \*f gi tggu" Egnkuu+" cv' Uqwj gtp" Etqu" Ckthgrf . " vj g"pgetgu"o gvgqtqmi kecn'ucvkp" vq" vj g"Uwf { "Ctgc" \*cr r tqzko cvgn{ "72"no "uqwj +vj cv'tgeqt' u'vgo r gtcwtg" f cv" \*Dwtgcw'qh'O gvgqtqmi { "4235d+0" Vj g"j ki j guv'o qp'v n{ "o gcp"o czko wo "cpf "o kpk wo "vgo r gtcwtg"ku" gZR gtlppegf "kp" Lcpwt { " \*uwo o gt+."y kj "vj g'my guv'o qp'v n{ "o gcp"o czko wo "cpf "o kpk wo "vgo r gtcwtg" gZR gtlppegf "kp" Lwn{ " \*y kvt' +0" " 4235" Vgo r gtcwtg" f cv" htqo " Uqwj gtp" Etqu" Ckthgrf " ku' cnq" f kur m { gf " ugr ctevgn{ "qp"Hki wtg"4" \*Dwtgcw'qh'O gvgqtqmi { "4235d+0"

Cu'kf gp'kkgf "d { "Hki wtg"4."vj g"tclphcm'cpf "vgo r gtcwtg" f wtkpi "vj g" hgrf "uwxg{ "r gtkf "y cu" tgr'v'gn{ "eqpuku'gpv'y kj "vj g" npi /vgo "cxgtci gu"0"Vj g"tclphcm'kp'vj g"5"o qp'v u'r tgegf kpi "vj g" hgrf "uwxg{ "y cu" cr r tqzko cvgn{ "62" "dgmy "vj g" npi /vgo "cxgtci g."j qy gxgt" vj ku' hmqy gf " cdq'g'cxgtci g'tclphcm'kp'vj g" gct'ngt' r ctu'qh'vj g" { gct0"

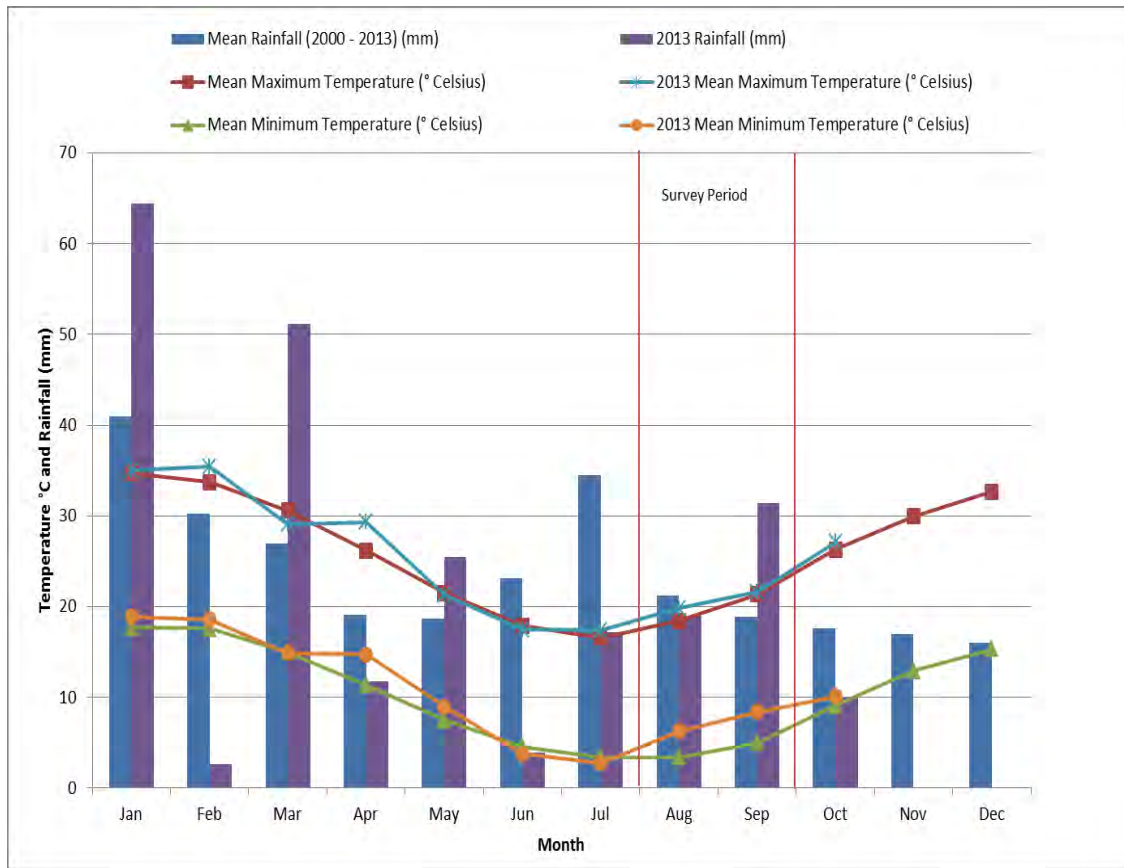


Figure 2: Rainfall (mm) for Koolyanobbing Townsite (Bureau of Meteorology 2013a) and Maximum and Minimum Temperatures (°Celsius) for Southern Cross Airfield (Bureau of Meteorology 2013b)

### 2.3 LANDFORMS, GEOLOGY AND SOILS

Vj g' Uwf { " Ctgc" ku" mqcvgf " y kj kp" vj g' Uqwj gtp" Etquu" \*EQQ24+" kvgtko " Dkqi gqi tcr j ke" Tgi kqpcrkucvkqp" qh" Cwuxcrk " \*KOTC+" uwdtgi kqp." y kj kp" vj g' dtqcf gt" Eqqni ctf kg" KOTC" Dkqtgi kqp" \*Eqo o qpy gcnj "qh" Cwuxcrk" 4234+0" N{ kpi "qxgt" vj g' [ ki ctp" dmjem" i gqmi kcmf { " vj ku' uwdtgi kqp" hgcwtgu" Ctej cgep" i tepkg. "y kj " kphqr' gf " dgnu" qh' o gvo qtr j ke" ugf ko gpvt { " cpf " ki pgqwu" tqem" \*Dgctf " 3; ; 2+0" Vj g' uwdtgi kqp" ku" i gqmi kcmf { " f kxgtug. " y kj " vj g' qeewt gpeg" qh" o clqt " i tggpuvpg" dgnu" y j kej " r tqxkf g" c" j kmf { " vqr qi tcr j { " cpf " j gcxkgt. " ngu" f gr ngv'f " uqku" \*Dgctf " 3; ; 2=Eqy cp" gv'cr/04223+0" Dtqcf " xcngf { u" cpf " r rckpu" qeewt" dgwy ggp" vj g' dcpf u" qh" i tggpuvpg" j kmu. " y kj " c" pwo dgt" qh' rcti g' ucn' h' r' w' cv' vj g' ny g' v' r' q' kw' qh' vj g' xcngf { u" Dgf u" qh" dcpf gf " kqpuvpg" qeewt" ur qtcf kcmf { " y kj kp" vj g' i tggpuvpg" dgnu. " cpf " hqto " j ki j " cdtw v' tkf i gu" tkupi " eqpur kevqun" " Itqo " uwtqwpf kpi " r rckpu" \*Dgctf " 3; ; 2=Eqy cp" gv'cr/04223+0" Qpg" uwej " t'cpi g. " vj g' Mqqr' cpqddkpi " Tcpi g. " ku" r' ctv' " mqcvgf " y kj kp" vj g' Uwf { " Ctgc0" Qv' gt" w' r' gt" ngxgnu" kp" vj g' r' pf' uecr g" ctg" vj g' gtqf gf " tgo pcpw' qh' c" r' vgtk' k' f' w' ketwuv. " { kgr' kpi " { gmny " ucpf r rckpu. " i t'cxgmf { " ucpf r rckpu" cpf " r' vgtk' g" dtgcny c { u" Vj g' r' tkpek' cr' uqku" kp" vj g' uwdtgi kqp" ctg" dtqy p" ecrctgqu" gct vj u. " y kj " cmwxknu" uqku" kp" vj g' xcngf { u. " ucrkpg" uqku" cuuqekv'f " y kj " ucn' r' ngu. " cpf " j gcxkgt" uqku" qp" i tggpuvpg" cpf " dcpf gf " kqpuvpg" j kmu" \*Dgctf " 3; ; 2=Eqy cp" gv'cr/04223+0"

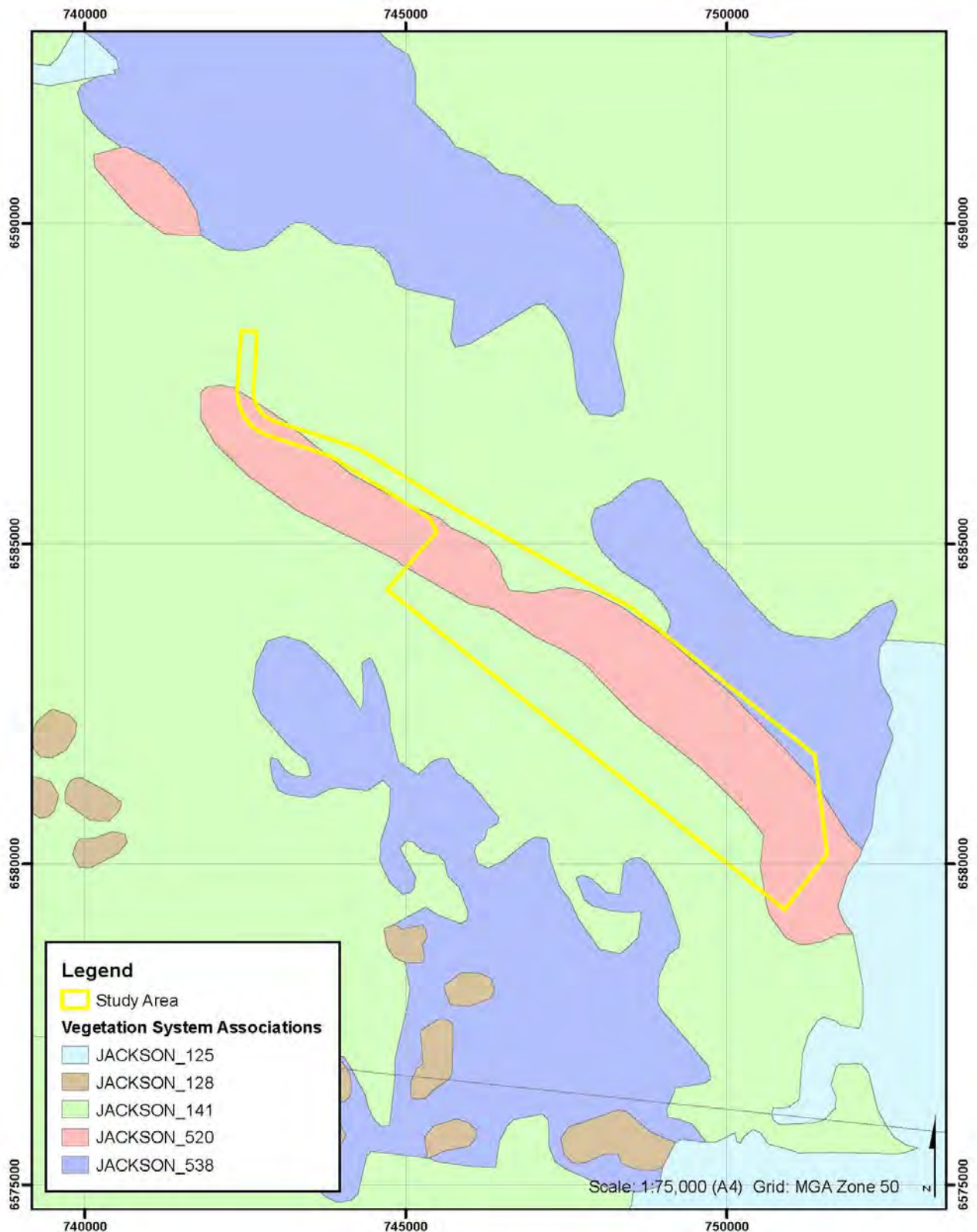
### 2.4 REGIONAL VEGETATION


Vj g' Uqwj gtp" Etquu" KOTC" uwdtgi kqp" ku" f qo kpcvgf " d { " f kxgtug" gwecnr v' y q' qf r' pf u. " y j kej " qeewt" ctqwpf " ucn' r' ngu. " qp" i tggpuvpg" j kmu. " qp" xcngf { " cmwxknu" cpf " qp" dtqcf " r rckpu" qh" ecrctgqu" gct vj u" Vj g' o qu' eqo o qp" ur gelgu" ctg" Gwecnr' r' wu" ucno qpqr j n' kc. " GO' uc' mdt ku. " GO'

vt cpueqpvkpgpwrku'cpf "G0'iqpi keqt plu" \*Eqy cp "gv'cr04223+0" Uy ctf u'qh' Dqt { c 'eqpiut kew 'qeewt " qp" i tcpkg' qwetqr u." y j lej " cnuq" uwr r qtv' uvcpf u' qh' "Ceceke" cewo kpcw" cpf " Gwecrf r wu" rjzqrj rdc0' "Ucn' rncg" uwthcegu" uwr r qtv' f y cth' uco r j ktg' uj twdrpcpf u0' " O cmgg" \*Gwecrf r wu" rgr vqr qf c." G0' rrcv' eqt { u" cpf " G0' ue { rj qecrf z+ " cpf " uetwd/ j gcy u" \*Cmjecumct kpc " eqt pkewrc w." Ecnkt ku' r' t gkuik " O grcrgwec " wpekpcw" cpf " Ceceke " dgcwxtgfkpc + " qeewt " qp" wr rcpf " ucpr r rcpu" cpf " r' vgtkle " dtgcney c { u0' " Dcpf gf " ktqpuvqpg' t' cpi gu' ctg' egpvt gu' hqt " gpf go le " hntc 'czc " \*Eqy cp " gv'cr04223+0" "

Vj g "Uqwj gtp "Etquu" KOTC " uwdtgi kqp " ku' mjecvfg " y kj kp " vj g " Eqqr ctf kg " Dqvcplecn' F kntlev " cu" f ghkpgf " d { " Dgctf " \*3; ; 2+0' " Vj g " xgi gvcvkp " qh" vj g " Eqqr ctf kg " Dqvcplecn' F kntlev' eqpuku " r tgf qo kpcpv' " qh" gwecrf r v' y qqf rcpf u0' " Vj g " f qo kpcpv' ur gekgu' kpenf g " Gwecrf r wu" ucw qpqrj rjk. " G0' rrcv' eqt { u" cpf " G0' xkxw " cpf " G0' eqttwi cxc0' " Wpf gtuvgtg { u" kp " vj g " y qqf rcpf u" ctg " gkj gt " uerqtqr j { m " y kj " O grcrgwec " r cwr gt khtc " f qo kpcvki . " qt " ucndwuj " qp " vj g " o qtg " ecrctgqu " uqku. " y kj " Ct krngz 'xgukectk 'cpf " CO'pwo o wrctk " f qo kpcvki 0' " Vj gtg' ctg' r cvej gu' qh" uj twd " ugr r g' cf lqkp " vj g " I tgc v' Xlevtk " F gugt v' kp " vj g " gcu v' y kj " uetwd/ j gcy " cpf " Cmjecumct kpc " vj lengvu " qp " ucpr r rcpu " \*Dgctf " 3; ; 2+0' " Kp " vj g " xlepkv { " qh" vj g " Uwf { " Ctgc. " dcpf gf " ktqpuvqpg" tkf i gu' ctg " eqxgtgf " y kj " f gpug " vj lengvu " kp " y j lej " Ceceke " swcftko cti kpgc " \*cpf " tgrcvkxgu " f qo kpcv. " cuuqekvfg " y kj " Cmjecumct kpc " cewkxcnk " cpf " CO'eco r gut ku0' " Qvj gt " tqem { " ctgcu" ectt { " vj lengvu " qh" Cmjecumct kpc " eco r gut ku" cpf " qvj gt " Cmjecumct kpc " ur gekgu. " Ecrqj co pwu" swcftk kfu' w' cpf " Ceceke " ur geku0' " O cmgg " qeewt " qp " j knur gu. " y kj " ur geku " uwej " cu' Gwecrf r wu" uj gcy kpc " cpf " Gwecrf r wu' rjzqrj rdc 'eqo o qp0' "

Uj gr j gtf "gv'cr0\*4224+" o cr r gf " cpf " f guetkdgf " xgi gvcvkp " u { ugo " cuuqekvqpu " kp " vj g " Uqwj gtp " Etquu " KOTC " uwdtgi kqp " tgrcvfg " vq " r j { ukqi pqo { . " wkrkupi " o cr r kpi " wpf gtvcngp " d { " Dgctf " \*3; 94+0' " Xgi gvcvkp " u { ugo " cuuqekvqpu " y gtg " f guetkdgf " cv' c " uecrg " qh" 3-472.2220' " Vj tgg " xgi gvcvkp " u { ugo " cuuqekvqpu " qeewt " kp " vj g " Uwf { " Ctgc. " dglpi " Icenuqpa363. " Icenuqpa742 " cpf " Icenuqpa75: . " cu' uwo o ctkugf " kp " Vcdrg " 3 " cpf " r t gugpvfg " qp " Hki wtg " 50 " Vcdrg " 3 " cnuq " r t gugpvu " vj g " ewtgpv' gzvgpv' qh" gcej " xgi gvcvkp " u { ugo " cuuqekvqpu " kp " tgrcvqpu " vq " vj g " r tg/ Gwtqr gcp " gzvgpv' \*I qxgtpo gpv' qh" Y gvgtp " C wutcrk " 4235c+0' " Cm " 5 " xgi gvcvkp " u { ugo " cuuqekvqpu " j cxg " dggp " uwdlgev' vq " qpn { " rko kgf " ercgtkpi . " y kj " rguu " vj cp " 7' " qh" gcej " xgi gvcvkp " u { ugo " cuuqekvqpu " j cxkpi " dggp " ercgtgf " ulpeg' Gwtqr gcp " ugwrgo gpv' \*Vcdrg " 3 = Hki wtg " 5+0' "



 <p><b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> <b>Southern Koolyanobbing Range</b> <b>Study Area and Vegetation System Associations</b></p> <p>woodmanenvironmentalconsulting</p> <p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>	Author: David Coultas	<p><b>Figure</b></p> <p><b>3</b></p>
	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f03.mxd	
	Revision: A - December 2013	

**Table 1: Extent of Vegetation System Associations within the Study Area (Government of Western Australia 2013a)**

Vegetation Association	Description	Current Extent (ha) in Western Australia	Percentage (%) of Pre-European Extent Remaining in Western Australia	Extent within Study Area (ha)
Icemuqpa363"	O gf kwo 'y qqf rpf =l qtni wo ." ucm qp'i wo '( 'i ko rgv"	865.3620"	; ; 0 "	9; 9"
Icemuqpa742"	Uj twdmpf u="Ceceke " swf tko cti kpgc "vj kengv"	43.4360"	; 98"	: 99"
Icemuqpa75: "	Uj twdmpf u="Ceceke " dtej {ucej {c'tetvd"	322.3620"	; ; 0"	62"

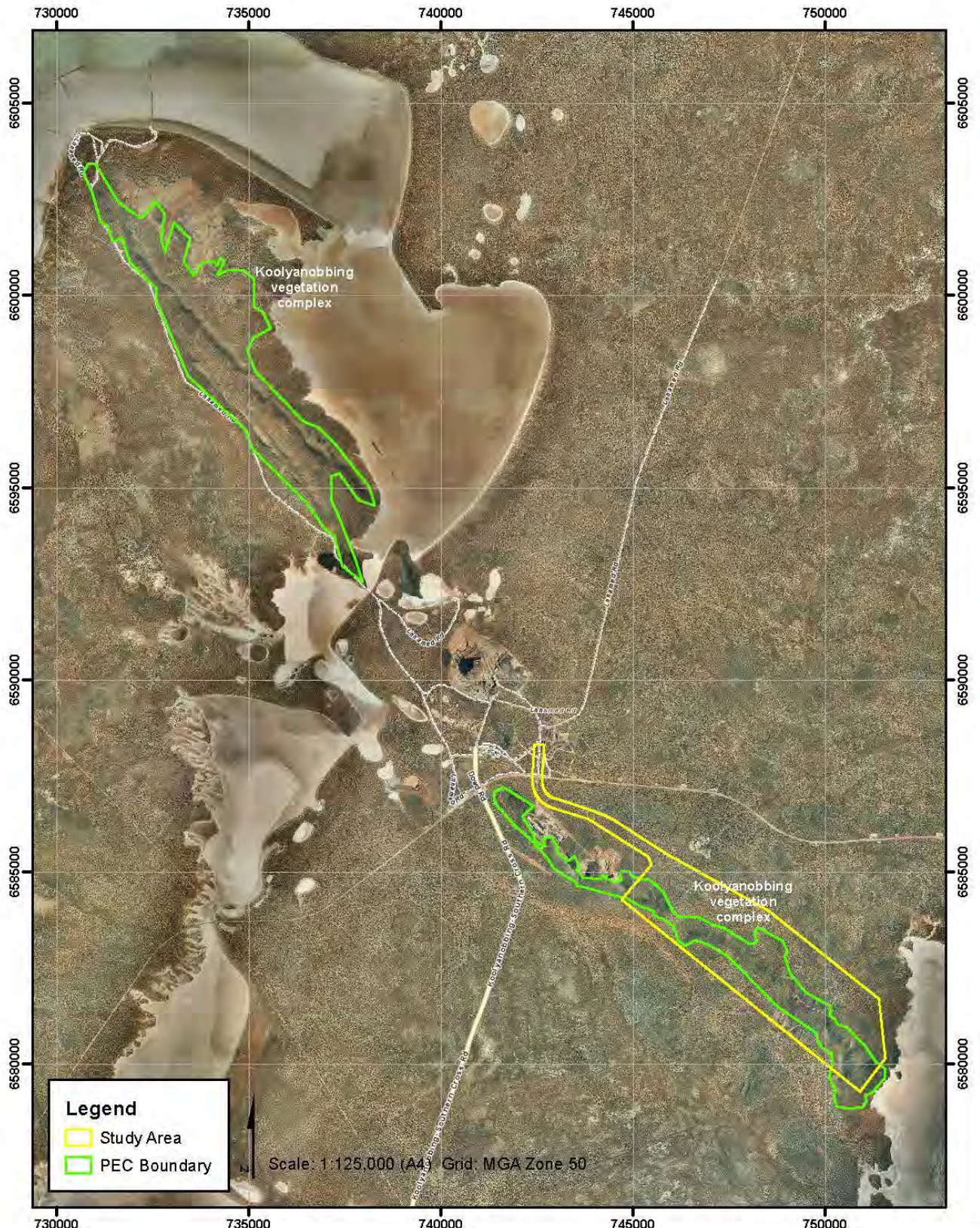
C"ugctej "qh'v'j g"Eqo o qpy gcnj "F gr ctvo gpv'qh'v'j g"Gpxkqpo gpv\*"F qG+f cvdcug"y kj "tgi ctf "  
vq"gpv'kqpo gpv'n'o cwtu"qh'pcv'kqpcn'uki pkkcepeg"rkuvf "wpf gt"vj g"GRDE"Cev'y cu'r gthqto gf "  
hqt"vj g"Uwf {"Ctgc\*"F qG"4235+0"Vj g"tgwmu"qh'v'j ku"ugctej "kpf kecvg"vj cv'pq"VGEu"rkuvf "wpf gt"  
vj g"GRDE"Cev'eqkpekf g"y kj "vj g"Uwf {"Ctgc0"Vj g"tgwmu"qh'v'j ku"ugctej "ctg"r tgugpvf "kp"  
Crr gpf kz"C0'


C"ugctej "qh'F RcY a"VGE"cpf "RGE"f cvdcug"y cu"wpf gt vngp. "v'kf gpv'kq' "vj g"r tgugpeg"qh'cp {"  
F RcY /ercuukhgf "VGEu"cpf lqt" F RcY /ercuukhgf "RGEu"vj cv'eqkpekf g"y kj "vj g"Uwf {"Ctgc"  
\*F RcY "4235c+0"p q" F RcY /ercuukhgf "VGEu"eqkpekf g"y kj "vj g"Uwf {"Ctgc0"Vj g"Uwf {"Ctgc"  
eqkpekf gu'y kj "3" F RcY /ercuukhgf "RGE."dglpi <

- RGE"=Mqqn'cpqddkpi "xgi gvc'kq"eqo r rvgu"dcpf gf "kqpuvqpg"hqto cv'kq+0"Rtktkv {"  
3+0'

Hki wtg"6"kf gpv'kq' "vj g"mccv'kq"qh'v'j g"Uwf {"Ctgc"tgwxcv"v"vj g"o cr r gf "dqwpf ct {"qh'v'j g"  
F RcY /ercuukhgf "RGE"\*F RcY "4235d+0" Crr gpf kz "D"r tgugpv" f ghp'kqpu"qh'ecvgi qtkgu"cpf "  
etkgtk'hqt" F RcY /ercuukhgf "VGEu"cpf "RGEu"\*F RcY "4232+0'





 <p><b>Cliffs Asia Pacific Iron Ore Pty Ltd</b>  <b>Southern Koolyanobbing Range</b>  <b>Study Area and Location of DPaw-Classified PEC Boundary</b></p> <p>woodmanenvironmentalconsulting</p> <p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>	Author: David Coultas	<b>Figure</b>  <b>4</b>
	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f04.mxd	
	Revision: A - December 2013	



2.5 REGIONAL FLORA

F RcY ōi'yj tgevgpgf "hqt c" f c'vdcugu. "kpenwf kpi "y j g" Y guvgtp "Cwutcrkcp" J gtdctkwo "ur geko gp" f c'vdcug. "Vj tgevgpgf "cpf "Rtkqtkv{ "Hqt c" f c'vdcug. "cpf "Vj tgevgpgf "cpf "Rtkqtkv{ "Hqt c" Nku. "y g" ugctej gf "hqt" kphqto c'kq'p' tgi ctf kpi "eqpugt'xc'v'kq'p' uki p'k'k'ecp'v'c'z'c' m'p'q'y p' "Hqo "y k'j k'p' "q't' "k'p' "y j g" k'o o g'f k'c'v'g'x'k'k'p'k'v{ "q'h' "y j g" Uwf { "Ctgc "F RcY "4235e+0" "Vj g" ugctej "y cu'tgs wguvgf "hqt "y j g" Uwf { "Ctgc "cpf "cp' "cf f k'k'q'p'c'n'47" nō "dwhgt' | q'p'g'0' "

Vy q "Tctg" Hqt c " \*T+ "wzc" f gemt'gf "wpf gt" "y j g" Y k'f' r'k'g' "Eqpugt'xc'v'kq'p' "Cev'3; 72" \*Y C+ "y g" g" k'f g'p'k'k'g' "cu" j' c'x'k'p'i "y j g" r' q'v'g'p'v'c'n'v'q' "q'ewt' "y k'j k'p' "y j g" "ugctej "ctgc "F RcY "4235e+ "d'g'k'p'i <

- I c'ut'q'q'd'k'wō "i t'c'p'k'k'ewō =c'p'f "
- V'g't'c'y' g'ec "g't'w'd'g'u'e'g'p'u"

Dqy "ur geku" I c'ut'q'q'd'k'wō "i t'c'p'k'k'ewō "cpf "V'g't'c'y' g'ec "g't'w'd'g'u'e'g'p'u" j' c'x'g" d'g'g'p' "cu'gu'ug'f "d { "F RcY "cu" X'w'p'g't'c'd'g. "w'ul'k'p'i "k'p'v'g't'p'c'v'k'q'p'c'n' W'p'k'q'p' "hqt "Eqpugt'xc'v'kq'p' "q'h' P' c'w't'g' \*KWE P +T'g'f "Nku" e't'k'g't'k' \*F RcY "4235f +0" "

Vj g"ugctej "ctgc" c'n'q' "k'f g'p'k'k'g' "y j g" r' q'v'g'p'v'c'n' r' t'g'ug'p'eg' "q'h' 57" F RcY /e'rc'u'k'k'g' "Rtkqtkv{ "Hqt c" v'z'c' "y j k'ej "j' c'x'g' "y j g" r' q'v'g'p'v'c'n'v'q' "q'ewt' "y k'j k'p' "y j g" "ugctej "ctgc. "d'g'k'p'i <

- Dc'g'eng'c "ur 0F k'g' J ctf { "Tcpi g' \*G00 c'w'k'ung' L; 3+ \*R3 ="
- Dg'f'g't'k' "t' q'w'g'm'v'c " \*R3 ="
- Ng'w'eq'r'q'i' q'p' "ur 0[ g'm'y f k'p'g' \*O 0J k'ur'r' ( "H0J q't'v'0 J "53; 6+ \*R3 ="
- Vg'ev'k'eq't'p'k' "h'w'd'g'n'k'q't' o k'u' \*R3 ="
- Dc'g'eng'c "ur 0Lc'w't'f'k'U'c'v'k'q'p' \*NOY 0U'c'i' g' ( "H0J q't'v'444; + \*R4 ="
- G'r'ev'j' c'p'y' w'u'r' w'uk'm'u' \*R4 ="
- H't'c'p'ng'p'k' "d't'c'ej {r'j {m' \*R4 ="
- I'q'q'f' g'p'k' "l'c'w't'f' k'g'p'u'k' \*R4 ="
- J'g'o' k'i' g'p'k' "v'g'p'g'n'k'h'q't'c' \*R4 ="
- N'g'r'k'f' k'wō "o' g't't'c'n'k' \*R4 ="
- N'k'u'c'p'y' g' "u'ec'd't'c' \*R4 ="
- R'j' r'g'i' o' c'v'q'ur' g't'o' wō "g't'g'o' c'g'wō \*R4 ="
- X'g't'v'k'eq't'f'k' "r'w'ej' g'm'v' \*R4 ="
- C'e'c'ek' "f' g'ug't'v'q't' wō "x'c't'0'p'w'f' k'r' g'u' \*R5 ="
- C'w'ut'q'w'k'r'c' "d'r'c' e'n'k' \*R5 ="
- Dc'g'eng'c "ur 0D'w'p'i' c'n'd'k'p' J' k'm' \*D10 N'g'r' u'ej' k' ( "N0C 0E't'c'x'g'p'67: 8+ \*R5 ="
- Dc'g'eng'c "ur 0V'c'o' o' k'p' \*T0E'q'x'g'p' { "53; ( "D0J c'd'd'g't'r'g' { + \*R5 ="
- D'q'u'k'g'c' "ur 0L'c'e'm'q'p' "T'c'p'i' g' \*I 0E'q'e'm'g't'v'q'p' ( "U0O e'P' g'g' "NEU"35836+ \*R5 ="
- G't'g'o' q'r'j' k'r' "l'w'ee'k'p'g'c' \*R5 ="
- G'w'ec'r'f' r'w'u' "g'z'k'i' w'c' \*R5 ="
- I'p'g'r'j' q'u'k'u' "ur 0P' q't'ug'o' c'p' \*M0F 0P' g'y' d'g' { "2; 8+ \*R5 ="
- I'q'o' r'j' q'r'q'd'k'wō "e'k'p'g't'g'wō \*R5 ="
- J'k'd'd'g't'v'k' "r'g'r'k'f' q'ec'r'f'z' "u'w'd'ur' 0'w'd'g't' e'w'r'c'w' \*R5 ="
- N'g'r'k'f' q'ur' g't'o' c' "h'g't't'k'eq'r'c' \*R5 ="
- N'g'r'k'f' q'ur' g't'o' c' "h'q'p'u'k'k' \*R5 ="
- O'k't' d'g'r'k' "h'g't't'k'eq'r'c' \*R5 ="
- U'r'c't'v'q'y' c'o' p'g'm' "ur 0J' g'ng'p'c' ( "C'w't'q't'c' "T'c'p'i' g' \*R0I 0C't'o' u't'q'p'i "377+ \*R5 ="
- U'g'p'c'p'y' g'o' wō "p'g'y' d'g'f'k' \*R5 ="
- U'f' r'k'f' k'wō "e'j' q't' g'c'p'y' wō \*R5 ="



- Uf rj grk "ur 0Dwnhpej \*O 0J kur "5796+\*R5="
- Xgtvkeqtf kc "o kxf gu"R5="
- Dcpnuk "ct dqt gc"R6="
- I t gxrngc "vgt crngwt c"R6="
- J c gi kgr "vc vgl"R6="cpf "
- Uqy gt dcgc "o wkecwku"R6="

Cr r gpf kz "E" r t g u g p v u "j g "t g u w m "q h "j g "f c v d c u g "u g c t e j 0 "Cr r g p f k z "F " r t g u g p v u "e q p u g t x c v k q p " e q f g u "h q t "Y g u v g t p "C w u t c r k p "h q t c "F R c Y "4235 g +0"

Vj g "u g c t e j "q h "j g "F q G "f c v d c u g "F q G "4235 + "k p f k e c v g u "j c v "8 "k u g f "V j t g c v g p g f "U r g e k u "q h "h q t c " r t q v e v g f "w p f g t "j g "G R D E "C e v "q t "j c d k c v "h q t "u w e j "u r g e k u "o c { "r q v g p v k m { "q e e w t "k p "j g "U w f { " C t g c "d g k p i <

- Cecekc "hqdwrw="
- Gt go qrj kc "xk gpi="
- Gt go qrj kc "xkuekf c="
- Tkekpqect r qu "dt g x k u ="
- Tq { e g c "r { e p q r j { m k f g u = "c p f "
- Vgt c v j g e c "r c { p v g t c g "

Vj g "u g c t e j "q h "j g "F q G "f c v d c u g "F q G "4235 + "c n u q "k p f k e c v g u "j c v "3 "k p v t q f w e g f "v z q p "q t "j c d k c v " h q t "u w e j "v z q p + "r q v g p v k m { "q e e w t u "y k j k p "j g "U w f { "C t g c "d g k p i <

- Ecttkej vgt c "cppw "Y ctf ai "Y ggf +0"

Ecttkej vgt c "cppw "ku "e q p u k f g t g f "d { "j g "u c v g u "c p f "v g t t k q t k g u "q h "C w u t c r k e "v q "r q u g "c "r c t v k e w r c n { " u k i p k h e c p v "j t g c v "v "d k q f k x g t u k v { "c u "k v "k u "h p q y p "v "d g "l p x c u k x g "F q G "4235 +0"

C "u g c t e j "q h "j g "Y g u v g t p "C w u t c r k p "J g t d c t k w o "u r g e k o g p "f c v d c u g "y c u "r g t h q t o g f "w u l p i "j g " q p r k p g "v q q n "P c w t g O c r "F R c Y "4236 c + "v q "f g v g t o k p g "y j g y g t "c p { "t g e q t f u "q h "k p v t q f w e g f "v z c " q e e w t "y k j k p "q t "k p "j g "x l e k p k v { "q h "j g "U w f { "C t g c 0 "V j g "u g c t e j "c t g c "w u g f "j g "U w f { "C t g c "y k j "c " d w h g t "q h "c r r t q z k o c v g n { "32 "n o 0 "T g e q t f u "q h "j g "k p v t q f w e g f "h q t c "v z c "e q k p e k f "g "y k j "j g "u g c t e j " c t g c "d g k p i <

- Dtcuuec "iqw pglqt vk "O gf kggtcpgcp "Vwtpkr ="
- Dt qo wul f k c p f t w u "I t g c v "D t q o g ="
- Ectvj co wul r c p c w u "U c h t q p "V j k u v g ="
- Egpvwt gc "o grkvgpuki "O c n g u g "E q e m u r w t ="
- O g u g o d t { c p v j g o w o "p q f k h q t w o "U g p f g t "K e g r n c p v ="
- R g p w o g t k u "c k t q k f g u "u w d u r 0 c k t q k f g u "H e n g "J c k t i t c u u ="
- U q p e j w u "q r g t c e g w u "E q o o q p "U q y v j k u v g ="
- W t u k p k "c p v j g o q k f g u "u w d u r 0 c p v j g o q k f g u "W t u k p k = "c p f "
- X w r k "o w t c r k u "Y c m l "H g u e w g +"

## 2.6 LOCAL FLORA AND VEGETATION SURVEYS

Y g u v g t p "D q v c p k e c n "4226 + "e q p f w e g f "c "c t i g v g f "u w t x g { "h q t "V g t c v j g e c "g t w d g u e g p u "T + "p c o g f " c u "V g t c v j g e c "g t w d g u e g p v k "o u "c v "k o g "q h "u w t x g { + "k p "j g "M q q n { c p q d d k p i "T c p i g "y k j "r c t v "q h " j g "u w t x g { "e q p f w e g f "y k j k p "j g "U w f { "C t g c 0 "U g c t e j g u "q h "c r r t q r t k v g "j c d k c v "e r k h "k p g u "c p f " g z r q u g f "t q e m "q w e t q r u "y g t g "k p u r g e v g f "q p "h q q v "k p "o k f / L x p g "4226 0 "V j g "v q v n "q h "5.738 "r n r p u "

y cu'tgeqtf gf "kp" c"eqp hkgf "ctgc"qxgt "c" f kucpeg"qh'rguu"vj cp"4"no "y kj kp"vj g"Mqqr'cpqddkpi "Tcpi g." f gur kg'kpur gevkkp"qh'qj gt'r qvkvknj cdkcv'ctgcu'cmppi "vj g"Mqqr'cpqddkpi "Tcpi g0""

Y guvgtp"Dqvcplecn\*4229/422: "wpr wdrukj gf "f cvc+"wvf gtvqm'c"tcpi g"qh'hkgrf "uwxg{u'y kj kp"vj g"Uwf {"Ctgc"vq" f gvto kpg"vj g"qeevtgpeg"cpf "f kwtkdwkq"qh'eqpugtxcvkp"uki p hkecpv'hqtc"vzc."y kj "vj g'hqmjy kpi "hqt c"vzc" k'gpv hkgf <

- Vgt cvj gec'gt wdguegpu"\*T ="
- Dgl gt kc't quwgrw"\*R3 ="
- Cecek'f kuqpc"xct0'kpf qnqt kc"\*R5 ="
- J kddgt vk'gr kf qecrf z'uwdur 0'wdgt ewrw"\*R5 ="
- Ngr kf qur gt o c'ht t keqr"\*R5 ="
- Ur ct vj co pgrw"ur 0J grgpc"( "Cwtqt c" Tcpi g"\*R5 ="
- Uvpcpvj go wo 'pgy dgf k'\*R5 ="
- Uf r j gk"ur 0Dwntkpej "\*O 0J kumr "5796+"\*R5 ="
- Dcpmk "ct dqt gc"\*R6 ="
- I t gxhngc'gt gevkt dc"\*R6 ="
- Cecek'ch0cewtk "\*r qvkvcm{ 'wvf guetkdgf = "cpf "
- F cxkguk "ur 0Mqqr'cpqddkpi "\*r qvkvcm{ 'wvf guetkdgf +"

Y guvgtp"Dqvcplecn\*422; +wvf gtvqm'c'hqt c'cpf "xgi gvcvkp'cuuguu gpv'qh'r ctv'qh'vj g"Uqwj gtp" Mqqr'cpqddkpi " Tcpi g." r ctvcm{ " eqkpek'kpi " y kj " vj g" Uwf {" Ctgc0" " Vj g" tgr qt v' hqt" vj ku' cuuguu gpv'y cu'eqo r kgrf "htqo "c"ugt kgu'qh'uwxg{u'wvf gtvcngp'd{"Y guvgtp"Dqvcplecn"qxgt"vj g" {gctu" 4226." 4229" cpf " 422; ." y j kej " kpenw gf " hkgrf " xgi gvcvkp" o cr r kpi " cpf " vcti gvgrf " eqpugtxcvkp"uki p hkecpv'vzc"uwxg{u0"C"vqcn'qh"57"xgi gvcvkp"eqo o wpkkgu"y gtg"o cr r gf " cetqu"vj g"Mqqr'cpqddkpi "Tcpi g0"

Y guvgtp"Dqvcplecn\*422; +tgeqtf gf "vj g'hqmjy kpi "F RcY /ercu hkgf "Rtkqt kv{ 'hqt c'vzc<

- Dgl gt kc't quwgrw"\*R3 ="
- J kddgt vk'gr kf qecrf z'uwdur 0'wdgt ewrw"\*R5 ="
- Ngr kf qur gt o c'ht t keqr"\*R5 ="
- Ur ct vj co pgrw"ur 0J grgpc"cpf "Cwtqt c" Tcpi g"\*R5 0Cto utqpi "377/32; +\*R5 = "cpf "
- Uvpcpvj go wo 'pgy dgf k'\*R5 +"

P q'kptqf wegf "vzc"y gtg'tgr qt vgf "d{ "Y guvgtp"Dqvcplecn\*422; +0'

O ckc"Gpxktpo gpvniEqpuwncpe{ "\*O ckc+"eqpf wevgf "c"egpuwu"qh'Vgt cvj gec'gt wdguegpu"\*T+"kp" vj g"Uqwj gtp'Mqqr'cpqddkpi "Tcpi g'kp'Lxp'g'cpf "Lwn{ "4235"\*O ckc"4235+"y kj "vj gk'egpuwu'ctgc" nqecvgf "y kj kp"vj g"Uwf {"Ctgc0" O ckc"tgeqtf gf "c"vqcn'qh"8.543"kp'kxf wcn' qh' Vgt cvj gec' "gt wdguegpu."eqo r tkupi "8.3; 2" rkg"kp'kxf wcn'cpf "353" f gcf "kp'kxf wcn'0" kp'kxf wcn'y gtg" tgeqtf gf "kp"6"ur cvcm{ "ugr ctv"i tqwr u'f kwtkdwgf "qxgt "c" f kucpeg"qh'cr r tqzko cvgn{ "308"no 0" O ckc'cuq'tgeqtf gf "7" F RcY /ercu hkgf "Rtkqt kv{ "Hqt c'vzc"kp"vj g'egpuwu'ctgc."dglpi <

- Dgl gt kc't quwgrw"\*R3 ="
- J kddgt vk'gr kf qecrf z'uwdur 0'wdgt ewrw"\*R5 ="
- Uvpcpvj go wo 'pgy dgf k'\*R5 ="
- Uf r j gk"ur 0Dwntkpej "\*O 0J kumr "5796+"\*R5 ="
- Dcpmk "ct dqt gc"\*R6 = "cpf "

O ckc\*4235+tgeqtf gf "7" kptqf wegf "hqt c'vzc"kp"vj g'egpuwu'ctgc."dglpi <

- Cevquc "xgukect kc"\*T wd{ 'F qem ="

- Ecttkej vgtc'cppwc '\*Y ctf ai'Y ggf +=
- Gtqf kw' cwt gwo =
- Nfuko cej kc'ctxgpukc=cpf "
- Rgpwo gtki'ck qkf gu'

## 2.7 OVERVIEW OF CONSERVATION SIGNIFICANT AND INTRODUCED TAXA

C"ruv'qh'eqpugtxcv'kq'uki pkk'ecpv'vcz'vj cv'ctg'npqy p'y kj k'p'qt'k'p'vj g'xlekp'k'qh'vj g'Uwf {"  
 Ctgc'ku'r'tgugpv'k'Vcdg'4.'cm'pi 'y kj 'vj gk'ewt'gpv'F RcY /encuuk'k'g' 'Rtkqtk' 'Hqt c'tcp'k'pi u'  
 \*y j gtg'er r'k'ecdr'+.'j cdkcv'cpf 'h'ny g'k'pi 'r g'k'qf '\*F RcY "4236d+0"Vj ku'ruv'j cu'dggp'eqo r'k'gf "  
 Htqo "vj g'tgu'wu'qh'ugtej gu'qh'F RcY ai'f cvdcugu'\*Cr r'gp'f k'z "E+."cpf "Htqo "j k'v'q't'k'ec'n'm'ec'n'  
 h'qt c'uw'x'g'{'u'w'p'f g't'v'ng'p'y kj k'p'cpf "k'p'vj g'ko o g'f k'cv'g'xlekp'k'qh'vj g'Uwf {"Ctgc"\*Y g'ug'g'p'  
 Dq'v'p'k'ec'n'422; =Erkhu'Uki pkk'ecpv'Hqt c'F cvdcug.'O c'k'4235+0'"

Htqo " r'tg'x'k'w'u' uw'f'k'gu' cpf " ugtej gu' qh' t'g'x'c'p'v' f'cvdcugu." c' v'q'v'n' qh' 63" eqpugtxcv'kq'  
 uki pkk'ecpv'vcz'r'q'v'p'v'k'm'q' "q'ee'w'y kj k'p'vj g'Uwf {"Ctgc.'k'p'ec'n'k'pi 'vcz'f'g'er'ct'g' "cu'T'ct'g'Hqt c'  
 w'p'f g't'vj g'Y k'f'k'k'g'Eqpugt'xcv'kq' "Cev'3; 72 '\*Y C+.'Vj t'g'c'v'g'p'g'f "U'r'g'el'gu'qh'h'qt c'w'p'f g't'vj g'GRDE"  
 Cev'F RcY /encuuk'k'g' 'Rtkqtk' 'Hqt c'vcz'cpf 'r'q'v'p'v'k'm'q' 'w'p'f g'ue't'k'd'g'f 'vcz'0'

**Table 2: Conservation Significant Flora Taxa Potentially Occurring within the Study Area "**

Taxon	Cons. Code	Preferred Habitat Requirements	Description and Flowering Period
<i>I cwt q' r' q' d' k' w' "</i> <i>i t' c' p' k' e' w' "</i>	T"	I t' c' p' k' e' g' " q' w' e' t' q' r' u. " o' c' t' i' k' p' u' q' h' " t' q' e' n' i' q' w' e' t' q' r' u. " c' n' p' i' " f' t' c' l' p' c' i' g' " r' k' p' u' " q' p' " i' t' c' p' k' e' g' " q' w' e' t' q' r' u' 0' " U' c' p' f' . " u' c' p' f' { " n' q' c' o' . " i' t' c' p' k' e' g' 0' "	G' t' g' e' v' " q' r' g' p' " u' j' t' w' d' . " v' q' " 4' 0' " o' " j' k' i' j' 0' " H' 0' { g' m' y' ( " q' t' c' p' i' g' " ( " t' g' f' . " C' w' i' " v' q' " U' g' r' 0' " U' c' p' f' . " u' c' p' f' { " n' q' c' o' . " i' t' c' p' k' e' g' 0' " O' c' t' i' k' p' u' q' h' " t' q' e' n' i' q' w' e' t' q' r' u. " c' n' p' i' " f' t' c' l' p' c' i' g' " h' k' p' u' 0' "
<i>V' g' t' c' y' g' e' c' " g' t' v' d' g' u' e' g' p' u' "</i>	T"	T' g' f' " e' r' c' { " n' q' c' o' 0' " " E' r' k' h' i' " r' k' p' u' " y' k' j' " g' z' r' q' u' g' f' " d' c' p' f' g' f' " k' t' q' u' v' q' p' g' 0' " Q' p' n' " n' p' q' y' p' " h' t' q' o' " M' q' q' n' c' p' q' d' d' l' p' i' ' t' c' p' i' g' "	N' q' y' . " c' p' i' r' g' f' " u' j' t' w' d' . " 2' 0' 8' 7' 6' 2' 0' " o' " k' p' " j' g' l' i' j' v' " 2' 0' 8' 6' 3' 0' " o' " y' k' f' g' . " i' n' e' w' e' q' u' a' " v' q' " i' t' g' { k' u' j' / i' t' g' g' p' " k' p' " q' x' g' t' c' m' " c' r' r' g' e' t' c' p' e' g' . " f' g' e' w' o' d' g' p' v' " v' q' " g' t' g' e' v' " y' k' j' " c' " y' q' q' f' { " u' q' e' n' 0' " " I' g' p' g' t' c' m' " " c' r' r' g' e' t' u' h' e' c' h' g' u' o' " H' u' y' g' t' u' y' j' k' e' g' " q' t' " y' j' k' k' u' j' " r' k' p' n' i' y' k' j' " r' k' p' n' i' h' g' e' m' u' 0' "
<i>D' e' g' e' n' c' ' u' r' 0' F' k' e' g' J' c' t' f' " "</i> <i>T' c' p' i' g' " * G' 0' 0' c' w' k' u' n' g' L' ; 3+ "</i>	R3"	H' r' e' v' " n' y' g' t' " u' n' q' r' g' " y' k' j' " u' c' p' f' { " u' k' n' 0' "	U' j' t' w' d' "
<i>D' e' g' { g' t' k' " t' q' u' g' n' e' w' "</i>	R3"	D' e' c' p' f' g' f' " k' t' q' u' v' q' p' g' j' k' m' i' "	U' r' k' p' n' i' " t' g' u' l' p' q' u' a' " t' " x' k' u' e' k' " u' j' t' w' d' " v' q' " 3' 0' " o' " j' k' i' j' . " d' e' t' m' i' t' g' { " c' p' f' " h' k' t' q' u' a' . " { q' w' p' i' " u' j' q' q' u' r' c' n' g' " i' t' g' g' p' . " t' g' e' w' t' x' g' f' " n' e' c' x' g' u' 0' " H' r' 0' i' t' g' g' p' / { g' m' y' " "
<i>N' g' w' e' q' r' q' i' q' p' " u' r' 0' "</i> <i>[ g' m' y' f' k' p' g' " * O' 0' J' k' u' n' q' r' " "</i> <i>( " H' 0' J' q' t' v' O' J' " 53; 6+ "</i>	R3"	W' p' f' w' e' v' k' p' i' " u' c' p' f' " r' n' e' k' p' 0' " F' t' { " { g' m' y' " n' q' c' o' { " u' c' p' f' 0' "	E' q' o' r' c' e' v' u' j' t' w' d' " v' q' " 9' 2' " e' o' " j' k' i' j' " z' 9' 2' " e' o' " y' k' f' g' 0' R' e' p' u' u' r' k' i' j' w' n' i' " n' e' w' e' q' u' a' . " u' k' p' i' n' g' / " u' g' o' o' g' f' " c' v' i' t' q' w' p' f' " n' e' x' g' n' 0' " H' r' 0' " y' j' k' e' g' . " x' c' t' k' e' d' n' g' . " A' Y' k' p' v' g' t' 0' " W' p' f' w' e' v' k' p' i' " u' c' p' f' " r' n' e' k' p' 0' F' t' { " { g' m' y' " n' q' c' o' { " u' c' p' f' " "
<i>V' g' e' v' e' q' t' p' k' e' "</i> <i>h' e' d' g' n' i' k' y' t' o' k' u' "</i>	R3"	U' c' r' i' k' p' g' " e' r' c' { 0' " " U' c' n' " n' e' n' g' u' . " u' c' r' i' k' p' g' " h' e' w' i' "	R' t' q' u' t' c' v' g' " v' q' " g' t' g' e' v' " u' c' o' r' j' k' e' g' " u' j' t' w' d' " v' q' " 2' 0' 8' 7' " o' . " h' i' j' v' i' t' g' g' p' 0' "
<i>D' e' g' e' n' c' ' u' r' 0' L' e' w' f' k' "</i> <i>U' e' v' k' a' p' " * N' O' Y' 0' U' c' i' g' ( " H' 0' "</i> <i>J' q' t' v' 444; + "</i>	R4"	U' c' p' f' r' n' e' k' p' . " r' i' k' i' j' v' d' t' q' y' p' l' { g' m' y' " u' c' p' f' " "	R' g' t' g' p' p' l' e' i' f' y' c' t' h' " u' j' t' w' d' " e' c' " 72' " e' o' " j' k' i' j' 0' Y' j' k' e' g' " n' y' g' t' u' . " Q' e' v' d' g' t' "
<i>G' r' e' j' c' p' y' u' u' r' w' u' k' u' u' "</i>	R4"	H' r' e' w' . " r' n' e' k' p' u' . " w' r' r' g' t' " u' n' q' r' g' u' 0' " T' g' f' " q' t' c' p' i' g' " e' r' c' { " n' q' c' o' . " u' q' o' g' w' o' g' u' " y' k' j' " i' t' g' g' p' u' q' p' g' " c' p' f' " i' t' c' p' k' e' g' i' t' c' x' g' n' i' k' o' g' u' v' q' p' g' "	C' u' e' g' p' f' k' p' i' " q' t' " f' g' e' w' o' d' g' p' v' " c' p' p' w' e' n' " j' g' t' d' . " v' q' " 2' 0' 8' 7' " o' " j' k' i' j' 0' " H' 0' { g' m' y' / i' t' g' g' p' . " C' w' i' " v' q' " Q' e' v' 0' "
<i>H' t' c' p' n' g' p' k' " d' t' c' e' j' { r' j' { n' e' "</i>	R4"	U' c' n' " n' e' n' g' " o' c' t' i' k' p' u' 0' "	U' o' c' m' " f' g' e' w' o' d' g' p' v' " u' j' t' w' d' 0' " H' 0' " y' j' k' e' g' " r' k' p' m' " P' q' x' 0' "
<i>I' q' q' f' g' p' k' e' " l' c' w' f' k' e' p' u' k' u' "</i>	R4"	T' g' f' " e' r' c' { g' { " n' q' c' o' " y' k' j' " n' e' v' t' k' e' g' " q' t' " d' e' c' p' f' g' f' " k' t' q' u' v' q' p' g' " i' t' c' x' g' n' i' q' t' " s' w' e' t' v' " r' g' d' d' r' g' u' 0' " N' q' y' / n' k' p' i' " r' n' e' k' p' u' " c' p' f' " n' y' g' t' " u' n' q' r' g' u' "	Q' r' g' p' . " c' e' c' w' a' g' e' g' p' v' r' g' t' g' p' p' l' e' i' n' " j' g' t' d' . " 2' 0' 8' 9' / 2' 0' 8' 7' " o' " j' k' i' j' 0' " " H' 0' { g' m' y' . " U' g' r' / Q' e' v' 0' "
<i>J' g' o' k' i' g' p' k' e' " y' g' p' n' i' h' u' t' c' "</i>	R4"	U' c' p' f' r' n' e' k' p' u' 0' " " N' k' i' j' v' " d' t' q' y' p' l' { g' m' y' " u' c' p' f' 0' "	R' g' t' g' p' p' l' e' i' f' y' c' t' h' " u' j' t' w' d' " e' c' " 42' " e' o' " j' k' i' j' 0' Y' j' k' e' g' " n' y' g' t' u' . " Q' e' v' 0' "
<i>N' g' r' k' f' k' w' o' " o' g' t' t' e' n' i' k' "</i>	R4"	H' r' e' w' 0' " E' r' c' { " n' q' c' o' " "	G' t' g' e' v' " v' q' " u' r' t' g' e' f' k' p' i' " c' p' p' w' e' n' i' " * r' q' u' i' k' n' i' " g' r' j' g' o' g' e' n' c' : " j' g' t' d' . " 2' 0' 8' 5' / 2' 0' 8' 7' " o' " j' k' i' j' 0' "
<i>N' k' a' u' c' p' y' g' " u' e' d' t' c' "</i>	R4"	F' t' { . " y' j' k' e' g' " v' q' " q' t' c' p' i' g' / d' t' q' y' p' " e' r' c' { . " u' c' p' f' { " i' t' c' x' g' n' i' " n' q' c' o' u' . " f' g' e' q' o' r' q' u' k' p' i' " i' t' c' p' k' e' g' 0' " F' g' e' q' o' r' q' u' k' p' i' " i' t' c' p' k' e' g' " d' t' g' e' n' e' y' c' { u' . " w' r' n' e' p' f' u' 0' "	T' k' i' k' f' . " g' t' g' e' v' " h' e' k' n' i' " f' g' p' u' g' n' " d' t' c' p' e' j' g' f' " u' j' t' w' d' . " v' q' " 3' " o' " j' k' i' j' . " n' e' c' h' i' " c' r' g' z' " c' t' k' u' c' v' g' . " w' r' r' g' t' " n' e' c' h' i' " u' w' t' h' e' g' " u' e' d' t' q' u' a' = " n' y' g' t' u' " r' g' f' k' e' g' n' e' v' g' " c' d' q' x' g' " d' t' c' e' v' g' q' n' g' u' 0' H' 0' y' j' k' e' g' . " C' w' i' 0' "
<i>R' j' n' g' i' o' c' v' q' u' r' g' t' o' w' o' "</i> <i>g' t' o' c' g' w' o' "</i>	R4"	U' q' p' { " n' q' c' o' . " e' r' c' { g' { " u' k' n' u' 0' " W' r' r' g' t' " u' n' q' r' g' u' " q' h' " x' c' m' g' { . " i' g' p' v' g' " o' k' f' u' n' q' r' g' " y' k' j' " c' " P' Y' " c' u' r' g' e' v' " h' r' e' v' " r' n' e' k' p' . " k' p' " f' g' r' t' g' u' k' q' p' u' " g' f' i' g' u' " q' h' " u' c' r' i' k' p' g' " n' e' n' g' 0' "	R' t' q' u' t' c' v' g' " v' q' " u' r' t' g' e' f' k' p' i' " c' p' p' w' e' n' " j' g' t' d' . " 2' 0' 8' 4' / 2' 0' 8' * 2' 0' 8' + " o' " j' k' i' j' 0' " H' 0' " y' j' k' e' g' / e' t' g' c' o' . " L' v' p' " q' t' " C' w' i' " v' q' " Q' e' v' 0' " U' q' p' { " n' q' c' o' 0' " " W' r' r' g' t' " u' n' q' r' g' u' " q' h' " x' c' m' g' { . " i' g' p' v' g' " o' k' f' u' n' q' r' g' y' k' j' " c' " P' Y' " c' u' r' g' e' v' . " h' r' e' v' " r' n' e' k' p' . " k' p' " f' g' r' t' g' u' k' q' p' u' " g' f' i' g' u' " q' h' " u' c' r' i' k' p' g' " n' e' n' g' "

Taxon	Cons. Code	Preferred Habitat Requirements	Description and Flowering Period
<i>Xgtveqtfk' r' w' e' j' g' m' c' "</i>	R4"	Uc' p' f' { " u' q' k' n' " q' x' g' t' " i' t' c' p' k' g' 0' O' c' u' u' k' x' g' " i' t' c' p' k' g' " c' t' g' c' u' " i' t' c' p' k' g' " u' j' g' g' w' "	U' r' t' g' c' f' k' p' i' " u' j' t' w' d' " 2' 0' 8' / 2' 0' 6' 7' " o' " j' k' i' j' . " v' q' " 2' 0' " o' " y' k' f' g' 0' H' 0' t' g' f' ( " r' k' p' n' l' { g' m' y' k' t' c' p' i' g' . ' Q' e' v' v' q' ' P' q' x' 0' "
<i>Ce' c' e' k' ' f' g' u' g' t' v' q' t' w' o' ' x' c' t' 0' p' w' f' k' r' g' u' l' "</i>	R5"	U' c' p' f' r' r' c' l' p' u' . " h' r' e' v' u' . " { g' m' y' " u' c' p' f' . " q' e' e' c' u' k' q' p' c' m' { ' r' e' v' g' t' k' e' ' i' t' e' x' g' n' ' "	F' g' p' u' g' " q' t' " q' r' g' p' " u' j' t' w' d' " q' t' " v' t' g' g' " * t' c' t' g' n' + " 2' 0' 8' / 4' " o' " j' k' i' j' . " r' j' { m' j' f' g' u' " 3' 8' / p' g' t' x' g' f' 0' H' 0' { g' m' y' . ' C' w' i' ' v' q' ' Q' e' v' "
<i>Ce' c' e' k' ' f' j' u' a' u' p' c' ' x' c' t' 0' k' p' f' q' u' r' t' k' "</i>	R5"	R' r' c' l' p' u' . " e' c' e' r' c' t' g' q' w' u' " t' k' f' i' g' u' . " d' t' q' y' p' " q' t' " t' g' f' " u' c' p' f' { " m' q' c' o' " q' t' " e' r' c' { " m' q' c' o' . " u' q' o' g' w' o' g' u' " q' x' g' t' " i' t' c' p' k' g' "	G' t' g' e' v' " f' q' o' g' f' " u' j' t' w' d' " y' k' j' " r' w' p' i' g' p' v' " r' j' { m' j' f' g' u' . " 2' 0' 7' / 4' " o' " j' k' i' j' 0' H' 0' { g' m' y' " C' w' i' / U' g' r' + "
<i>C' w' i' a' t' q' u' i' r' c' ' d' r' e' e' n' k' k' "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " t' k' f' i' g' u' . " d' t' g' e' n' e' y' c' { u' . " d' e' c' u' c' n' / j' k' m' u' . " t' q' e' n' { " c' t' g' c' u' . " q' e' e' c' u' k' q' p' c' m' { " r' r' c' l' p' u' " c' p' f' " e' t' g' g' m' k' p' g' u' 0' "	R' g' t' g' p' p' l' e' n' i' w' u' u' q' e' n' i' ' i' t' c' u' l' " v' q' " 3' " o' " j' k' i' j' 0' "
<i>D' e' g' e' n' c' ' u' r' 0' D' w' p' i' c' r' i' d' l' p' " J' k' n' i' * D' 1 0 N' g' r' u' e' j' k' ' N' C' 0' E' t' e' x' g' p' " 6' 7' : 8' + "</i>	R5"	U' c' p' f' r' r' c' l' p' u' . " m' y' g' t' " u' n' r' g' u' . " h' r' e' v' u' " * u' q' o' g' w' o' g' u' i' t' e' x' g' n' { + 0' l' g' m' y' / d' t' q' y' p' " u' c' p' f' . " r' e' v' g' t' k' e' . " i' t' e' x' g' n' 0' "	U' r' t' g' c' f' k' p' i' " o' k' f' / f' g' p' u' g' " u' j' t' w' d' 0' H' 0' y' j' k' g' . ' P' q' x' "
<i>D' e' g' e' n' c' ' u' r' 0' V' c' o' o' k' p' * T' 0' E' q' x' g' p' { " : 5' 3' ; " ( " D' 0' J' c' d' d' g' t' n' g' { + "</i>	R5"	I' g' p' v' g' " u' n' r' g' u' . " d' t' g' e' n' e' y' c' { u' . " f' k' u' w' t' d' e' g' f' " i' t' q' w' p' f' 0' " " N' l' i' j' v' d' t' q' y' p' " u' c' p' f' { " e' r' c' { " q' t' " m' q' c' o' . " u' k' n' { " { g' m' y' / i' t' g' { " u' c' p' f' . " q' t' c' p' i' g' " d' t' q' y' p' " u' c' p' f' " q' t' " m' q' c' o' . " i' t' e' x' g' n' 0' "	E' q' o' r' c' e' v' u' j' t' w' d' . " v' q' " 2' 0' 7' " o' " j' k' i' j' 0' H' 0' e' t' g' c' o' l' y' j' k' g' l' r' k' p' m' ' C' w' i' ' v' q' ' Q' e' v' 0' "
<i>D' q' u' i' k' g' c' ' u' r' 0' L' c' e' m' u' q' p' " T' c' p' i' g' * I' 0' E' q' e' n' g' t' v' q' p' ( " U' 0' 0' e' P' g' g' " N' E' U' 3' 5' 8' 3' 6' + "</i>	R5"	D' t' g' e' n' e' y' c' { u' " c' p' f' " q' w' e' t' q' r' u' . " r' e' v' g' t' k' e' . " i' t' c' p' k' g' " q' t' " k' t' q' u' v' a' p' g' " u' q' k' n' 0' "	F' g' p' u' g' . " u' r' k' p' g' u' e' g' p' v' u' j' t' w' d' " v' q' " 3' 0' 6' " o' 0' " H' 0' y' j' k' g' / e' t' g' c' o' . ' O' c' t' 0' "
<i>G' t' g' o' q' r' j' k' r' ' l' w' e' e' k' p' g' c' "</i>	R5"	H' r' e' v' u' . " m' y' " t' k' u' g' u' 0' " Y' j' k' g' " u' c' p' f' " c' p' f' " u' c' p' f' { " m' q' c' o' . " u' q' o' g' w' o' g' u' " q' x' g' t' " i' t' c' p' k' g' . " d' t' q' y' p' " e' r' c' { " m' q' c' o' . " t' g' f' " e' r' c' { "	G' t' g' e' v' " u' j' t' w' d' . " 3' 0' 4' / 5' " o' " j' k' i' j' 0' H' 0' d' n' w' g' / r' w' r' n' g' . " U' g' r' 0' "
<i>G' w' e' c' r' f' r' w' u' l' g' z' k' i' w' e' "</i>	R5"	U' c' p' f' { " m' q' c' o' . " y' j' k' g' " u' c' p' f' 0' U' c' p' f' r' r' c' l' p' u' . " f' g' r' t' g' u' k' a' p' u' . " g' f' i' g' u' " q' h' ' u' c' n' / r' e' n' g' u' "	O' c' n' g' g' . " 4' / 7' " o' " j' k' i' j' . " d' e' t' n' i' u' o' q' q' y' 0' H' 0' y' j' k' g' / e' t' g' c' o' . ' O' c' t' 0' "
<i>I' p' g' r' j' q' u' k' i' u' r' 0' P' q' t' u' g' o' c' p' " * M' 0' T' 0' P' g' y' d' g' { " : 2' ; 8' + "</i>	R5"	H' r' q' q' f' r' r' c' l' p' u' . " h' r' e' v' u' . " f' t' c' l' p' c' i' g' " r' k' p' g' u' " d' e' u' g' " q' h' ' d' t' g' e' n' e' y' c' { u' 0' " N' q' c' o' { " u' q' k' n' " "	N' q' y' " u' r' t' g' c' f' k' p' i' " c' p' p' w' e' n' j' g' t' d' . " 2' 0' 5' / 2' 0' 9' " o' " j' k' i' j' . " 2' 0' 2' : / 2' 0' 8' " o' " y' k' f' g' 0' H' 0' { g' m' y' . ' U' g' r' v' Q' e' v' "
<i>I' q' o' r' j' q' r' q' d' k' w' o' " e' k' p' g' t' g' w' o' "</i>	R5"	Y' g' m' f' t' c' l' p' g' f' " q' r' g' p' " u' k' s' u' . " u' n' r' g' u' . " r' r' c' l' p' u' . " t' q' c' f' u' k' g' u' 0' [ g' m' y' " u' c' p' f' . " e' r' c' { g' { " u' c' p' f' . " d' t' q' y' p' " m' q' c' o' . " u' c' p' f' { " i' t' e' x' g' n' " r' e' v' g' t' k' e' 0' "	U' j' t' w' d' . " v' q' " 2' 0' 5' " o' " j' k' i' j' 0' H' 0' r' c' r' g' " r' w' r' n' g' . " U' g' r' / Q' e' v' 0' "
<i>J' k' d' d' g' t' v' e' ' r' g' r' k' f' q' e' c' r' f' z' " u' u' r' 0' w' i' d' g' t' e' w' r' e' v' e' "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " t' k' f' i' g' u' . " x' c' n' g' { " u' n' r' g' u' 0' " [ g' m' y' / q' t' c' p' i' g' " m' q' c' o' . " k' t' q' u' v' a' p' g' i' t' e' x' g' n' 0' "	G' t' g' e' v' " u' j' t' w' d' " v' q' " 2' 0' 7' " o' " j' k' i' j' " y' k' j' " r' w' p' i' g' p' v' h' e' c' x' g' u' 0' H' 0' { g' m' y' 0' "
<i>N' g' r' k' f' q' u' r' g' t' o' c' ' i' g' t' t' k' e' q' r' e' "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " t' k' f' i' g' u' . " u' e' t' g' g' " u' n' r' g' u' . " f' t' c' l' p' c' i' g' " h' k' p' g' u' 0' "	U' g' f' i' g' " v' q' " 3' " o' . " r' e' c' x' g' u' " c' p' f' " e' w' r' o' u' " r' t' q' o' k' p' g' p' v' { t' k' f' i' g' f' . " u' w' d' v' g' t' g' v' g' 0' "
<i>N' g' r' k' f' q' u' r' g' t' o' c' ' i' q' u' i' k' k' "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " T' k' f' i' g' u' . " u' e' t' g' g' " u' n' r' g' u' . " f' t' c' l' p' c' i' g' " h' k' p' g' u' 0' "	U' g' f' i' g' " v' q' " 3' " o' . " r' e' c' x' g' u' " c' p' f' " e' w' r' o' u' " d' l' e' q' p' x' g' z' . " y' k' f' g' . " h' k' p' g' n' { " u' t' l' c' v' g' . " i' t' g' g' p' " d' e' q' e' o' k' p' i' " { g' m' y' " c' v' " d' e' u' g' . " t' g' f' " o' c' t' i' k' p' u' " y' k' j' " y' j' k' g' " j' c' k' t' u' " w' u' w' c' m' { " g' o' d' g' f' f' g' f' " l' p' ' t' g' u' k' p' 0' "
<i>O' k' t' d' r' i' c' ' i' g' t' t' k' e' q' r' e' "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " t' k' f' i' g' u' . " e' r' k' h' u' 0' "	U' j' t' w' d' " v' q' " 5' " o' " v' e' n' i' c' p' f' " 4' " o' " y' k' f' g' . " c' r' r' g' e' t' k' p' i' " r' e' c' h' g' u' i' " * r' e' c' x' g' u' " t' g' f' w' e' g' f' " v' q' " u' e' c' r' g' u' + " h' m' y' g' t' u' " { g' m' y' " y' k' j' " t' g' f' . " L' v' p' / P' q' x' 0' "
<i>U' r' c' t' v' a' j' c' o' p' g' m' e' ' u' r' 0' J' g' r' e' p' c' ( " C' w' t' q' t' c' ' T' c' p' i' g' " * R' 0' 0' C' t' o' u' a' q' p' i' " 3' 7' 7' + "</i>	R5"	D' e' c' p' f' g' f' " k' t' q' u' v' a' p' g' " t' e' p' i' g' u' . " u' n' r' g' u' "	G' t' g' e' v' " u' j' t' w' d' " v' q' " 2' 0' " o' . " j' c' k' t' { . " q' r' r' q' u' k' e' " r' e' c' x' g' u' . " d' l' i' " t' g' f' " d' g' t' t' { " h' w' k' u' . " u' o' c' n' i' t' q' w' p' f' " y' j' k' g' " h' m' y' g' t' u' . " h' w' t' { " g' m' p' i' c' v' g' f' " r' e' c' x' g' u' 0' "

Taxon	Cons. Code	Preferred Habitat Requirements	Description and Flowering Period
<i>Ugpcpvj go wo 'pgy dg/k'</i>	R5"	Er{ g{ "ucpf . "er{ "qt"mqco "qxtg" rrvgtkg'qt' k'qpuvqpg'J kmqr gu' qh'dcpf gf "k'qpuvqpg'qt' rrvgtk'le" tlf i gu"	Gtgev'qt"ur tgcflpi "uj twd."3/30"o " j ki j 0' H0' { gmy . " Cwi " vq" Ugr " qt" F ge"qt' Lcp0"
<i>U'rfk'kw "ej qt gcpvj wo "</i>	R5"	Y j kgl{ gmy " qt" tgf " ucpf 0' Rrvkpu"	Etggr kpi " r gtpplken" j gtd." 203/205"o " j ki j . " vq" 205"o " y kf g0' H0' r kpnly j ksg." Ugr " vq" P qx0'
<i>U'f r j g'rk "ur 0'Dvntkpej " *0 0J kmqr "5796+ "</i>	R5"	Er{ "mqco "uqku'qxtg" rrvgtkg'qt" f wletwuv' qwetqr r kpi 0' Dtgcney c { u. j kmqr gu0'	Eqo r cev'uj twd" vq" 3"o " j ki j "z"92" eo " y kf g. " k'v'k'c'v'gn' " dw' qr gpn' " dtcpej gf 0' Hqy gtu" etgco . " dwf " cr gz" r kpm" cpvj gtu" r wtr rg. " Cr t" vq" Lw' 0"
<i>Xgtv'k'q'f'k'c' o' k'q'f' gu'</i>	R5"	[ gmy " ucpf . " qe'ecuk'q'pcm' qxtg" rrvgtkg0' " Ucpf r r'kpu. " wpf w'v'k'pi " r' r'kpu"	Ur tgcflpi " uj twd" vq" 20" o " j ki j 0' Hqy gtu" r kpn' r wtr rg. " Qev' / F ge0' 0'
<i>Dcpmk'c' t' d' q' g' c' "</i>	R6"	Dcpf gf " k'qpuvqpg" j km0' Uqpf { " mqco 0"	Vtgg"qt"uj twd" r'cti g' . 4/ : "o " j ki j 0' H0' { gmy . " O ct" vq" O c { "qt" Ugr " vq" Qev0'
<i>I t g'x'k'ng'c' 'g' t' g'ev'k'q' d' c' "</i>	R6"	Nrvgtk'le" c'pf " dcpf gf " k'qpuvqpg" tlf i gu. " uqr gu" c'pf " ucpf r r'kpu0" I t'cx'gm' " mqco . " { gmy . " tgf " q'c'pi g' uc'pf 0'	Uj twd. "3/5"o " j ki j 0' H0' tgf . " i tggp" qt" q'c'pi g0' Ugr " vq" Qev0'
<i>I t g'x'k'ng'c' 'v'g' t' c' r' g' w' t' c' "</i>	R6"	I t'c'k'g' " qwetqr u. " h'w' " c'pf " r r'kpu" p'gct" i t'c'k'g0' " Ucpf { " mqco " qt' uc'pf " q'p' i t'c'k'g0'	Nqy . " ur tgcflpi . " f gpug. " ur k'p { " uj twd. "207/208" *20 +0" j ki j . " w' v'q" 307" o " y kf g0' H0' r kpn' t' g'f . " Lw' v'q" Ugr 0"
<i>J c' g' i' k'g' r' v'c' v' k' "</i>	R6"	Uc'k'p'g' j c' d' k' w' u. " q'p'g' e' q' m' g' v' k' p' q'p" dcpf gf " k'qpuvqpg" j km0' Er{ . " uc'pf { " mqco . " i { r uwo "	Cuegpf kpi " vq" gtgev' c'ppwcn" j gtd. " 204/202: *204+0" j ki j 0' H0' y j ksg/ { gmy . " Cwi " vq" P qx0'
<i>Uqy g' t' d' c' g' c' 'o' w' n' k' e' c' w' k' u' "</i>	R6"	[ gmy / dtqy p" uc'pf . " qe'ecuk'q'pcm' " qxtg" rrvgtkg0' Ucpf r r'kpu0'	Vwhgf " r gtpplken" j gtd. "2097/2047" o " j ki j 0' H0' r wtr rg/ x'k'q'g'v. " Qev' vq" F ge"qt' Lcp0"
<i>Ce'c'ek' "c' h' 0' c' e' w' t' k' c' "</i>	Rq'v'p'k'c' m' " w' p' f' g' u' e' t' k' d' g' f' "	W'p' n' p' q' y' p' "	W'p' n' p' q' y' p' "
<i>F c' x' k' g' u' k' "ur 0' Mqqr' cpqddlpi "</i>	Rq'v'p'k'c' m' " w' p' f' g' u' e' t' k' d' g' f' "	W'p' n' p' q' y' p' "	W'p' n' p' q' y' p' "

C "ruv'qh"35" k'p'v'q'f' w'eg'f "v'z'c" n'p'q' y' p' "h'qo " y' k'j' k'p' "qt" k'p' "en'q'ug" r' t'q'z'k'o' k'v' "v'q" 'y' g' "Uw'f { "Ct'g'c' "ku" f' k'ur' r'c' { g'f "k'p" V'c'd'ng' "5. " c'p'f " j' c'u" d'g'g'p' "e'q'o' r' k'q'f' "h'qo " Y' g' u'v'g' t'p' "C'w' u' t' c' r' k' e' p' " J' g' t' d' c' t' k' w' o' " u' r' g' e' k' o' g' p' " f' c' v'c. " h'qo " 'y' g' u'g'c' t' e' j' " q' h' 'y' g' " F' q' G' f' c' v' d' c' u' g' " \* F' q' G' " 4235+ : " c' p' f' " h'qo " 'j' k' u' q' t' k' e' c' n' i' q' e' c' n' i' h' q' t' c' " u' w' t' x' g' { u' " \* Y' g' u' v' g' t' p' " D' q' v' p' k' e' c' n' i' 422; = 0' c' k' " 4235+ 0' " " "

V'c'd'ng' "5" c' n' q' " r' t' g' u' g' p' w' " c' " f' g' u' e' t' k' r' v' k' p' " q' h' " g' c' e' j' " y' g' g' f' " v' z' q' p' " \* F' R' e' Y' " 4236d = J' w' u' g' { " g' v' c' r' 0' 4229+ : " c' p' f' " t' c' v' k' p' i' u' h' q' t' " g' c' e' j' " k' p' v' t' q' f' w' e' g' f' " v' z' q' p' " n' p' q' y' p' " h' q' o' " y' k' j' k' p' " q' t' " k' p' " e' n' q' u' g' " r' t' q' z' k' o' k' v' " v' q' 'y' g' " U' w' f' { " C' t' g' c' " w' p' f' g' t' " y' g' 'y' g' p' / F' g' r' c' t' v' o' g' p' v' " q' h' " E' q' u' g' t' x' e' v' k' p' " c' p' f' " N' c' p' f' " O' c' p' c' i' g' o' g' p' w' u' " \* E' C' N' O' + " \* p' q' y' " F' R' e' Y' + " G' p' x' k' t' q' p' o' g' p' v' c' n' i' Y' g' g' f' " U' t' c' v' g' i' { " h' q' t' " Y' g' u' v' g' t' p' " C' w' u' t' c' r' k' e' " \* E' C' N' O' " 3; ; ; + 0' " V' j' k' u' " E' C' N' O' " \* 3; ; ; + " u' t' c' v' g' i' { " c' u' g' u' g' f' " c' p' f' " t' c' v' g' f' " g' p' x' k' t' q' p' o' g' p' v' c' n' i' y' g' g' f' u' " k' p' " v' g' t' o' u' " q' h' 'y' g' k' " g' p' x' k' t' q' p' o' g' p' v' c' n' i' k' o' r' c' e' v' " q' p' " d' k' q' f' k' x' g' t' u' k' v' { " c' e' e' q' t' f' k' p' i' " v' q' " l' p' x' c' u' k' x' g' p' g' u' u' . " f' k' u' t' k' d' w' k' q' p' " c' p' f' " g' p' x' k' t' q' p' o' g' p' v' c' n' i' k' o' r' c' e' v' " c' p' f' " c' u' k' i' p' g' f' " c' " u' e' q' t' g' " q' h' " J' k' i' j' a' " : O' q' f' g' t' c' v' g' a' " : O' k' f' o' q' t' " : N' q' y' o' 0' " C' r' r' g' p' f' k' z' " G' " r' t' q' x' k' f' g' u' " f' g' u' e' t' k' r' v' k' p' u' " q' h' " g' c' e' j' " t' c' v' k' p' i' " h' q' o' " E' C' N' O' " \* 3; ; ; + 0' "

**Table 3: Introduced Flora Taxa Known to Occur Within or in the Vicinity of the Study Area"**

Taxon	Common Name	Description (from DPaW 2014b; Hussey et al. 2007)	Environmental Weed Strategy Rating
<i>Cegvuc'xgukectk "</i>	Twd{ 'F qeni'	Gtgev."uqvw."hrguj { ."j qmty / ugo o gf " cppvni'j gtd."vq"3"o "j ki j 0" Hf0'tgf / r kpm" Lwi'vq" Ugr 0" Xctkgv{ "qh' uqku0' Cmqpi 'tqcf ukf gu. kp'f kuwtdgf 'ctgcu0'	J ki j "
<i>Dt cuilec'vwt pghqt vk'</i>	O gf kgttcpgcp" Vwtpkr "	Tqgvvgf ."cppvni'j gtd."vq"28"o "j ki j 0" Hf0{ gmty letgco ly j kg."Lwp"vq" P qx0' Ucpf { " uqku0' " Ci i tguukxg" y ggf " qh' f kuwtdgf " i tqwvf ." ewnkxcvqp" cpf " ugcukf g0'	J ki j "
<i>Dt qo wu'f kcpf twi'"</i>	I tgev'Dtqo g"	Vwhgf ."cppvni' i tcuu"vq"29"o "j ki j 0' Hf0' r wtr rgl gmty / i tggp letgco ." Cwi " vq" P qx0' Ucpf ." hqco "qt'erc{ 0'	J ki j "
<i>Ecttklej vgtc'c'ppwc "</i>	Y ctf ai'Y ggf "	Gtgev'cppvni'j gtd"vq"26"o "j ki j 0" Hf0' { gmty ." Ugr " vq" P qx0' " Ugo k'ctkf " tgi kpu0'	J ki j "
<i>Ectj co wu'rcpwu'"</i>	Uchhqp"Vj kuvg"	Gtgev."ur kp{ " cppvni' j gtd" vq" 29" o " j ki j ." rxcxgu"tki kf" y kj "ur kp{ " rtdgu0' Hf0' { gmty ." F ge"vq" Cr t0" Xctkgv{ "qh' uqku." kp" etqr u." r cuwtgu" cpf " y cuvg" i tqwvf u0'"	Nqy "
<i>Egpxwt gc'o grkxpuku'"</i>	O cngug" Eqemur wt "	Gtgev."cppvni'qt"dlgppken'j gtd"vq"3"o " j ki j 0" Hf0' { gmty ." Ugr "vq" O ct0" Y ggf " qh' tqcf ukf gu." ewnkxcvqf " ctgcu" cpf " qvj gt'f kuwtdgf 'ukgu0'	O qf gtcvg"
<i>Gt qf kw "cwt gwo "</i>	Uqt nudkm'	Ur tgcf kpi ." uj qtvrkxgf " r gtpgpen' j gtd."vq"20"o "j ki j 0" Hf0' r kpm'r wtr rg." Lwi'vq" Qe0' Ucpf ." ucpf { "erc{ ." hqco 0'	O qf gtcvg"
<i>N'uko cej k'ctxgpuku'"</i>	Rlo r gtpgn'	Ur tgcf kpi ." cppvni' j gtd" vq" 20" o " j ki j 0" Hf0' dng." qtcpi g/tgf 0" I tckpg" qwetqr u." f kuwtdgf "ctgcu0'	O qf gtcvg"
<i>O gugo dt {cpvj go wo " paf hqt wo "</i>	Ugpf gt" k'egr rcpv'	Rtquvcvg" qt" gtgev." uweewgpy' cppvni' j gtd"vq"20"o "j ki j 0" Hf0'y j kg." Ugr "vq" P qx0" Ucpf { "erc{ ." hqco ."erc{ " hqco 0' Erc{ rcpu." ucrlpg'ctgcu0'	O kf "
<i>Rgpwo gt ku' ckt qkf gu' uwdur O'ckt qkf gu'"</i>	Hcng'J cki tcuu"	Vwhgf ."cppvni' i tcuu"vq"20"o "j ki j 0' Hf0' tgf / i tggp0' " Xctkgv{ " qh' uqku." kpenw' kpi " i tckpg" qwetqr u0'	O qf gtcvg"
<i>Uqpej wu'qrgt cegwu'"</i>	Eqo o qp" Uqy y kuvg"	Gtgev'cppvni'j gtd"vq"30"o "j ki j 0" Hf0' { gmty ." Lcp"vq" F ge0" Xctkgv{ "qh' uqku0' Y ggf "qh' y cuvg" r rnegu" cpf " f kuwtdgf " i tqwvf 0'	O qf gtcvg"
<i>Wtukpk" cpvj go qkf gu' uwdur O'cpvj go qkf gu'"</i>	Wtukpk"	Ugpf gt." gtgev' cppvni' j gtd" vq" 20" o " j ki j 0' " Hf0' { gmty ktcpi gletgco / y j kg." Lwi'vq" F ge0" Y ggf "qh'tqcf ukf gu" cpf " y cuvg" r rnegu0'	O qf gtcvg"
<i>Xwrk' b wt crku' "</i>	Y cmi' Hguewg"	Ugpf gt."cppvni' i tcuu"vq"28"o "j ki j 0' Hf0' Cwi " vq" F ge0' " Xctkgv{ " qh' uqku" kpenw' kpi " tqem' 'ctgcu0'	Nqy "



### 3. METHODS

#### 3.1 PERSONNEL AND LICENSING

Vcdrg'6' rku' v' j' g' r' gtuqppgn' kpxqk' g' f' "k' d' q' j' " h' g' r' f' y' q' t' m' c' p' f' " r' r' e' p' v' k' f' g' p' v' h' e' c' v' k' p' u' " h' q' t' " v' j' g' " u' w' t' x' g' { " q' h' " v' j' g' " U' w' f' { " C' t' g' c' 0' " C' m' " v' g' c' o' " i' g' c' f' g' t' u' j' c' x' g' " j' c' f' " r' t' g' x' k' q' u' " h' g' r' f' " g' z' r' g' t' k' g' e' g' " k' p' " c' t' g' c' u' " u' k' o' k' r' c' t' " v' q' " v' j' g' " U' w' f' { " C' t' g' c' . " k' p' e' n' m' f' k' p' i " d' c' p' f' g' f' " k' t' q' u' v' a' p' p' g' " t' c' p' i' g' u' " k' p' " v' j' g' " c' f' l' c' e' g' p' v' " O' w' e' j' k' u' a' p' " T' g' i' k' a' p' . " y' k' j' " r' g' t' u' q' p' p' g' n' " k' p' x' q' k' g' f' " k' p' " r' r' e' p' v' k' f' g' p' v' h' e' c' v' k' p' u' " j' c' x' k' p' i " g' z' v' g' p' u' k' x' g' " v' z' q' p' q' o' l' e " g' z' r' g' t' k' g' e' g' " y' k' j' " v' j' g' " h' q' t' c' " q' h' " v' j' g' " O' w' e' j' k' u' a' p' " T' g' i' k' a' p' 0' " C' m' " r' r' e' p' v' o' c' v' g' t' k' e' n' y' c' u' " e' q' m' g' e' v' g' f' " w' p' f' g' t' " v' j' g' " u' e' k' g' p' v' h' e' " r' e' g' p' e' g' u' " r' v' t' u' w' c' p' v' " v' q' " v' j' g' " Y' k' f' r' h' g' " E' q' p' u' g' t' x' c' v' k' p' " C' e' v' 3; 72 " \*Y C + " U' g' e' v' k' p' " 45E " c' p' f' " U' g' e' v' k' p' " 45H " c' u' " r' k' u' g' f' " k' p' " V' c' d' r' g' " 60 " "

Table 4: Personnel and Licensing Information

Personnel	Role	Qualifications	Flora Collecting Permit *Y k' f' r' h' g' " E' q' p' u' g' t' x' c' v' k' p' " C' e' v' 3; 72 " *Y C + "
F c x k f " E q w a c u "	H g r f y q t m " r t a l g e v " o c p c i g t . " v g c o " i g c f g t + = " R r e p v k f g p v h e c v k p u "	D U e " * G p x k t q p o g p w e n " D k q m i { + " * J q p u + "	UN2326; ; " "
D g v j g c " N q w f q p "	H g r f y q t m " v g c o " i g c f g t + = " R r e p v k f g p v h e c v k p u "	D U e " * D k q m i { + "	UN232724 " "
C r i k u p " U e r i c t k "	H g r f y q t m " v g c o " i g c f g t + = " R r e p v k f g p v h e c v k p u "	D U e " * G p x k t q p o g p w e n " D k q m i { + " * J q p u + "	UN232722 "
I q j p " I t c p j c o " "	H g r f y q t m "	D U e " * G p x k t q p o g p w e n " T g u v t c v k p I E q p u g t x c v k p " D k q m i { + "	UN232725 "
O g r i k u c " J c { " "	H g r f y q t m "	D U e " * G p x k t q p o g p w e n " D k q m i { + "	UN232889 "
V g t t k l a p p g u "	H g r f y q t m "	D U e " * G p x k t q p o g p w e n " U e k g p e g I E q p u g t x c v k p " c p f " Y k f r h g " D k q m i { + "	UN232723 "
U c o w e n i E q w a c u "	H g r f y q t m "	D U e " * G p x k t q p o g p w e n " D k q m i { + "	UN232727 "
H e c p m i Q d d g p u "	R r e p v k f g p v h e c v k p u "	D U e " * D k q m i { + "	P C "

#### 3.2 AERIAL PHOTOGRAPHY INTERPRETATION

K' k' k' e' n' k' p' v' t' r' t' g' v' k' a' p' " q' h' " x' g' i' g' v' c' v' k' a' p' " d' q' w' p' f' c' t' k' g' u' " y' c' u' " e' q' p' f' w' e' v' g' f' " y' k' j' " v' j' g' " w' u' g' " q' h' " c' g' t' k' e' n' " r' j' q' v' i' t' e' r' j' { " c' v' c' " u' e' c' r' g' " q' h' " 3-32.2220 " R' t' g' r' i' k' o' k' p' c' t' { " r' r' e' p' v' e' q' o' o' w' p' k' v' { " d' q' w' p' f' c' t' k' g' u' " d' c' u' g' f' " q' p' " x' k' u' k' d' r' g' " r' c' w' g' t' p' u' " y' g' t' g' " f' g' v' g' t' o' k' o' g' f' . " v' q' " c' m' q' y' " h' q' t' " x' g' t' k' h' e' c' v' k' a' p' " q' h' " v' j' g' u' g' " d' q' w' p' f' c' t' k' g' u' " v' q' " d' g' " e' q' p' f' w' e' v' g' f' " k' p' " v' j' g' " h' g' r' f' " x' l' c' " s' w' c' f' t' e' v' " g' u' e' d' r' i' k' u' j' o' g' p' v' c' p' f' " o' c' r' r' k' p' i " p' q' v' u' o' " R' t' g' r' i' k' o' k' p' c' t' { " s' w' c' f' t' e' v' " i' q' e' c' v' k' a' p' u' " y' g' t' g' " c' n' u' q' " u' g' r' e' v' g' f' " d' c' u' g' f' " q' p' " v' j' g' u' g' " r' r' e' p' v' e' q' o' o' w' p' k' v' { " d' q' w' p' f' c' t' k' g' u' " " C " o' k' p' k' o' w' o' " q' h' " 5 " s' w' c' f' t' e' v' " y' g' t' g' " c' m' q' e' c' v' g' f' " v' q' " g' c' e' j' " f' l' u' e' g' t' p' k' d' r' g' " r' r' e' p' v' e' q' o' o' w' p' k' v' { " y' j' g' t' g' " r' q' u' i' k' d' r' g' = " p' q' v' k' p' i " v' j' c' v' u' e' j' " t' g' r' i' e' c' v' k' a' p' " k' u' " t' g' s' w' k' t' g' f' " h' q' t' " o' g' e' p' k' p' i' h' a' n' i' t' g' u' w' u' " v' q' " d' g' " r' t' q' f' w' e' g' f' " h' q' m' q' y' k' p' i " u' v' c' v' u' e' c' n' c' p' e' n' { u' k' u' " q' h' " s' w' c' f' t' e' v' " f' c' v' . " c' p' f' " v' q' " r' t' q' x' k' f' g' " i' q' e' c' n' e' q' p' v' g' z' v' h' q' t' " x' g' i' g' v' c' v' k' a' p' " w' p' k' v' f' k' u' t' k' d' w' k' a' p' 0' "

#### 3.3 FIELD SURVEY METHODS

V' j' g' " h' g' r' f' " u' w' t' x' g' { " y' c' u' " e' q' p' f' w' e' v' g' f' " q' x' g' t' " 4 " x' k' u' k' u' " k' p' " r' e' v' g' " Y' k' o' v' g' t' " c' p' f' " g' c' t' n' { " U' r' t' k' p' i . " h' t' q' o' " v' j' g' " 49 " j' " C' w' i' w' u' w' o' " 5 " f' " q' h' " U' g' r' v' g' o' d' g' t' " 4235 . " c' p' f' " h' t' q' o' " v' j' g' " 39 " j' " o' " 46 " j' " q' h' " U' g' r' v' g' o' d' g' t' " 42350 " " D' q' v' j' " v' j' g' " t' g' e' q' p' p' c' k' u' c' p' e' g' " c' p' f' " f' g' v' c' k' r' g' f' " u' w' t' x' g' { " u' " \* d' q' v' j' " q' h' " y' j' k' e' j' " h' q' t' o' " r' c' t' v' " q' h' " c' " N' g' x' g' n' " 4 " u' w' t' x' g' { " c' u' " f' g' h' k' o' g' f' " d' { " G' R' C " \* 4226 + " y' g' t' g' " w' p' f' g' t' w' c' n' g' p' " f' w' t' k' p' i " v' j' g' u' g' " x' k' u' k' u . " y' k' j' " v' j' g' " t' g' e' q' p' p' c' k' u' c' p' e' g' " u' w' t' x' g' { "

wpf gtvcngp'cv'yj g'uvctv'qh'yj g'Cwi wuv'4235'xluku0''Vj gug'xluku'y gtg'eqpf wevgf 'y kj kp'yj g'vko g'  
r gtkqf 'yj cv'yj g'o clqtkv'qh'vcz'kp'yj g'Eqqni ctf kg'Tgi kqp'ctg'eqpukf gtgf 'o quv'knng'vq'hmjy gt0''

C'vqcr'qh'3; ; "pqp/r gto cpgpv'hmte"uwxg{"s wcf tcw'y gtg'gucdrkuj gf "f wtkpi "uwxg{"kp'42350"  
Qh'yj gug."375"s wcf tcw'y gtg'gucdrkuj gf "y kj kp'yj g'Uwf {"Ctgc0''Vj g'tgo clpki "68"s wcf tcw"  
y gtg'gucdrkuj gf "qwukf g'yj g'Uwf {"Ctgc"vq'tg/o cr "yj g'ctgc'cuuguuf "kp'Y guvgtp'Dqvcplecn'  
\*422; + " vq" r tqxkf g" c" j qo qi gpqwu' fcvugv' qh' xgi gvcvqp" wtku' cetquu" yj g" Uqwj gtp'  
Mqqr'cpqddkpi 'Tcpi g0''

Cm's wcf tcw'eqxgtgf "cp'ctgc'qh'622'o 4."o gcuwtkpi "42"o "d{"42"o 0''S wcf tcw'y gtg'gucdrkuj gf "  
cpf "cuuguuf "kp'ceeqtf cpeg'y kj "yj g'o gyj qf u'wugf "d{"F RcY "kp'uwxg{"u'qh'kqpuvqpg'tcpi gu'kp"  
yj g"[ ki ctp'Etcvq "gd 0'O ctng{"( "F kmq"422: =0' gkuupgt'gv'c'0'422; +0''Cv'ngcu'5"s wcf tcw"  
y gtg' uwxg{gf " y kj kp" gcej " xgi gvcvqp" wkv' kpkkcm{" kf gpv'kkgf " Itqo " cgtkcn' r j qvqi tcr j {"  
kpvgr tgc'vqp0''Vj g's wcf tcw'y gtg'qtkgpvcvgf "pqt yj /uqwj lgcuv'y guv'y j gtg'r qukdrg."y kj "yj g"  
dgctkpi u'qh'gcej "ukf g'tgeqtf gf "hqt'cp{"s wcf tcw'yj cv'eqwf "pqv'dg'gucdrkuj gf "kp'yj ku'hcuj kq0''

Cm'xcuewrt'hmte'vcz'vj cv'y gtg'xkuwcm'kf gpv'kkgf'y kj kp'gcej "s wcf tcw'y gtg'tgeqtf gf 0''Cv'  
ngcu'3"tghgtgpeg'ur geko gp'qh'gxgt{"vczqp'gpeqwpvgf "Itqo "cm's wcf tcw'y cu'eqmgevgf "hqt"  
xgthkcvqp'cpf "kf gpv'kkgf'r wtr qugu0''

Vj g'hmjy kpi 'kphqto cvqp'y cu'tgeqtf gf "cv'gcej "s wcf tcw'

- Rgtuqppgn="
- Wpks wg's wcf tcv'pwo dgt="
- F cvg'qh'uwxg{"="
- I RU'eqqtf kpcvgu'\*I F C; 6="
- Ukg'r j qvqi tcr j ="
- Vqr qi tcr j {"kpenf kpi 'rcpf hqto "v'r g'cpf "cur gev="
- Uqkn'eqmwt"cpf "v'r g" kpenf kpi "yj g'r tgupeg"qh'cp {"tqen'qwetr r kpi "cpf "uwtceg"  
uqpgu="
- Xgi gvcvqp'eqpf kkp'\*Mgi j gt {"\*3; ; 6+."f kur r {gf "kp'Cr r gpf kz "H"
- Cr r tqzko cvg'vko g'ukpeg'htg="
- Rtgupeg'qh'f kuwtdcpeg'\*h'cp {"="
- Rgtegpvi g'hqkci g'eqxgt "hqt'gcej "vczqp="cpf "
- J gli j v\*o +\*hqt'gcej "vczqp."gzemf kpi 'enko dgtulegtkcn'uj twdu+0'

Cf fklqpcn'hmte'vcz'y gtg'cnuq'tgeqtf gf "qr r qtwpkulecm{"kp'yj g'Uwf {"Ctgc"xlk"cu'ugctej "  
ctqwpf "yj g'i gpqtcn'xlkpkv{"qh'gcej "s wcf tcw."cpf "f wtkpi "vcxgtugu"qp'hqyv'dgy ggp"s wcf tcw"  
\*Hki wtg'7+0''

O cr r kpi 'pqvu'qh'xgi gvcvqp'wkv'dqwpf ctkgu'cpf "f kutkdwkqp'y gtg'cnuq'vcngp'y j krg'vcxgtukpi "  
qp'hqyv'cpf "d{"xgi keng0''Vj ku'y cu'vq'ckf "kp'o cr r kpi 'r qn{i qpu'qh'xgi gvcvqp'wkv'yj cv'y gtg'pqv'  
cmqecvgf "s wcf tcw0''P qv'cm'xgi gvcvqp'wkv'r qn{i qpu'tgegxgf "s wcf tcw."cu'uqo g'r qn{i qpu'  
eqwf "dg'eqphk'gpv'cmqecvgf "vq"cxgi gvcvqp'wkv'wukpi "c'eqo dkpcvqp'qh'o cr r kpi 'pqvu'cpf "  
cgtkcn'r j qvqi tcr j 'kpvgr tgc'vqp0''

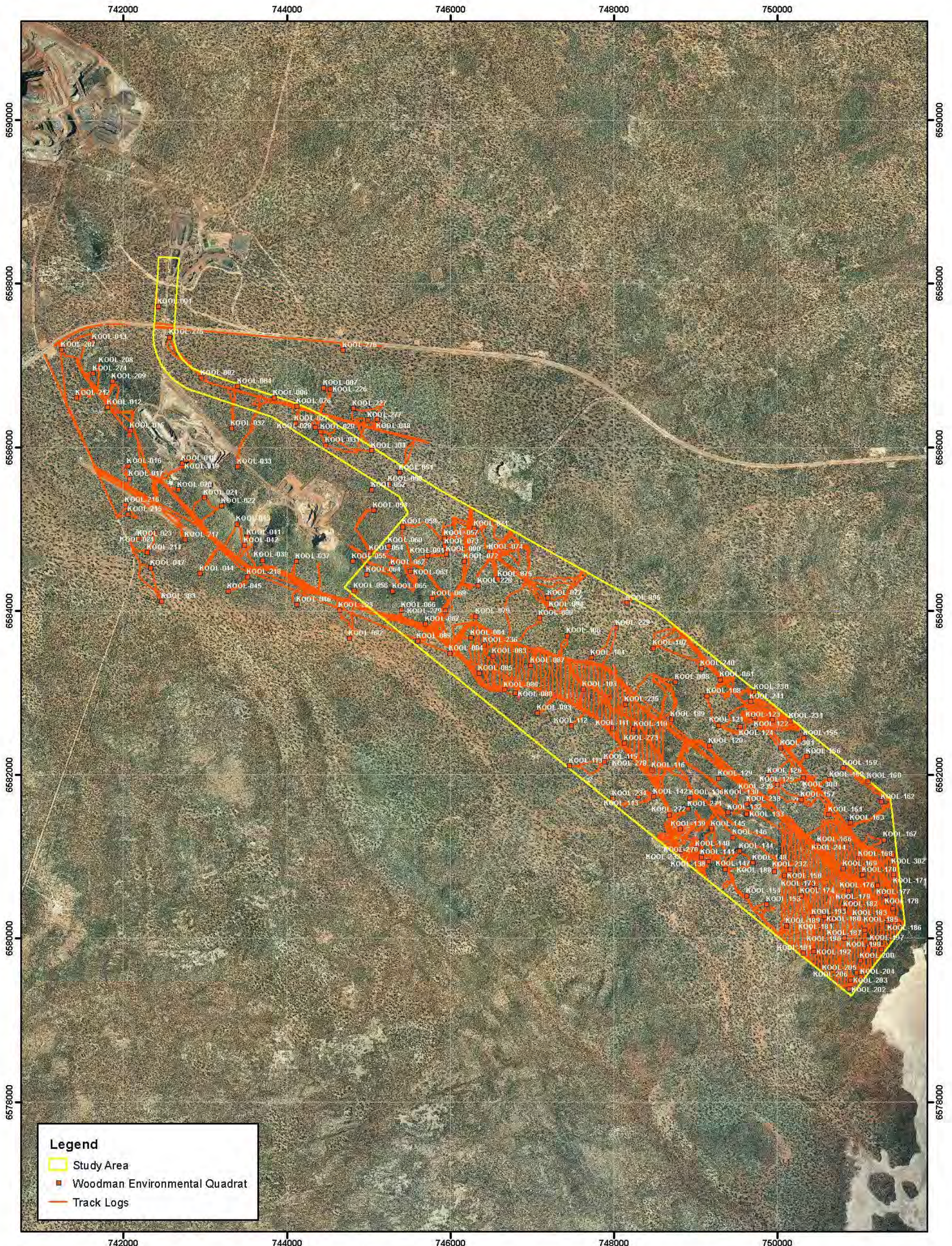
Ur gekhe."vcti gygf "ugctej kpi "hqt"eqpugt'xcvqp'uki pkkkcpv'hmte'vcz'kp'yj g'Uwf {"Ctgc"y cu'  
wpf gtvcngp'cu'r ctv'qh'yj ku'uwxg{."cu'y gm'cu'ugctej kpi "y j krg'vcxgtukpi "vq"cpf "dgy ggp"  
s wcf tcw0''K' r qr wcvkpu'qh'npqy p"eqpugt'xcvqp'uki pkkkcpv'hmte'vcz'y gtg'kf gpv'kkgf ."c"  
tgr tgupeg'vkg'eqmgevgf'qh'o cvgtkn'y cu'o cf g."cpf "yj g'cdwpf cpeg'cpf "ur cvkn'f kutkdwkqp"  
\*wukpi "j cpf "j grf "I cto kp" I RU' eqqtf kpcvgu+ "qh' kpf kxkf wenu" y kj kp" gcej "r qr wcvkqp" y cu'

tgeqtf gf "y j gtg'r quukdng0"Cwgo r u'y gtg"o cf g"vq"ugctej "cu"o cp { "ctgcu"cu'r quukdng"qh"j cdkcv"  
f ggo gf "cr r tqr tkvg"ht"eqpugtxcvqp"uki pkhecpv'hmtc0"Cm'ctgcu'tcxgtugf "kp"vj g"Uwf { "Ctgc"  
ctg'r tgugpvf "cu'tcentiqi u'qp"Hi wtg'70'  
"

Cu"c"uki pkhecpv'co qwpv'qh"ugctej kpi "ht"eqpugtxcvqp"uki pkhecpv'hmtc"j cu'r tgxlqwn { "dggp"  
wvf gtvcngp"kp"vj g"Uwf { "Ctgc" \*Q0'Y guvgtp"Dqvcplecn'4229/422: "wpr wdrukj gf "f cvc="Y guvgtp"  
Dqvcplecn' 422; =" O ckc" 4235+." eqo r ngv" tg/egpuwu" qh" npqy p" r qr wcvkpu" qh' eqpugtxcvqp"  
uki pkhecpv'hmtc"wulpi "vj g"o gj qf "qwkpgf "cdqyg"y cu'pqv'eqpukf gtgf "pgeguuct { 0"C"xkuk"y cu"  
o cf g" vq" xgtkh { "vj g" gzkuvgpeg" qh" vj g" r qr wcvkpu" cpf "eqpho "vj cv" vj g" tgeqtf u" ceewtcvgn { "  
tghrgevgf "vj g" f kwtkdwkqp"cpf "cdwpcpeg"qh'vj g" kpf kxf wcu'r tgugpv0"K'vj g'r tgxlqwn { "eqmgevgf "  
f cvc"cr r gctgf "vq" dg"kpceewtcvg"qt"kpqo r ngv."hwtvj gt"egpuwu"qh'cf f kkpccn" kpf kxf wcu"y cu"  
wvf gtvcngp"wulpi "vj g"o gj qf "qwkpgf "cdqyg0'  
"



Cp { "r qr wcvkpu"qh"kvqf wegf "hmtc"kf gpwkhgf "kp"vj g"Uwf { "Ctgc"y gtg"uwtxg { gf "wulpi "vj g"  
uco g'o gj qf u'cu'wugf "ht'r qr wcvkpu"qh'eqpugtxcvqp"uki pkhecpv'hmtc"vcz0'  
"  
"  
"





**Legend**

- Study Area
- Woodman Environmental Quadrat
- Track Logs

 <p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>		<b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> <b>Study Area, Western Botanical Study Area</b> <b>Survey Quadrats and Track Logs</b>		Author: David Coultas	<b>Figure</b>  <span style="font-size: 2em; font-weight: bold;">5</span>
				WEC Ref: CNR13-02-01	
		Revision: A - December 2013		Filename: CNR13-02-01-f05.mxd	
				Scale: 1:40,000 (A3) Grid: MGA Zone 50	



3.4 PLANT COLLECTION AND IDENTIFICATION

Ur geko gpu'qh'cp { 'wpnpqy p'vczc'vj cv'y gtg'eqmgev'f 'y gtg'r tguugf 'hqt'rvgt'kf gpv'khec'v'kqp'cv'yj g'  
Y guvgt'p' Cwutcrkcp' J gtdctkwo 0' " K gpv'khec'v'kpu' y gtg' wpf gtvcngp' d { " g'zr g'kgpegf " dqvcpkxu'  
Hcpm'Qddgpu. " Dgy gc' Nqwf qp' c' pf " F cxkf " Eqwncu0' " Gzvgtpcn' g'zr gt wu'qh' r ct v'kwrc' t' hco k'kgu'qt'  
i gpgtc' y gtg' eqpuwngf 'hqt' cp { 'ur geko gpu' eqpukf gtgf 'vq' dg' qh'vcz' qpqo le' kp'vgt' gu0' "

Vczqp' p'qo gper'w'wtg' hqmqy u' Hqt cdcug' \*F RcY "4236d+ 'y kj " cm' pco gu' ej gengf " ci ckpuv' vj g'  
ewt' g'p'v' F RcY " O cz' f' cvdcug' v' q' gpw'wtg' vj g' k' x'crk' k'v' 0' " Vj g' eqpugt' x'cv'kqp' u'c'wu' qh' g'cej " vcz' qp'  
y cu' ej gengf " ci ckpuv' Hqt cdcug. 'y j lej 'r t'qxkf gu' vj g' o qu'w' r /vq/ f' cvg' l'phqto c'v'kqp' t'gi c'f' kpi 'vj g'  
eqpugt' x'cv'kqp' u'c'wu' qh' hqt c'vcz' k'p' Y guvgt'p' Cwutcrk0' "

Ur geko gpu'qh'kp'vgt' guv' k'pen'w'f' kpi " eqpugt' x'cv'kqp' u'ki p'k'hec'p'v' hqt c'vcz' " t'cpi g' g'z'v'p'uk'p'pu' qh'vcz' "  
c'pf " r' q'v'p'v'cn' p'gy "vcz' " y k'n' dg' x'q'we'j' gtgf " cv' vj g' Y guvgt'p' Cwutcrkcp' J gtdctkwo " cu' u'q'qp' cu'  
r t'c'v'k'cd'rg'0' " Vj g' ur geko gp' x'q'we'j' g' t'kpi " y k'n' dg' u'w' r' q'v'w'f' " d { " eqo r' ng'w'f' " Vj t'g'c'v'p'g'f' " c'pf "  
Rt'k'q'k'v' " Hqt c' T'gr' q't'v' Hqto u' \*VRT Hu+ u'wdo k'w'g'f' v'q' F RcY 0'

3.5 FLORISTIC ANALYSIS

S wcf tcv'f' cv' y cu' u'c'v'k'uec' m' { 'c'p'cn' u'g'f' v'q' f' v'g'to k'p'g' x'gi g'v'c'k'qp' v'p'ku. 'wukpi 'o g'v' q'f' u' u'ko k'rc' t'v'q'  
vj qu'g' w'ug'f' d { " O c'tng' { " ( " F k'm'p' \*422: +0' F cv' h'qto " cm'3; ; " s' wcf t'cu' g'uc'd'rikuj g'f' y cu' k'pen'w'f' g'f' "  
k'p' vj g' u'c'v'k'uec' n' c'p'cn' { u'ku0' "

U'c'v'k'uec' n' c'p'cn' { u'ku' y cu' eq'p'f' w'ev'g'f' " q'p' c' f' cv' o' c'v'k'z' " eqo r' k'g'f' " h'qto " vj g' s' wcf tcv'f' cv'. 'wukpi "355"  
r' g' t'g'p'p'k'n' x'c'ue'w'rc' t'vcz'0' " Gr j go g't'cn'vcz'c. " k'p'v'q'f' w'ev'g'f' "vcz'c' c'p'f' " ukpi r'g'v'p'pu' \*vcz'c' t'g'eq't'f' g'f' " q'p'n' "  
q'p'eg' k'p' vj g' s' wcf tcv'f' cv'g'v' y gtg' g'z'ew'f' g'f' " h'qto " vj g' c'p'cn' { u'ku0' " Vj g' r' t'g'ug'p'eg' qh' g' r j go g't'cn'vcz'c "  
ku' u't'q'pi n' " k'p' h'w'g'p'eg'f' " d { " u'g'c'u'q'p'cn' t'c'k'p'c'm' y kj " h'gy g' t'vcz'c' c'p'f' " k'p'f' k'k'f' w'c'u' qh' g' r j go g't'cn'vcz'c "  
w'uw'c'm' " r' t'g'ug'p'v' h'qmqy kpi " d'g'm'y /c'x'g't'c'i g' t'c'k'p'c'm'0' " Vj g' t'g'o q'x'c'n' qh' g' r j go g't'cn'vcz'c " h'qto " vj g' "  
f' cv' o' c'v'k'z' " ku' eq'p'uk'v'g'p'v' y kj " F RcY u' u'w't'x'g' { u' qh' k'q'p'u'v'q'p'g' t'c'p'i gu' k'p' vj g' l' k'i c't'p' " E't'c'v'q'p' \*g'd' 0' "  
O g'k'u'p'g't' g'v'c' r'0'422; + " c'p'f' c'm'y u' h'q't' k'o r' t'q'x'g'f' " eqo r' c't'k'u'q'p' y kj " f' cv' " eq'm'g'ev'f' " f' w'k'p'i " u'g'c'u'q'p'u' "  
y j g't'g' g' r j go g't'cn'vcz'c' y gtg' p'q'v' r' t'g'ug'p'0' " k'p'v'q'f' w'ev'g'f' "vcz'c' y gtg' g'z'ew'f' g'f' " cu' vj g' k'f' k'v'k'w'k'p'u' "  
c't'g' i g'p'g't'c'm' " f' g'h'p'g'f' " d { " vj g' r' t'g'ug'p'eg' qh' f' k'u'w't'd'c'p'eg' \*g'd' 0' e'rg'c't'k'p'i . " c'p'ko c'n'o' q'x'g'o g'p'v' t'c'v'j g't' "  
vj c'p' r' c't'v'w'rc' t' j c'd'k'c'v' v' r' gu'0' " Ukpi r'g'v'p'pu' y gtg' t'g'o q'x'g'f' " k'p' n'p'g' y kj " c'p'cn' { u'gu' w'p'f' g't'vc'ng'p' " cu' "  
r' c't'v' qh' F RcY u' u'w't'x'g' { u' qh' d'c'p'f' g'f' " k'q'p'u'v'q'p'g' t'c'p'i gu' k'p' vj g' l' k'i c't'p' " E't'c'v'q'p' \*g'd' 0' O c'tng' { " ( " "  
F k'm'p' "422: + " O g'k'u'p'g't' g'v'c' r'0'422; + " y kj " O c'tng' { " ( " F k'm'p' \*422: + " p'q'v'k'p'i " vj c'v' ukpi r'g'v'p'pu' "  
r' t'q'x'k'f' g'f' " r'k'w'g' " k'p' h'qto c'v'k'qp' k'p' vj g' k'f' c'v'c'ug'0' " M'p'q'y p' c'p'f' " r' w'c'v'k'g' j { d't'k'f' u' y gtg' " c'n'q' " g'z'ew'f' g'f' "  
h'qto " vj g' " c'p'cn' { u'ku' \*g'z'eg' r' v' h'q't' r' w'c'v'k'g' j { d't'k'f' u' " k'p'x'q'k'k'p'i " O w'i c' "vcz'c' " o' " u'g'g' " U'g'ev'k'qp' "60+0' "  
J { d't'k'f' u' " c't'g' " i g'p'g't'c'm' " r' t'g'ug'p'v' cu' k'u'q'v'g'f' " k'p'f' k'k'f' w'c'u' c'p'f' " c'v' u'ec'w'g't' g'f' " r'q'ec'v'k'p'pu' q'p'n' . " c'p'f' " cu' "  
vj g' l' " c't'g' " i g'p'g't'c'm' " qh' w'p'np'q'y p' q't' r' t'g'u'wo g'f' " q't'k'i k'p. " k'v' y cu' eq'p'uk'f' g't'g'f' " c'r' r' t'q'r' t'k'v'g' v'q' " g'z'ew'f' g' "  
vj go " i k'x'g'p' vj k'u' w'p'eg't' v'c'k'p'v' 0' "

C "pwo dgt' qh' r' g't'g'p'p'k'n'vcz'c' vj cv' h'qmqy g't' g'r j go g't'c'm' " y gtg' " c'n'q' " g'z'ew'f' g'f' " h'qto " vj g' " c'p'cn' { u'ku0' "  
U'we'j' "vcz'c' " y j k'g' " g'c'uk'n' " k'f' g'p'v'k'hec'd'rg' " cv' u'qo g' " uk'gu' y j g'p' h'qmqy g't'k'p'i " o' c'v'g't'k'n'y cu' r' t'g'ug'p'v' " eq'w'f' "  
p'q'v'd'g' " eq'p'k'f' g'p'w'f' " k'f' g'p'v'k'h'g'f' " cv' c'n' i'uk'gu' d'g'ec'w'ug' " u'we'j' " o' c'v'g't'k'n'y cu' c'd'ug'p'v'q't' " k'p' r' q'q't' " eq'p'f' k'k'q'p'0' "  
Vcz'c' k'p' vj k'u' ec'v'g'i q't' " k'pen'w'f' g'f' " i g'q'r j { v'k' " ur g'el'gu' " u'we'j' " cu' " Vj { u'c'p'q'w'u' " o' c'p'i r'g'uk'c'p'w'u. " c'p'f' "  
g'r j go g't'c'm' " h'qmqy g't'k'p'i " ur g'el'gu' " u'we'j' " cu' o' go d'g'tu' qh' vj g' i g'p'w'u' " Cw'ut' q'uk'c'0' " H'w'v'j g't' r' g't'g'p'p'k'n' "  
vcz'c' " y gtg' " c'n'q' " t'g'o q'x'g'f' " h'qto " vj g' " c'p'cn' { u'ku' " y j g't'g' " k'f' g'p'v'k'hec'v'k'qp' " y cu' " w'p'er'g'c't' " f' w'g' " v'q' " r' q'q't' "  
c'x'c'k'c'd'rg' o' c'v'g't'k'n' k'p' vj g' h'g'f' 0' "

Cm'vcz'c' t'g'o q'x'g'f' " h'qto " vj g' u'c'v'k'uec' n' c'p'cn' { u'ku' c't'g' r' t'g'ug'p'v'g'f' " k'p' C'r r' g'p'f' k'z' " I 0'

"

Emuukhcevkqp"cpn{uku'y cu'eqpf wevgf "wulpi "RCVP "\*X5Q5+\*Dgrdkp"3; ; +0"Vj g"Dtc{/Ewtku' eqghhekgpv'y cu'wugf "vq"i gpgtcvg"cp"cuuqekvkqp"o cvtkz"htq"y g"emuukhcevkqp"cpn{uku' "Vj ku' cuuqekvkqp"o cvtkz"eqpukvgf "qh'r cky kug"eqghhekgpvu'qh'uko krc'kkgu'dgy ggp's wcf tcw'dcugf "qp" hqt'k'k'f'cvc0"Ci i mqo gtcv'xg."j kgtctej kecn'enuwgtkpi ."wulpi "hgz'kdr"WRI O C "\*E?/2Q+."y cu' wugf "vq"i gpgtcvg"v'czqp"cpf "s wcf tev'emuukhcevkqp"\*Upgcj "( "Uqncn'3; 95+0"C"y q/y c{"vcdng" qh'y g"vzqp"cpf "s wcf tev'o cvtkz"y cu'r tqf wegf ."y kj "y g"o cvtkz"uqtvgf "lpvq"i tqw u'i gpgtcvgf " htqo " y g" v'czqp" cpf " s wcf tev' emuukhcevkqp0' " Kpf kecvqt" ur gekgu" cpn{uku' \*R F XCN+ " y cu' eqpf wevgf " wulpi " RE/Qt " \*O eEwpg" ( " O ghhtf " 3; ; + " wulpi " y g" o gy qf " qh' F wlt gpg" ( " Ngj gpf tg"\*3; ; 9+0"Vj g'R F XCN"o gcuwtgu'y gtg" wugf "vq" f gvgto kpg"y g'lpf kecvqt"ur gekgu"htq" gcej "xgi gvcvkp"wpk'cpf "c"O qpvg'Ectm'r gto wcvkqp'v'guy' cu'wugf "vq"v'guy'htq"y g'uki p'k'kecpeg" qh'y g'lpf kecvqt"ur gekgu0'

3.6 ADEQUACY OF SURVEY

Vj g"Uwf {"Ctgc"eqxgtu"cr r tqzko cvgn{ "3.936"j c."y kj "375"s wcf tcw"guvdrkuj gf "kp"y g"Uwf {" Ctgc0"Cu"geej "s wcf tev'j cu'cp"ctgc"qh'2Q6"j c."c"v'v'cn'ctgc"qh'8Q"j c"y cu'uco r ngf "f k'gevn{ "d {" s wcf tcw." eqttgur qpf kpi " vq" cr r tqzko cvgn{ " 2Q6" ' " qh' yj g" Uwf {" Ctgc0' " S wcf tcw" y gtg" guvdrkuj gf "kp"cm'xgi gvcvkp"wpku"cu'f luegtpcdrng"d {" kpk'cn'cgt'kn'r j q'qi tcr j "k'v'gtr t'gvcvkp" \*ugg"Ugevkp"5Q. "5Q+."dqj "vq"cf gs wcvgn{ "uco r ng"xctkcvkqp"kp"xgi gvcvkp"y tqwi j qw'v'j g"Uwf {" Ctgc."cpf "vq"gpwug'cf gs wce {"qh'uco r r'kpi "htq'x'cuw'xt'r r'p'v'v'czc0'

Vq'r tqxkf g"cp"lpf kecvkqp"qh'yj g"cf gs wce {"qh'yj ku'uwtxg {"ur gekgu"ctgc"ewtxgu"htq"y ku'uwtxg {"qh' yj g"Uwf {"Ctgc"cu"cy j qrg."cpf "htq"lpf k'k'f wcn'xgi gvcvkp"wpku."y gtg'r tqf wegf "wulpi "RE/Qt " \*X"6+\*O eEwpg"cpf "O ghhtf "3; ; +0"Vj g"ur gekgu"ctgc"ewtxgu"y gtg"i gpgtcvgf "wulpi "cm'p'cv'xg" vzc"\*dqj "cppwcn'cpf "r gt gppkcn'tgeqtf gf "y kj kp"geej "s wcf tev0"Vj gug'i kx'g'uo g"lpf kecvkqp"cu" vq"y j gj gt"uw'hekgpv"s wcf tcw"j cxg"dgpp"uwtxg {"gf "vq" uco r ng"y g"wpf kuwtdgf "xgi gvcvkp0" J qy g'xgt."cu" yj g"i gpgtcvkqp"qh"ur gekgu"ctgc" ewtxgu" k'p'nm'f'gu" s wcf tev' f'cvc" qpn{ ."cpf "pqv' qr r qt'wp'k'k'ecm{/tgeqtf gf "vzc."y g'lpf kecvkqp"qh'uw'hekgpe {"qh'uwtxg {"r tqxkf gf "ku'eqpukf gtgf " vq"dg"eqpugt'x'cv'xg0"Vj g"ur gekgu"ctgc"ewtxgu"ctg'r t'gugp'vgf "kp"Cr r gpf kz "J 0"

Hq'my kpi "y g"r tqf wevkqp"qh"ur gekgu"ctgc"ewtxgu."ur gekgu"ceewo wcvkqp"ecre'wcvkqp"htq"y g" Uwf {"Ctgc"cu"cy j qrg."cu'y gn'cu'lpf k'k'f wcn'xgi gvcvkp"wpku"y gtg'wpf gt'v'ngp" wulpi "RE/Qt ." w'k'k'k'k'pi "y g"Ej cq/4" guvko cvqt "htq"ur gekgu"tlej p'guu"\*Ej cq"3; ; 9+."c"o gcuwtg"qh'cf gs wce {"qh' uwtxg {"0" Cp'qj gt "cf gs wce {"qh'uwtxg {"o gcuwtg" f'g'x'g'r gf "d {"O wmg't/F qo d'k'u'cpf "Gmgpdgti " \*3; 96+."y j q'awi i guv'y cv'c"ew/qh'r q'kp'v'o ki j v'dg'y j gp" c"32' "k'p'et'g'cug"kp"s wcf tcw'uwtxg {"gf " t'guw'u'lp" c"7' " \*qt'rguu+"k'p'et'g'cug"kp"ur gekgu"tgeqtf gf ."y cu'cuq" w'k'k'k'k'gf 0"

Wulpi "y g"Ej cq/4" guvko cvqt."y g"tgeqtf gf "pwo dgt"qh"ur gekgu"ku"gs w'x'cngp'v'vq": : 0" "qh'yj g" guvko cvgf "ur gekgu"tlej p'guu"kp"y g"Uwf {"Ctgc"cu"cy j qrg0" Hqt"lpf k'k'f wcn'xgi gvcvkp"wpku."y g" Ej cq/4"x'cn'w'gu"xct'k'gf "htqo "87Q" "vq"; 8Q " ."y kj "mqy gt"x'cn'w'gu"eqttgur qpf kpi "vq"xgi gvcvkp" wpku"y kj "c"r'ko k'gf "gz'v'p'lp"y g"uwf {"ctgc="d'g'ecwug"qh'yj ku."y g'gug"xgi gvcvkp"wpku"t'g'g'k'g'gf " hgy gt"s wcf tcw0"Kpf k'k'f wcn'xgi gvcvkp"wpk'Ej cq/4"x'cn'w'gu"ctg'r t'gugp'vgf "kp"Cr r gpf kz "J 0"

Hqt'yj g"Uwf {"Ctgc"cu"cy j qrg."y g"pwo dgt"qh's wcf tcw'guvdrkuj gf "kp"y g"Uwf {"Ctgc"uc'v'k'k'g'u' yj g"et'k'g't'k'p"uwi i guvgf "d {"O wmg't/F qo d'k'u'cpf "Gmgpdgti "3; 96+."y kj "cp"k'p'et'g'cug"qh'30'9" " kp"ur gekgu"tgeqtf gf "r gt" k'p'et'g'cug"qh'32" "qh's wcf tcw"\*Cr r gpf kz "J +0"Vj g"pwo dgt"qh's wcf tcw" guvdrkuj gf "kp"xgi gvcvkp"wpku"3."4."5."7."8."; .32."33."35."36"cpf "38"r'k'ngy kug"o g'v'y ku'et'k'g't'k'p" \*Cr r gpf kz "J +0"Vj g"pwo dgt"qh's wcf tcw'guvdrkuj gf "kp"xgi gvcvkp"wpku"6"cpf "37" f'k' "p'q'v'o g'g'v' yj ku' et'k'g't'k'p" \*Cr r gpf kz "J =" cu" htq" yj g" Ej cq/4" guvko cvqt "x'cn'w'gu" q'w'k'p'gf "cd'q'x'g." yj g'gug"

xgi gvcvkp'wpku'j cxg'c'no kgf "gz vgpv'lp"vj g"Uwf { "Ctgc."cpf "j gpeg"y gtg"uco r ngf "y kj "hgy gt" s wcf tcu0"

3.7 VEGETATION UNIT MAPPING AND DESCRIPTION

Vj g"vzqp"cpf "s wcf tcv'ercukhcevkp"i gpgtcvfg "htqo "vj g"ucvukecni'cpcn'uku'qh's wcf tcv'f cvc" y cu"wugf "lp"eqplwpevkp"y kj "cgtkcn'rj qqi ter j { "lpvgr tgvvkp"cpf "hgrf "pqvgu"vengp"f wtkpi" vj g"uwxg{u"vq"fgxgr "xgi gvcvkp"wpk'o cr r lpi "r qn{i qp"dqwpf ctkgu0"Vj gug"xgi gvcvkp"wpk' r qn{i qp"dqwpf ctkgu"y gtg"vj gp'f ki kkgf "wukpi "I gqi ter j k"Kphqto cvkq"U{uvgu "I KU+"uqhw ctg0"

Xgi gvcvkp"wpk'f guetk vkpu"j cxg"dggp"cf cr vgf "htqo "vj g"P cvkpcn'Xgi gvcvkp"Kphqto cvkq" U{uvgu "P XKU+"C wntckcp"Xgi gvcvkp"C wtkdwg"O cpwcn'Xgtukp"80"\*GUECXK4225+0"Vj ku" o qf gn'hqny u'pcvkpcn'ci tggf "i wkf grkpu"vq"f guetkdg"cpf "tgr tvgpv"xgi gvcvkp'wpku."uq"vj cv" eqo r ctdrg"cpf "eqpukvgpv"f cvc"ku"r tqf wegf "pcvkp/y kf g0"K'o wuv"dg"pqvgf "vj cv"vj g"P XKU" u{uvgu "wkrkugu"xgi gvcvkp"f guetk vkpu"f gtxgf "htqo "utwewtci'ej ctcevgtkukcu'qh'vj g"lpf kxf wcn' eqo o wpk{ "wpku."y j krg"vj g"xgi gvcvkp"wpku"r tvgpvvf "lp"vj ku"tgr qtv'j cxg"dggp"f gtxgf "htqo " cpcn'uku'qh'ukg"htkukcu."gzewf lpi "cp{ "utwewtci'eqo r qpgp0"Xgi gvcvkp"wpk'f guetk vkpu" vj gthqtg"o c{ "lpenmf g"o wkr ng"utwewtci'v'r gu"y kj kp"cp{ "i kxp"htkukcu"wpk0"Eqpukf gtkpi " vj g"ghgev'qh'f kwtdcepeg'hcevqu"uwej "cu'htg"qp"xgi gvcvkp"utwewtg."vj ku'cr r tqcej "ku'f guki pgf " vq"r tqxf g"o cr "qh"xgi gvcvkp'wpku"vj cv'tghgev'vzqp"eqo r qukvkq"cpf "vj g"lphwgegu'qh'vj g" r j { ulecn'cpf "ej go kcn'gpxkqpo gpv'tcvj gt"vj cp'ukg"j kvqt { 0"

Hqt "vj g"r wtr qugu'qh'vj ku"tgr qtv."k'ku"eqpukf gtxgf "vj cv'c"xgi gvcvkp'wpk'ku"gs wxcrgpv"vq"o c"P XKU" uwd/cuqekcvkq"cu"f guetkdgf "lp" GUECXK\*4225+0"Eqo o qp"vzc"y kj kp"geej "utcwu "y gtg" i gpgcm{ "f hkgf "cu'vzc"vj cv'qewtfg "lp"i tgcvt "vj cp"qpg/vj kf "qh's wcf tcu"guvdrkj gf "y kj kp" c"r ct'wewt" xgi gvcvkp"wpk' "j qy gxgt." vj ku" xctkgf "urki j vn" f gr gpf lpi "qp" vj g"pwo dgt" qh" s wcf tcu="vj gug"o c{ "lpenmf g"vzc"pqv'lp"vj g"xgi gvcvkp'wpk'f guetk vkp."cu"vj g"xgi gvcvkp'wpk' f guetk vkp"ku'dcugf "qp"f qo kpcpeg"y kj kp"geej "utcwu ."cu'y gm'cu"vj g"htg wgepe{ "vj cv'c"vzqp" y cu'tgeqtf gf "y kj kp"geej "xgi gvcvkp'wpk0"

3.8 VEGETATION CONDITION MAPPING

Xgi gvcvkp"eqpf kvkq"y cu'tgeqtf gf "cv'cm's wcf tcu."cpf "cnuq"qr r qtwpkukecm{ "y kj kp"vj g"Uwf { " Ctgc"y j gtg"ctgcu"qh'f kwtdcepeg"vq" xgi gvcvkp"y gtg"pqvgf "g0"y ggf "kphgucvkpu."ctgcu"qh" j gcx{ "i tc| lpi ."o kpgcn'gzr mtcvkq+0"Xgi gvcvkp"eqpf kvkq"y cu'f guetkdgf "wukpi "c"xgi gvcvkp" eqpf kvkq" uecr" cf cr vgf "htqo "Mgk j gt { "3; ; 6+"vj cv"y cu" wkrkugf "d{ "F RcY "f wtkpi "tgegpv" uwxg{u"lp" vj g" Gtgo cgcp" Dqvcplecn' Rtqxlpeg." uwej "cu" vj g" Rkrdtc" Dkqf kxgtukv{ "Uwtxg{ " \*O eMgp| kg"gv'cr0'422; +0"Vj ku"cf cr vgf "Mgk j gt { "3; ; 6+"uecr"ku"r tvgpvvf "lp"Cr r gpf kz"HO" Xgi gvcvkp" eqpf kvkq" r qn{i qp" dqwpf ctkgu" hqt" vj g" Uwf { "Ctgc" y gtg" f gxgr gf "wukpi "vj ku" kphqto cvkq"lp"eqplwpevkp"y kj "cgtkcn'rj qqi ter j { "lpvgr tgvvkp."cpf "y gtg"f ki kkgf "cu"htq" xgi gvcvkp"o cr r lpi "r qn{i qp"dqwpf ctkgu0"

3.9 SURVEY LIMITATIONS

Vcdrg"7"r tvgpvu"vj g"no kcvkpu"qh'vj g"htc"cpf "xgi gvcvkp"uwxg{"qh'vj g"Uwf { "Ctgc"lp" ceeqtf cpeg"y kj "GRC"i wkf cpeg'Uvcgo gpv'P q073"GRC"4226+0"



Table 5: Limitations of the Flora and Vegetation Survey of the Study Area

Limitation	Comment
Ngxgn' qh' uwtxg{0	Ngxgn'4' F gvc' krgf "Uwtxg{<" Vj g' f gvc' krgf "hgrf "uwtxg{ "eqo o gpegf "kp' Cwi wu' 4235." cv' yj g' dgi kppkpi " qh' yj g' wuwn' r gcm' hny gt kpi " ugcupp' kp' yj g' Eqqr ctf lg' Tgi kqp." cpf "gz' wpgf gf "vq' Ugr vgo dgt "4235." ecr wtkpi "hqt kme" f cv' qxgt' yj g' gp' wkg' r gcm' hny gt kpi " ugcupp' " Kp' yj ku' ecug." yj g' Mqqr' cpqddkpi "Tcpi g." yj krg' j' c' xkpi "vcz' yj cv' hny gt' cv' f' k' hgt' gpv' wko gu' qh' yj g' {gct. "eqwf' dg' cf gs wcvgn' "uwtxg{ gf "f wtkpi "ku' r gcm' hny gt kpi "r g' tkqf " hqmy kpi " tclphcm' kp' yj g' r' t' g' x' k' wu' ugx' g' t' c' n' o' q' p' y' u' o' " Uwtxg{ "kp' o' wnk' rg' ugcupu' y' cu' pqv' eqpukf' gtgf' "pgeguuct { "cu' yj ku' uwtxg{ "d' wkn' w' r' q' p' r' t' g' x' k' wu' uwtxg{ u' qh' yj g' Uwf { " Ctgc' yj lej " j' cf " dggp' w' p' f' g' t' c' n' g' p' f' wtkpi " q' y' g' t' ugcupu. " y' k' j' " y' j' g' t' guw' w' qh' yj qug' r' t' g' x' k' wu' uwtxg{ u' l' p' e' q' r' t' c' v' g' f' "kp' v' y' j' ku' t' g' r' q' t' v' 0' " T' g' r' i' e' c' v' g' f' " s' w' c' f' t' c' w' u' y' g' t' g' " g' u' c' d' r' k' u' j' g' f' " kp' g' e' j' " r' m' p' v' e' q' o' o' w' p' k' v' " kp' yj g' Uwf { " Ctgc' 0' "
Eqo r g' v' p' e' { l' g' z' r' g' t' k' p' e' g' " qh' yj g' eqpuw' n' c' p' v' u' " e' c' t' t' { k' p' i' " q' w' " yj g' uwtxg{0	Ugpkqt' r' g' t' u' q' p' p' g' n' w' p' f' g' t' c' n' k' p' i' " yj g' uwtxg{ " j' c' x' g' " j' c' f' " g' z' r' g' t' k' p' e' g' " kp' eqpf' w' e' k' p' i' " u' k' o' k' r' e' t' " c' u' g' u' o' g' p' v' u' " k' p' e' n' f' k' p' i' " c' u' g' u' o' g' p' v' u' " kp' yj g' u' k' o' k' r' e' t' " O' w' e' j' k' u' q' p' " T' g' i' k' a' p' 0' " U' g' p' k' q' t' " r' g' t' u' q' p' p' g' n' " r' t' a' x' k' f' g' f' " i' w' k' c' p' e' g' " v' q' " n' g' u' u' g' z' r' g' t' k' p' e' g' f' " d' q' v' c' p' k' u' u' y' t' q' w' i' j' q' w' y' j' g' uwtxg{ . ' y' j' g' t' g' p' g' e' g' u' a' c' t' { 0' "
Ueqr g' " h' n' q' t' c' n' i' t' q' w' u' " yj cv' y' g' t' g' u' c' o' r' r' g' f' " u' q' o' g' " u' c' o' r' r' k' p' i' " o' g' y' q' f' u' " p' q' v' " c' d' r' g' " v' q' " d' g' " g' o' r' n' q' { g' f' " d' g' e' c' w' u' g' " q' h' " e' q' p' u' t' c' l' p' u' A' "	Cm' xcuewct' i' t' q' w' u' " yj cv' y' g' t' g' r' t' g' u' g' p' v' f' wtkpi " yj g' f' g' v' c' k' r' g' f' " uwtxg{ " y' g' t' g' u' c' o' r' r' g' f' 0' P' q' " e' q' p' u' t' c' l' p' u' i' " r' t' g' x' g' p' v' g' f' " c' r' r' t' q' r' t' k' e' v' g' " u' c' o' r' r' k' p' i' " v' e' j' p' l' s' w' g' u' " * s' w' c' f' t' c' v' g' u' c' d' r' k' u' j' o' g' p' v' " h' q' v' t' c' p' u' g' e' u' w' d' g' k' p' i' " g' o' r' n' q' { g' f' 0' "
Rtqr q' t' w' k' p' " qh' h' n' q' t' c' " k' f' g' p' v' k' h' g' f' . " t' g' e' q' t' f' g' f' " c' p' f' k' i' t' " e' q' n' g' e' v' g' f' 0' "	C' j' k' i' j' " r' t' q' r' q' t' w' k' p' " qh' r' g' t' g' p' p' l' c' n' x' c' u' e' w' a' c' t' " v' c' z' c' " y' g' t' g' t' g' e' q' t' f' g' f' " d' c' u' g' f' " q' p' " yj g' k' p' v' g' p' u' k' v' " c' p' f' " o' g' y' q' f' " qh' uwtxg{ 0' " C' " o' q' f' g' t' c' v' g' " v' q' " j' k' i' j' " r' t' q' r' q' t' w' k' p' " qh' g' r' j' g' o' g' t' c' n' x' c' u' e' w' a' c' t' " v' c' z' c' " y' g' t' g' t' g' e' q' t' f' g' f' " d' c' u' g' f' " q' p' " yj g' k' p' v' g' p' u' k' v' " c' p' f' " o' g' y' q' f' " qh' uwtxg{ . " c' p' f' " d' g' r' y' / c' x' g' t' c' i' g' " * D' w' t' g' c' w' " qh' " O' g' v' g' t' q' t' q' n' i' { " 4235 c' + " t' c' l' p' h' e' m' " r' t' k' q' t' " v' q' " e' q' o' o' g' p' e' g' o' g' p' v' " qh' uwtxg{ " * u' g' g' " V' k' o' k' p' i' l' y' g' c' v' j' g' t' l' u' g' c' u' a' p' l' e' { e' n' g' " d' g' r' y' - 0' " C' m' x' c' u' e' w' a' c' t' " v' c' z' c' " t' g' e' q' t' f' g' f' " j' c' f' " c' v' " n' g' c' u' v' " 3' " t' g' h' t' g' p' e' g' " u' r' g' e' k' o' g' p' " e' q' n' g' e' v' g' f' . " y' k' j' " u' r' g' e' k' o' g' p' u' k' f' g' p' v' k' h' g' f' " c' v' yj g' Y' g' u' n' g' t' p' " C' w' u' t' c' n' c' k' p' " J' g' t' d' c' t' k' w' o' 0' " C' f' g' s' w' c' e' { " qh' uwtxg{ " o' g' c' u' w' t' g' u' k' p' f' l' e' c' v' g' " c' " j' k' i' j' " r' g' t' e' g' p' v' c' i' g' " * : 0' + " qh' v' c' z' c' " g' z' r' g' e' v' g' f' " v' q' q' e' e' w' " k' p' " yj g' Uwf { " C' t' g' c' " y' c' u' t' g' e' q' t' f' g' f' " * E' j' c' q' / 4' " g' u' n' k' o' c' v' a' t' + " c' p' f' " yj g' p' w' o' d' g' t' " qh' s' w' c' f' t' c' w' u' g' u' c' d' r' k' u' j' g' f' " k' p' " yj g' Uwf { " C' t' g' c' " u' c' v' k' u' h' g' u' " yj g' e' t' k' s' g' t' k' a' p' " u' w' i' g' u' n' g' f' " d' { " O' w' e' m' g' t' / F' q' o' d' q' k' u' c' p' f' " G' n' g' p' d' g' t' i' " * 3; 96 + " y' k' j' " c' p' " k' p' e' t' g' c' u' g' " qh' 30' 9' " " k' p' " u' r' g' e' k' u' t' g' e' q' t' f' g' f' " r' g' t' " k' p' e' t' g' c' u' g' " qh' 32' " " qh' s' w' c' f' t' c' w' u' 0' "
Uqwtegu' qh' k' p' h' q' t' o' c' v' k' a' p' " g' f' 0' r' t' g' x' k' w' u' { " c' x' c' k' r' e' d' r' g' " k' p' h' q' t' o' c' v' k' a' p' " * y' j' g' y' g' t' " j' k' u' v' t' k' e' " q' t' " t' g' e' g' p' v' " c' u' " f' k' u' k' p' e' v' i' t' q' o' " p' g' y' " f' c' v' c' 0' "	Uqwtegu' qh' k' p' h' q' t' o' c' v' k' a' p' " w' u' g' f' " k' p' e' n' f' g' f' " i' q' x' g' t' p' o' g' p' v' f' c' w' c' d' c' u' g' u' " F' R' c' Y' . " F' q' G' " c' p' f' " u' g' x' g' t' c' n' i' t' g' r' q' t' w' u' " c' p' f' " w' p' r' w' d' r' k' u' j' g' f' " f' c' v' " yj cv' e' q' l' p' e' k' f' g' " y' k' j' " yj g' Uwf { " C' t' g' c' 0' " I' q' q' f' " e' q' p' v' g' z' w' c' n' i' k' p' h' q' t' o' c' v' k' a' p' " h' q' t' " yj g' Uwf { " C' t' g' c' " y' c' u' c' x' c' k' r' e' d' r' g' " r' t' k' q' t' " v' q' " yj g' uwtxg{ 0' "
Vj g' " r' t' q' r' q' t' w' k' p' " qh' yj g' " v' c' u' n' i' c' e' j' k' e' x' g' f' " c' p' f' " h' w' v' j' g' t' " y' q' t' n' i' y' j' l' e' j' " o' k' i' j' v' d' g' " p' g' g' f' g' f' 0' "	Vj g' " Ngxgn' 4' " uwtxg{ " y' c' u' e' q' o' r' n' g' v' g' f' . " y' k' j' " yj g' uwtxg{ " k' p' e' n' f' k' p' i' " u' g' c' t' e' j' g' u' h' q' t' " e' q' p' u' g' t' x' c' v' k' a' p' " u' k' i' p' l' h' e' c' p' v' " h' n' q' t' c' " v' c' z' c' 0' " P' q' " h' w' v' j' g' t' " uwtxg{ " y' k' j' k' p' " yj g' Uwf { " C' t' g' c' " k' u' e' q' p' u' k' f' g' t' g' f' " p' g' e' g' u' a' c' t' { 0' " "
Vlo kpi ly gcvj gt l' u' g' c' u' a' p' l' e' { e' r' g' 0' "	Vj g' " h' g' r' f' " uwtxg{ " y' c' u' e' q' p' f' w' e' v' g' f' " k' p' " y' k' p' v' g' t' " I' u' r' t' k' p' i' . " e' q' t' t' g' u' r' q' p' f' k' p' i' " y' k' j' " yj g' q' r' w' o' w' o' " h' n' y' g' t' k' p' i' " r' g' t' k' q' f' " h' q' t' " yj g' " E' q' q' n' i' c' t' f' l' g' " T' g' i' k' a' p' 0' " Vj g' " h' g' r' f' " uwtxg{ " y' c' u' e' q' p' f' w' e' v' g' f' " I' t' q' o' " C' w' i' w' u' v' q' " U' g' r' v' g' o' d' g' t' " k' p' " 42350 " Y' j' k' u' v' yj k' u' uwtxg{ " f' k' " p' q' v' " k' p' e' n' f' g' " q' y' g' t' " ugcupu. " uwtxg{ " k' p' " q' y' g' t' " ugcupu' y' c' u' " p' q' v' " e' q' p' u' k' f' g' t' g' f' " p' g' e' g' u' a' c' t' { " c' u' " yj k' u' uwtxg{ " d' w' k' n' " w' r' q' p' " r' t' g' x' k' w' u' uwtxg{ u' qh' yj g' Uwf { " C' t' g' c' " y' j' l' e' j' " j' c' f' " d' g' g' p' " w' p' f' g' t' c' n' g' p' " f' wtkpi " q' y' g' t' " ugcupu. " y' k' j' " yj g' t' g' u' w' w' " qh' yj qug' " r' t' g' x' k' w' u' uwtxg{ u' l' p' e' q' t' r' q' t' c' v' g' f' " k' p' v' yj k' u' t' g' r' q' t' v' 0' " R' g' c' n' i' h' n' y' g' t' k' p' i' " ugcup' y' c' u' " e' q' p' u' k' f' g' t' g' f' " d' { " Y' q' q' f' o' c' p' " G' p' x' k' t' a' p' o' g' p' v' c' n' " v' q' " d' g' " o' q' f' g' t' c' v' g' . " y' k' j' " d' g' r' y' / c' x' g' t' c' i' g' " t' c' l' p' h' e' m' " * 87 (8) " o' o' " e' q' o' r' c' t' g' f' " v' q' " ; 9 (8) " o' o' " q' p' " c' x' g' t' c' i' g' - " * D' w' t' g' c' w' " qh' " O' g' v' g' t' q' t' q' n' i' { " 4235 c' + " q' x' g' t' " yj g' y' k' p' v' g' t' " o' q' p' y' u' " * O' c' { " 6 " C' w' i' w' u' v' 4234 + 0' " Vj k' u' " o' c' { " j' c' x' g' " c' h' h' e' v' g' f' " yj g' " h' n' y' g' t' k' p' i' " qh' r' g' t' g' p' p' l' c' n' " v' c' z' c' . " j' q' y' g' x' g' t' " yj k' u' f' k' " p' q' v' " e' c' w' u' g' " f' k' h' h' e' w' u' g' u' " k' p' " yj g' k' f' g' p' v' k' h' e' c' v' k' a' p' " qh' r' g' t' g' p' p' l' c' n' " v' c' z' c' 0' " Vj g' " p' w' o' d' g' t' " qh' g' r' j' g' o' g' t' c' n' " v' c' z' c' " t' g' e' q' t' f' g' f' " k' u' " w' p' r' k' n' g' n' " v' q' " j' c' x' g' " d' g' g' p' " c' h' h' e' v' g' f' " d' { " yj g' " d' g' r' y' / c' x' g' t' c' i' g' " t' c' l' p' h' e' m' " j' q' y' g' x' g' t' " c' d' w' p' f' c' p' e' g' " qh' g' r' j' g' o' g' t' c' n' " v' c' z' c' " k' u' " k' n' g' n' " v' q' " j' c' x' g' " d' g' g' p' " c' h' h' e' v' g' f' 0' "

Limitation	Comment
F kuwtdcpegu" *g0'0' hkg." hqqf." ceekf gpcr' j wo cp" kpvgtxgvpkq" gve0:" y j lej " chgevgf " tguwmu" qh' uwtxg{0'	P q"rko kcvkpu"tgrvxf "vq" f kuwtdcpeg"ctg"eqpukf gtgf "vq" j cxg"chgevgf "v j g" tguwmu"qh'v j g' uwtxg{0"
Kpvpuvf "qh'uwtxg{0'	Vj g" uwtxg{" kpvpuvf" y cu" eqpukf gtgf " cf gs wcvg" vq" kf gpvkh{" hqtukle" i tqwr kpi u" qh' vgttguvken' hqt c" cu" tgs vktgf " d{" c" Ngxgn' 4" uwtxg{." y kj " tgr rkecvkqp"qh's wcf tcw'v j tqwi j "xgi gvcvqp'wpku"cpf "hqv'ugctej kpi 0"C'vqcn' qh'cr r tqzko cvgn' "206" "qh'v j g"Uwf {" Ctgc"y cu" f kgevf "uco r rnf "v j tqwi j " s wcf tcw." cu"y gm'cu"ur gekhle"ugctej kpi "hqt"eqpugtxcvqp"uki pkklecpv'hqt c" cpf "qr r qtwpvken'ugctej kpi "cnuq'wpf gtvcngp"v j tqwi j qw'v j g"Uwf {" Ctgc0'
Ego r ngvpguu" cpf " o cr r kpi " tgricdkv{0'	Vj g" uwtxg{" qh' v j g" Uwf {" Ctgc" y cu" eqpukf gtgf " eqo r ngv" kp" vto u" qh' o cr r kpi "qh' xgi gvcvqp" wpku0" Vj g" uwtxg{" y cu" eqpukf gtgf " eqo r ngv" kp" vto u"qh'uwtxg{" hqt"eqpugtxcvqp"uki pkklecpv'hqt c"vzc."gzegr v'hqt "v j g" hqt c" vzc" Cunt qukr c "drvenk" *R5+"cpf "Ngr kf kw "i gplanqf gu" *R5+" y j lej " j cxg" pqv'dggp"ur gekhlecm' "ugctej gf "hqt"kp'v j g"Uwf {" Ctgc"cu'v j g' y gtg'kf gpvkhgf " f wt kpi " j gtdctkwo " kf gpvkhlecvkpu" hqmj kpi " v j g" eqo r ngvqp" qh' v j g" hgrf " uwtxg{00 cr r kpi "tgricdkv{" y cu' i qqf "cu' j ki j "tguqnwvqp"cgtkcn' j qvqi tcr j {" y cu'wvgf ." y kj "375"s wcf tcw"guvcdkuj gf "kp'v j g"Uwf {" Ctgc."cpf "hqv'cpf " xgj kerg"tcpugev'u'y gtg'go r m{gf 0"
Tguqwegu" cpf " gsr gtkgpeg" qh' r gtuqppgf0'	Cf gs wcvg'tguqwegu'kpenwf kpi "gsr gtkgpegf "hgrf "r gtuqppgr'cpf "czqpqo kuw" y kj "cr r tqr tkvg'gsr gtvkg'kp"Eqqri ctf kg'Tgi kq' hqt c'y gtg'wkrkgf 0'
Tgo qvpguu" cpf lqt" ceeguu" r tqdigo u0'	Ceeguu"vq'v j g"Uwf {" Ctgc"y cu"eqpukf gtgf "cf gs wcvg0"P q"rko kcvkpu"tgrvxf " vq"tgo qvpguu"qt"ceeguu"ku"eqpukf gtgf "vq" j cxg"chgevgf "v j g"tguwmu"qh'v j g" uwtxg{0'

3.10 RECORDING OF MALLEEFOWL NEST MOUND LOCATIONS

Y j gtg"v j g"pguv'o qwpf u"qh'v j g"hcwpc"vczqp"O cmgghqy n"\*Ngr qc "qegm v+"y gtg" gpeqwpvgtgf " f wt kpi " ugctej kpi " hqt" eqpugtxcvqp" uki pkklecpv' hqt c" cpf " y j krg" vtcxgtukpi " vq" cpf " dgw ggp" s wcf tcw." v j g'mecvqp"eqqtf kpcvgu'hqt "v j g'pguv'o qwpf u'y gtg'tgeqtf gf "wukpi " j cpf " j gfr "I cto kp" I RU"vq"cuukv'kp'kf gpvkh{ kpi "v j g'hcwpc"xcnvgu"qh'v j g"Uwf {" Ctgc0"Rj qvqi tcr j u"qh'gcej "o qwpf " tgeqtf gf "y gtg"cnq"vcngp0" Vj g"mecvqp"eqqtf kpcvgu" hqt "v j g"pguv'o qwpf u"ctg" r tqxkf gf "kp" Cr r gpf kz "K0"

## 4. RESULTS

### 4.1 FLORA OF THE STUDY AREA

#### 4.1.1 Vascular Flora Census

C "vqcn'qh" 46: "f kuetgvg" xcuewrt "hqt c" vzc. "3" npqy p "kuvf" qp "Hqt cdcug" \*F RcY "4236d++" j {dtkf "cpf "3" r wcvkxg" j {dtkf "y gtg" tgeqtf gf "y kj kp" yj g" Uwf { "Ctgc0" Vj gug" vzc "tgr t gupv" 76" hco kkgu" cpf "359" i gpgtc0" Vj g" o quv' y gm' tgr t gupv' gf "hco kkgu" y gtg "Hcdcecg" \*55" vzc "cpf "3" npqy p" j {dtkf + "Cvgtcecg" \*4; "vzc+ "O {tcecg" \*3; "vzc+ "Ej gqr qf kcecg" \*39" vzc "cpf "3" r wcvkxg" j {dtkf + "cpf "Uetqrj wrtkecg" \*35" vzc+ 0

Cxgtci g" vczq" tkej pguu" r gt" s wcf tev' y cu" 3: 0 " 70 + " y kj " yj g" i tgcvgu' pwo dgt" qh' vzc" tgeqtf gf "kp" c" ukpi ng" s wcf tev' dglpi "55. "cpf "9" vzc" yj g" riy guv' pwo dgt0" C "hmn' rku' qh' vzc" ku" r t gupv' gf "kp" Crr gpf kz "L" y kj " tcy " s wcf tev' cpf " ukg" f cxc" cpf " r ctco gvtu" r t gupv' gf "kp" Crr gpf kz "M0"

#### 4.1.2 Conservation Significant Flora Taxa

Qpg "Tctg" Hqt c" vczq" kuvf "wfp gt" yj g" Y kf rkg "Eqpugt xc' kq" "Cev" 3; 72 " \*Y C+ " y cu" tgeqtf gf " hqo " yj g" Uwf { "Ctgc. "dglpi "Vgt cvj gec" gt wdguegpi 0

P kpg "F RcY / ercuukhgf "Rtktkv\ "Hqt c" vzc" y gtg" tgeqtf gf " hqo " yj g" Uwf { "Ctgc. "dglpi <

- Dg{ gk c' t quwgrv " \*R3+ =
- Ceceke' f kuqpc' xct0' kpf qrtk " \*R5+ =
- Cwut qukr c' drc enkk' \*R5+ =
- J kddgt vk' rgr kf qecrf z' lwdur 0' wldgt ewr v " \*R5+ =
- Ngr kf qur gt o c' rgt t keqr " \*R5+ =
- Urct vqj co pgr " ur 0J gngpc' ( "Cwtqc' Tcpi g" \*RI 0Cto utqpi "377/32; + \*R5+ =
- Ugpvcvj go wo 'pgy dgf k' \*R5+ =
- Uf rj grk " ur 0Dwrtkpej " \*O 0J kur "5796+ \*R5+ = "cpf "
- Dcpmk " ct dqt gc " \*R6+ =

Kp" cf f kq" vq" F RcY / ercuukhgf "Rtktkv\ "Hqt c" vzc" tgeqtf gf " yj g" Uwf { "Ctgc" kuvf " cdqg. "Ngr kf kwo " i gpkuvkf gu" \*R5+ " y cu" tgeqtf gf " luv' qwukf g" yj g" Uwf { "Ctgc0" Vj ku' vczq" ku" f kuewugf " hvtj gt" dgrqy 0

C " hvtj gt" F RcY / ercuukhgf " Rtktkv\ " Hqt c" vczq" npqy p" hqo " yj g" Uwf { " Ctgc" \*Y guvtp" Dqvcplecn' 4229/422: "wpr wdrukj gf "f cxc= "O clc" 4235+ " I t gxlmgc "gt ge' kvdc " \*R6+ " ku' eqpukf gtgf " vq" dg" cp" gttqpgqu" kf gpv' hccv' kq. "cpf " yj g" thgtg" yj ku' vczq" ku" pqv' eqpukf gtgf " vq" qeew " kp" yj g" Uwf { "Ctgc0" Vj ku' vczq" ku" f kuewugf " hvtj gt" dgrqy 0

C " hvtj gt" 5 " eqmge' kvpu' o cf g' kp' yj g" Uwf { "Ctgc" eqwf " pqv' dg" o cvej gf " vq" cp { " npqy p" vczq. " cpf " r qv' p' km\ " tgr t gupv' wfp guetkdgf " vzc= " yj gug' ctg' f kuewugf " ugr ctcvgn\ " kp' Uge' kvp' 6050

Vcdrg "8" r t gupv' c' rku' qh' eqpugt xc' kq" uki p' hccp' vzc" npqy p" hqo " yj g" Uwf { "Ctgc. " kpenf kpi " yj qug" tgeqtf gf " f wtkpi " r t gxlqu" uwtxg { u. " vqi gj gt" y kj " rccv' kq" kphqto cvkq' 0 " Tgeqtf u" f kur m { gf " kpenf g <

- Tgeqtf u' hqo " yj ku' ewtgpv' uwtxg { " qh' yj g" Uwf { "Ctgc" \* rcdgmgf " cu" : Y GE 0 =

- Y guvgtp' Dqvcplecn' 4229/422: "wpr wdrkuj gf 'f cvc' \*rdgmgf 'cu': Y Dø= "cpf "
- O clk' \*4235+ \*rdgmgf "cu": O clkø0"

Hqt "Vgt cyj gec 'gtwdguegpu' \*T+ "qpn' 'tgeqtf u' htqo 'O clk' \*4235+ 'ctg' lpenmf gf . 'cu' 'y' ku' tgr tguwpv' 'y' g' o' quv' tgegpv' cpf "ceewtcvg" egpuwu' qh' 'y' ku' ur gelgu0' "Tgeqtf u' htqo 'F RcY ø' 'y' tgcvgpgf "hqt c' f c' v' d' c' u' g' u' 'ctg' p' q' v' l' p' e' n' m' f' g' f' . 'cu' 'k' 'ku' eqpukf gtgf "y' cv' 'y' ku' uwtxg{ "cpf "r t' g' x' k' q' w' u' w' t' x' g' { u' 'j' c' x' g' x' l' u' k' g' f' "cm' F RcY "tgeqtf u' y' k' j' k' p' "y' g' u' w' f' { "ctgc. "cpf "y' g' t' g' h' q' t' g' F RcY "tgeqtf u' q' x' g' t' m' r' "y' k' j' tgeqtf u' htqo "y' g' u' g' u' w' t' x' g' { u' 0' "Vq' c' x' q' k' f' "f' w' r' d' e' c' v' k' p' . "tgeqtf u' q' h' F RcY / e' n' c' u' l' k' g' f' "Rt' k' q' t' k' v' { "Hqt c' v' z' c' "htqo 'O clk' \*4235+ 'ctg' p' q' v' l' p' e' n' m' f' g' f' = 'y' g' u' g' t' g' e' q' t' f' u' q' x' g' t' m' r' "tgeqtf u' htqo "y' ku' u' w' t' x' g' { "q' h' 'y' g' U' w' f' { " Ctgc" c' p' f' " r' t' g' x' k' q' w' u' " u' w' t' x' g' { u' " q' h' 'y' g' U' w' f' { " Ctgc" \*Y guvgtp' Dqvcplecn' 4229/422: "wpr wdrkuj gf 'f cvc: 0'

Nqecv' k' p' u' q' h' e' q' p' u' g' t' x' c' v' k' p' " u' k' i' p' h' e' c' p' v' " h' q' t' c' " v' z' c' " \*l' p' e' n' m' f' g' f' i' " r' q' v' p' v' k' m' { " w' p' f' g' u' e' t' k' d' g' f' " v' z' c' + " t' g' e' q' t' f' g' f' " h' t' q' o' "y' ku' u' w' t' x' g' { "q' h' 'y' g' U' w' f' { "Ctgc. "l' p' e' n' m' f' g' f' i' "y' q' u' g' t' g' e' q' t' f' g' f' "q' w' u' k' f' g' 'y' g' U' w' f' { "Ctgc. " c' t' g' " r' t' g' u' g' p' v' g' f' " k' p' " C' r' r' g' p' f' k' z' " N' 0' " Nqecv' k' p' u' q' h' e' q' p' u' g' t' x' c' v' k' p' " u' k' i' p' h' e' c' p' v' " h' q' t' c' " v' z' c' " \*l' p' e' n' m' f' g' f' i' " r' q' v' p' v' k' m' { " w' p' f' g' u' e' t' k' d' g' f' " v' z' c' + " n' p' q' y' p' " h' t' q' o' "y' k' j' k' p' " c' p' f' " k' p' "y' g' x' l' e' k' p' v' { "q' h' 'y' g' U' w' f' { "Ctgc" c' t' g' f' k' u' r' m' { g' f' " q' p' " H' k' i' w' t' g' u' ' 7' 0' 3' 0' "

Table 6: Summary of Conservation Significant Taxa Known from within the Study Area

Taxon	Conservation Code	Total Number of Point Locations Recorded in Study Area by WEC	Total Number of Individuals Recorded in Study Area by WEC	Total Number of Locations Known in the Study Area (All Surveys)	Total Number of Individuals Known in the Study Area (All Surveys)	Vegetation Units (WEC)	Record Source
Vgycvj gec 'gtwdguegpi'	T"	Pqv'cuuguugf "	Pqv'cuuguugf "	8.3; 2"	8.3; 2"	6.'8.'32.'33"	O ckc"
Dgfgtkc 'tquwgrvc "	R3"	; 9"	: 64"	3.7; 9"	9.427"	6.'8.'; '32.'33"	Y GE=" Y D"
Cecec 'fkuuqpc 'xct0' kpf qnqt kc "	R5"	37; "	873"	382"	874"	3.'4.'8.'9.'; .'32.' 37"	Y GE=" Y D"
Cwnt qukr c 'drv enkk'	R5"	9"	43"	9"	43"	3.'32.'33.'37"	Y GE "
J kddgtvk 'igr kf qecrf z" uwdur 0'wdgt ewrvc "	R5"	33: "	4.64: "	7.593"	5; .; 27"	3.'4.'6.'7.'; .'32.' 33.'38"	Y GE=" Y D"
Ngr kf qur gto c 'igt tkeqr "	R5"	88"	3.998"	4.97; "	67.249"	4.'7.'; .'32.'33.' 35.'38"	Y GE=" Y D"
Urctvqj co pgnv 'tr 0J grgpc" ( 'Cwtqtc'Tcpi g'*RI 0' Cto utqpi "377/32; +"	R5"	3"	3"	5"	5"	32.'33"	Y GE=" Y D"
Ugpcvj go wo 'pgy dgfk'	R5"	477"	4.784"	7.5; 4"	38.9; 3"	6.'7.'8.'; .'32.'33.' 35.'36"	Y GE=" Y D"
Ufrj gtrc 'tr 0Dwnhpej '*O 0' J kumr "5796+"	R5"	78"	457"	7; "	45; "	3.'4.'6.'38"	Y GE=" Y D"
Dcpmkc 'ct dqtgc "	R6"	846"	4.73: "	4.485"	6.86: "	3.'4.'6.'7.'8.'; .'32.'33.'35"	Y GE=" Y D"





**Legend**

- Study Area
- *Tetraetheca erubescens* (R)




This map should only be used in conjunction with WEC report CNR13-02-01.



<b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> <b>Distribution of <i>Tetraetheca erubescens</i> (R)</b> <b>in the Study Area and Surrounds</b>	Author: David Coultas	<b>Figure</b>  <b>6.1</b>
	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f06-01.mxd	
	Revision: A - December 2013	
Scale: 1:40,000 (A3) Grid: MGA Zone 50		





 <p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>	<p>Cliffs Asia Pacific Iron Ore Pty Ltd Distribution of <i>Beyeria rostellata</i> (P1) in the Study Area and Surrounds</p>	Author: David Coultas	Figure
		WEC Ref: CNR13-02-01	
Revision: A - December 2013	Filename: CNR13-02-01-f06-02.mxd	Scale: 1:40,000 (A3) Grid: MGA Zone 50	





**Legend**

- Study Area
- *Acacia dissona* var. *indoloria* (P3)



This map should only be used in conjunction with WEC report CNR13-02-01.

**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of *Acacia dissona* var. *indoloria* (P3)**  
**in the Study Area and Surrounds**

Revision: A - December 2013

Author: David Coultas
WEC Ref: CNR13-02-01
Filename: CNR13-02-01-f06-03.mxd
Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**6.3**





**Legend**

- Study Area
- *Austrostipa blackii* (P3)



This map should only be used in conjunction with WEC report CNR13-02-01.



**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of *Austrostipa blackii* (P3)**  
**in the Study Area and Surrounds**

Revision: A - December 2013



Author: David Coultas  
 WEC Ref: CNR13-02-01  
 Filename: CNR13-02-01-f06-04.mxd  
 Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**6.4**





**Legend**  
 □ Study Area  
 ● *Hibbertia lepidocalyx subsp. tuberculata* (P3)

 This map should only be used in conjunction with WEC report CNR13-02-01.		<b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> <b>Distribution of</b> <i>Hibbertia lepidocalyx subsp. tuberculata</i> (P3) <b>in the Study Area and Surrounds</b>		Author: David Coultas	<b>Figure</b>  <b>6.5</b>
				WEC Ref: CNR13-02-01	
				Filename: CNR13-02-01-f06-05.mxd	
				Scale: 1:40,000 (A3) Grid: MGA Zone 50	
		Revision: A - December 2013			





**Legend**

- Study Area
- *Lepidosperma ferricola* (P3)



This map should only be used in conjunction with WEC report CNR13-02-01.



**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of *Lepidosperma ferricola* (P3)**  
**in the Study Area and Surrounds**

Revision: A - December 2013

Author: David Coultas

WEC Ref: CNR13-02-01

Filename: CNR13-02-01-f06-06.mxd

Scale: 1:40,000 (A3) Grid: MGA Zone 50



**Figure**  
**6.6**





**Legend**

- Study Area
- *Spartothenella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3)

 <p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>		<b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> Distribution of <i>Spartothenella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3) in the Study Area and Surrounds	Author: David Coultas	<b>Figure</b>  <span style="font-size: 1.5em;">6.7</span>
		Revision: A - December 2013	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f06-07.mxd	Scale: 1:40,000 (A3) Grid: MGA Zone 50		





**Legend**

- Study Area
- *Stenanthemum newbeyi* (P3)



This map should only be used in conjunction with WEC report CNR13-02-01.

**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of *Stenanthemum newbeyi* (P3)**  
**in the Study Area and Surrounds**

Revision: A - December 2013

Author: David Coultas
WEC Ref: CNR13-02-01
Filename: CNR13-02-01-f06-08.mxd
Scale: 1:40,000 (A3) Grid: MGA Zone 50


**Figure**  
**6.8**





**Legend**

- Study Area
- *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3)



This map should only be used in conjunction with WEC report CNR13-02-01.

<p>Cliffs Asia Pacific Iron Ore Pty Ltd Distribution of <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3) in the Study Area and Surrounds</p>	Author: David Coultas	<p>Figure <b>6.9</b></p>
	WEC Ref: CNR13-02-01	
	Filename: CNR13-02-01-f06-09.mxd	
Revision: A - December 2013	Scale: 1:40,000 (A3) Grid: MGA Zone 50	





**Legend**  
 □ Study Area  
 ● *Banksia arborea* (P4)



woodmanenvironmentalconsulting

This map should only be used in conjunction with WEC report CNR13-02-01.

**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of *Banksia arborea* (P4)**  
**in the Study Area and Surrounds**

Revision: A - December 2013

Author: David Coultas  
 WEC Ref: CNR13-02-01  
 Filename: CNR13-02-01-f06-10.mxd  
 Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**6.10**





**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Distribution of Potential Undescribed Taxa**  
**in the Study Area and Surrounds**

Revision: A - December 2013

Author: David Coultas  
 WEC Ref: CNR13-02-01  
 Filename: CNR13-02-01-f06-11.mxd  
 Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**6.11**



**Tetradthea erubescens (R)**

Vgt c' y' gec "gt wdguegpu" \*T+ "ku" c' "ny . "vpi ngf "uj twd" "vq" 207 "o "j ki j " \*Rrv" 3+ "qeewttkpi "qp" erkhh' rkgu' y' kj "gzr qugf "dcpf gf "kqpuvqpg" qp" tgf "enc { "mqc " \*F RcY "4236d+0" "Cu" pqvgf "kp" Ugevkqp" 407. "v' ku' ur gekgu" ku" t' gut' kvgf "vq" cr r' tqzko cvgn { "308' no "c' rpi "v' g" Uqwj gtp' Mqqr' cpqddkpi " Tcpi g' \*O ckc" 4235+ "y' kj "44" t' geqtf u' j' grf "d { "F RcY "htqo "y' kj kp" v' ku' t' cpi g' \*Rrv" 4+ " \*F RcY " 4236c+0" "

Vj ku' ur gekgu' y' cu' t' geqtf gf "d { "v' ku' uwtxg { "qh' v' j' g' Uwf { "Ctgc. "j' qy gxgt "cm' m' qec' v' kpu' y' gtg' y' kj kp" v' j' g' egpuwu' ctgc" uwtxg { gf " d { " O ckc" \*4235+0" " P q" cf f' k' k' q' p' c' n' uwtxg { " hqt" v' j' ku' ur gekgu' y' cu' eqpukf gtgf "pgeguuct { " \*ugg" Ugevkqp" 407+0" "O ckc" \*4235+ "t' geqtf gf "c" "v' q' c' n' qh' 8.543" k' p' f' k' k' f' w' c' n' . "qh' y' j' lej "8.3; 2" k' p' f' k' k' f' w' c' n' y' gtg' c' r' k' x' g' c' p' f' "353" k' p' f' k' k' f' w' c' n' y' gtg' f' g' c' f' " \*Vcdng" 8+ "cm' m' qec' v' g' f' "qp" ugxgtc' n' l' e' r' h' h' i' k' p' g' u' q' w' j' g' t' p' j' c' h' q' h' v' j' g' Uwf { "Ctgc" \*Hki wtg' 808+0" "



Plate 1: **Tetradthea erubescens (R)** (Photos: Woodman Environmental)

*Tetradthea erubescens*

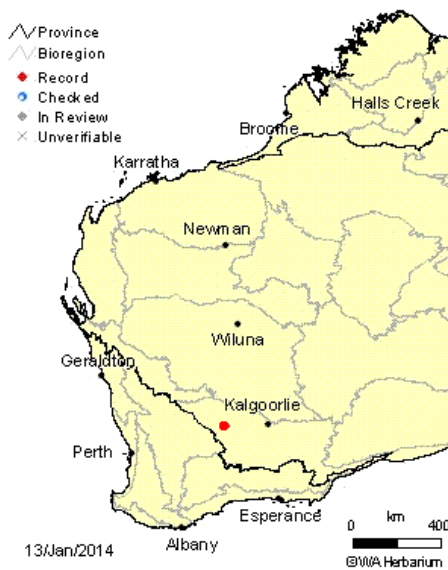


Plate 2: **Regional Distribution of Tetradthea erubescens (R)** (DPaW 2014a)

**Beyeria rostellata (P1)**

Dg' g' tk "t quagm' w "R3+"ku" c" ur kpf n' . "t gul' p' qu" qt "xkuek' "uj twd" v" 30 "o "j ki j "Rrv' g" 5+"y j lej " qeewtu" qp" dcpf gf " k' q' p' u' v' p' g' " j kmu" \*F RcY " 4234i +0' " Vj ku" czqp" qeewtu" qxgt" c" t' cpi g" qh' cr r tqzko cvgn' " : 2" m' . " Itqo " l' wu' u' q' wj " qh' O q' w' p' v' L' cem' u' p' " k' p' " y' g' p' q' t' v' " v' " u' q' wj /y gu' v' qh' M' q' q' n' c' p' q' d' d' k' p' i " k' p' " y' g' " u' q' wj 0' " Vj g' t' g' " c' t' g' " 59' F RcY " t' g' e' q' t' f' u' " q' h' " y' k' u' " v' c' z' q' p' " f' k' u' t' k' d' w' g' f' " c' v' " 4' " d' t' q' c' f' " m' e' c' r' k' k' u' " c' e' t' q' u' " v' j' k' u' " t' c' p' i' g' = " y' g' " u' q' wj g' t' p' /o' q' u' v' m' e' c' r' k' k' u' " { " e' q' t' t' g' u' r' q' p' f' u' " v' j' g' " m' e' c' v' k' p' " q' h' " y' g' " U' w' f' { " C' t' g' c' 0' " Vj g' t' g' " c' t' g' " t' g' e' q' t' f' u' " q' p' " D' t' q' p' v' k' g' " c' p' f' " O' v' L' c' e' m' u' p' " U' c' v' k' p' u' " c' p' f' " F RcY " o' c' p' c' i' g' f' " g' z' /O' q' w' p' v' L' c' e' m' u' p' " u' c' v' k' p' " \*Rrv' g' " 6+ " \*F RcY " 4236c-0' " " "

Vj ku' czqp" y cu" tgeqtf gf "cv"; 9" r qkp' v' m' e' c' v' k' p' u' " d' { " y' k' u' " u' w' t' x' g' { " q' h' " y' g' " U' w' f' { " C' t' g' c' . " e' q' p' u' k' u' k' p' i " q' h' " cr r tqzko cvgn' " : 64" k' p' f' k' k' f' w' c' n' u' " C " " v' q' w' n' q' h' " 3.7: 9" r qkp' v' m' e' c' v' k' p' u' " c' t' g' " p' q' y " n' p' q' y " p' " k' p' " y' g' " U' w' f' { " C' t' g' c' . " e' q' p' u' k' u' k' p' i " q' h' " cr r tqzko cvgn' " 9.427" k' p' f' k' k' f' w' c' n' u' " \*V' c' d' r' g' " 8-0' " O' q' u' v' m' e' c' v' k' p' u' " q' e' e' w' t' " q' p' " d' c' p' f' g' f' " k' t' q' p' u' v' p' g' " q' w' e' t' q' r' u' " q' p' " y' g' " U' q' w' j' g' t' p' " M' q' q' n' c' p' q' d' d' k' p' i " T' c' p' i' g' . " y' k' j' " y' k' u' " r' g' e' k' u' " g' z' v' g' p' f' k' p' i " q' w' u' l' f' g' " y' g' " U' w' f' { " C' t' g' c' " k' p' " y' k' u' " j' c' d' k' c' v' " \*H' k' i " w' t' g' " 804-0' " " "



Plate 3: **Beyeria rostellata (P1)** (Photos: Woodman Environmental)



Plate 4: **Regional Distribution of Beyeria rostellata (P1)** (DPaW 2014a)



**Acacia dissona var. indoloria (P3)**

Cecek 'f kuuqpc 'xct0'kpf qrtk "R5+'ku'c'uj twd"vq"4"o "j ki j "Rrv"7+'i gpgtcm{"qeewtlkpi "qp" r nklpu'cpf "ecrectgqwu'tkf i gu"qp"dtqy p"qt'tgf "ucpf {"mqo "qt'er {"mqo "F RcY "4236c+0"Vj ku' vczqp"j cu'c'tcpi g"qh'cr r tqzko cvgn("772"no . "Itqo "pgct"Dvpngvej "lp"vj g"pqtj /y guv"vq"pqtj / gcu'qh'P qtugo cp'lp"vj g"geu0"Cecek 'f kuuqpc 'xct0'kpf qrtk 'ku'npqy p'ltqo "46'F RcY 'tgeqtf u." y kj "3'tgeqtf "lp'F tci qp"Tqemu'P cwtg'Tgugtxg'cpf "4'tgeqtf u'lp'Hcpni'J cpp"P cvkqpcn'Rctn0" Vj g"o clqtk{" "qh' vj g" tgo clkpi "tgeqtf u" ctg" mcev'f "lp" vj g" ci tkewwtrn' | qpg' qh' Y guv'gtp' Cwutck. "qp'tqcf 'tgugtxgu'cpf "qp'r tkxcv'g'r tqr gtv {"Rrv"8+'F RcY "4236c+0" "

Vj ku'vczqp'y cu'tgeqtf gf "cv'37; "r qkv'mecv'kpu'd {"vj ku'uwtxg {"qh'vj g'Uwf {"Ctgc."eqpuklpi "qh' cr r tqzko cvgn("873"lpf kxkf wcu0"C "vcrn'qh'382"r qkv'mecv'kpu'ctg"pqy "mpqy p"lp"vj g'Uwf {" Ctgc."eqpuklpi "qh'cr r tqzko cvgn("874"lpf kxkf wcu"Vcdrg"8+0"O quv'mecv'kpu'qeww "qp"m'y " f qrtk'g"j kmu'pqtj "qh'vj g'Uqwj gtp'Mqqn cpqddkpi 'Tcpi g.'y kj "vj ku'ur geku'gz v'gpf kpi "qwu'kf g" vj g'Uwf {"Ctgc'lp"vj ku'j cdkcv"Hi wtg'80+0' "



Plate 5: *Acacia dissona* var. *indoloria* (P3) (Photos: Woodman Environmental)

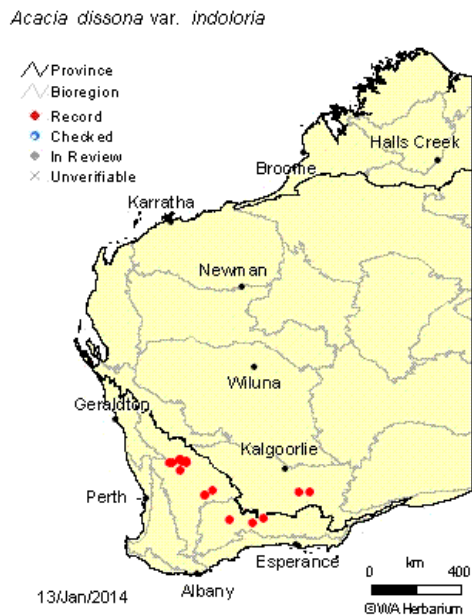


Plate 6: Regional Distribution of *Acacia dissona* var. *indoloria* (P3) (DPaW 2014a)



**Austrostipa blackii (P3)**

Cwut qukr c'drcenk'R5+ku'c'r gtgpplcn'wuuqem'i tcuu'v'3'o "j ki j \*Rrv'9+i'pgtcm' "qeewtkpi " qp"dcpg'gf "ktqpuvpg'tkf i gu."dtgcn'ey c {u."dcucn'j kmu."tqem' "ctgcu."cpf "qecukqpcm' "qp"r r'kpu" cpf "kp" etggmkpgu" \*FRcY "4236d+0" "Vj ku"ur gelgu"j cu" c"tcpi g"qh' cr r tqzko cvgn' "7: 2"no "kp" Y guvtp"Cwutcrk."htqo "pqt vj "qh'Rgt gplqt'k'lp"vj g"pqt vj /gcu'v'q"pgct"Mc'o derf c"kp"vj g"uqwj / gcu'0"Vj gtg'ctg'cnuq'4"f kulwpev'tgeqtf u'ht' "vj ku'czq'p'pgct"Dtqqmq'p'cpf "Rkpi gm'0"Vj gtg'ctg" ; 6"FRcY "tgeqtf u'qh'Cwut qukr c'drcenk"y kj "vj g"o clqtk' "qeewtkpi "qp"r cuvqtcn'ngcugu"cpf " FRcY "o cpci gf "gz'r cuvqtcn'uc'v'kpu"\*Rrv'g": +0"Vj gtg'ctg'cnuq' "uqo g"tgeqtf u'ngcvgf "kp"pcwtg" tgugt'xgu." qp" r tkcv'g" r tqr gtv' " cpf " qp" Wpcmqecvgf " Etqy p" Ncpf " \*WEN+" \*FRcY "4236c+0" Cwut qukr c'drcenk'ku'cnuq'y kf gn' "f kvtkdwgf "kp"vj g"gcuvtp"j crh'qh'Cwutcrk."y kj "pwo gtqwu" tgeqtf u'htqo "vj g"gcuvtp"j crh'qh'Uqwj "Cwutcrk."Xlevqtk'cpf "P gy "Uqwj "Y cngu."cpf "c"uo cm' pwo dgt'qh'tgeqtf u'htqo "Vcuo cplc"\*Eqwpekn'qh'J gcf u'qh'Cwutcrk'J gtdctk'4235+0 "

Cwut qukr c'drcenk'y cu'pqv'r qukk'xgn' "kf gp'v'k'gf "vp'v'k'ch'gt"vj g'eqo r ngv'k'p'qh'h'k'gf "uwxg{."cpf " vj gtghqtg'pq"ur gelk'le"ugctej kpi "ht' "vj ku"ur gelgu"y cu"eqpf wv'gf 0"Ugxgp'r qkpv'ngc'v'kpu'qh'vj ku" ur gelgu"y gtg" tgeqtf gf " d{ " vj ku" uwxg{ " qh" vj g" Uwf { " Ctgc." eqpukv'kpi " qh" 43" kpf k'k'f wcu'0" Ngc'v'kpu'qh'vj ku"ur gelgu"y gtg"qp"tqem' "ctgcu."kpen'f kpi "dcpg'gf "ktqpuvpg"qwetqr u"qp"vj g" Uqwj gtp" Mqqn'cpqddkpi " Tcpi g." cpf " ngy " f qrgtk'g" j kmu" vq" vj g" pqt vj " qh" vj g" Uqwj gtp" Mqqn'cpqddkpi " Tcpi g"\*Hki wtg"806+0" ""Cu"Cwut qukr c'drcenk'y cu'pqv'ur gelk'lecm' "ugctej gf " ht." ku" f kvtkdw'k'p" dqv' "y kj kp" cpf " dg{ qpf " vj g" Uwf { " Ctgc" ku" rkn'gn' " vq" dg" i tgcvt' " vj cp" ewtgpw' "tgeqtf gf 0 "



Plate 7: **Austrostipa blackii (P3)** (Photos: Woodman Environmental)

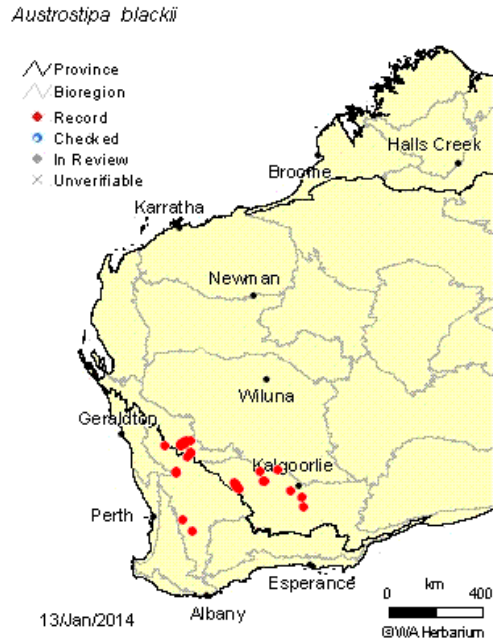


Plate 8: Regional Distribution of *Austrostipa blackii* (P3) (DPaW 2014a)

***Hibbertia lepidocalyx* subsp. *tuberculata* (P3)**

*J kldgt vk "ngr kf qecr z" uwdur O' wldgt ewc w "R5+" ku' cp" gt gev' uj twd" vq" 207" o " j ki j "Rrv g"; +*  
*qeewtkpi "qp' dcpf gf "kqpuqpg" tkf i gu' c' pf "xcmg { "unr gu' qp" { gmty / qtcpi g' nco "y kj "kqpuqpg"*  
*i t' cxgn' "F RcY "4236d+0" Vj ku' czqp "qeewtu' qxgt "c' npqy p' t' cpi g' qh' cr r tqzko cvgn { "3: 2' no . "tqo "*  
*pgt "O qwpv' O c' p' kpi "Tcpi g' P cwtg' T g' ugt xg' "kp' yj g' pqt yj . "v' uqwj / gcuv' qh' O' ct' xgn' Nqej "kp' yj g'*  
*uqwj 0" Vj gtg' ctg' "63" F RcY "tgeqtf u' qh' yj ku' czqp. "y kj "cr r tqzko cvgn "34" tgeqtf u' qeewtkpi "kp'*  
*O qwpv' O c' p' kpi "6" J grgc" c' pf "Cwtqc" Tcpi gu' Eqpugtxc' kq' "Rctm' c' pf "4" tgeqtf u' qecv' gf "kp'*  
*O qwpv' O c' p' kpi "Tcpi g' P cwtg' T g' ugt xg' "Rrv g" 32+0" Vj g' tgo c' k' kpi "tgeqtf u' ctg' qecv' gf "qp"*  
*Dtqpv' g' U' c' kq' . "F RcY "o c' pci gf "gz' Lcwf k' U' c' kq' . "WEN" c' pf "r tkc' v' r' tqr g' tv { "F RcY "4236c+0"*  
 "

*Vj ku' czqp" y cu' tgeqtf gf "cv33: "r q' k' v' qecv' k' pu' d { "y ku' uwt xg { "qh' yj g' Uwf { "Ctgc. "eqpuk' k' kpi "qh'*  
*cr r tqzko cvgn "4.64: "k' pf k' k' f wcu' 0" C "v' q' v' n' qh' 7.593" r q' k' v' qecv' k' pu' ctg' p' qy "npqy p' "kp' yj g' Uwf { "*  
*Ctgc. "eqpuk' k' kpi "qh' cr r tqzko cvgn "5; . ; 27" k' pf k' k' f wcu' "Vcdrg" 8+0" O qu' qecv' k' pu' qeewt "qp"*  
*d' c' pf gf "kqpuqpg" q' t' n' v' g' t' k' u' gf "kqpuqpg" q' w' e' t' q' r' u' q' p' yj g' Uqwj gtp 'Mqqr' cpqddkpi 'Tcpi g' . "y kj "*  
*yj ku' ur geku' g' z' v' g' p' f' k' pi "q' w' u' k' f' g' yj g' Uwf { "Ctgc" k' p' yj ku' j' c' d' k' c' v' "Hki w' t' g' 807+0"*  
 "



Plate 9: *Hibbertia lepidocalyx* subsp. *tuberculata* (P3) (Photos: Woodman Environmental)



Plate 10: Regional Distribution of *Hibbertia lepidocalyx* subsp. *tuberculata* (P3) (DPaW 2014a)



**Lepidium genistoides (P3)**

Ngr kf kwo "i gpkwqkf gu"R5+"ku"ur tgc f kpi . "f gpug"uj twd"vq"208"o "j ki j "Rrcv"33+"qeewtkpi "qp" ucpf {"mqco "F RcY "4236d+0"Vj ku'vzqp"qeewtu'qxtg"cnpqy p"tcpi g"qh'cr r tqzko cvgn{ "452"no . " hqo "pqtj "qh'Mqqtfc"kp"vj g"pqtj /y guv'vq"uqwj /gcu'qh'O ctxgn'Nqej "kp"vj g"uqwj /gcu0"Vj gtg" ctg"54"F RcY "tgeqtf u"qh'vj ku'vzqp."y kj "vj g"o clqtkv{ "qh'tgeqtf u"qeewtkpi "kp"vj g"ci tlewnwtcn| qpg"qp"tqcf "tgugtxgu"cpf "r tkxcv"r tqr gtv{ ."cpf "qp"WEN"Rrcv"34+0"Vj gtg"ctg"4"tgeqtf u"kp" O qmgtkP cwtg'Tgugtxg"cpf "4"tgeqtf u"kp"Y cn{cj o qkpi "P cwtg'Tgugtxg"R RcY "4236c+0" "

Vy q"r qkp"mcevkpu"qh'vj ku'vzqp"y gtg"tgeqtf gf "d{"vj ku'wtxg{"qh'vj g"Uwf {"Ctgc."dqj "lww" qwukf g"vj g"uqwj /gcu' eqtpgt"qh'vj g"Uwf {"Ctgc."cv'vj g" xgt {"uqwj gtp"gp"qh'vj g"Uqwj " Mqqr'cpqddkpi "Tcpi g0" "Dqj "mcevkpu"y gtg"qp" c" xgt {"uvgr ."gzc qugf ."tqem{ "rcvgtkugf " kqpuvqpg-"ugevkp"qh'vj g"tcpi g0"Cr r tqzko cvgn{ "342"kp'kxf wcu"y gtg"pqvf "cetquu"dqj "r qkp" mcevkpu0" "Vj ku'ur gekgu"y cu"kf gpwkgf "uwdugs wgpv" vq"vj ku'wtxg{"qh'vj g"Uwf {"Ctgc."cpf " vj gtghqg"ur gekh"ugctej kpi "hqt"vj ku'ur gekgu"kp"vj g"Uwf {"Ctgc"y cu"pqv'wpgtvcngp0"J qy gxgt." kv' y cu"pqv' pqvf " gngy j gtg" kp"vj g"Uwf {"Ctgc" f gur kg"ugctej gu" hqt" qj gt" eqpugtxcvkq" uki pkhcepv' vzc" dgkpi " eqpf wvgf " kp" uko kct" j cdkcv" f wtkpi "vj ku'wtxg{0" "K' ku' vj gtghqg" eqpukf gtgf "vj cv'vj ku'ur gekgu"ku'wprkng{"vq"qeew"y kj kp"vj g"Uwf {"Ctgc."qpn{ "qeewtkpi "dg{qpf " vj g"Uwf {"Ctgc0"



Plate 11: *Lepidium genistoides* (P3) (Photos: Woodman Environmental)



Plate 12: Regional Distribution of *Lepidium genistoides* (P3) (DPaW 2014a)

***Lepidosperma ferricola* (P3)**

Ngr kf qur gto c "lgt tkeqr "R5+"ku" c" hpg/rgxgf "ugf i g" vq" 3" o " j k j " \*Rcvg" 35+ " qeewtkpi " qp" dcpf gf " kqpuvpg" tkf i gu. " uetgg" unqr gu" cpf " f tclpci g" rkgu" \*F RcY "4236d+0" Vj g" tcpi g" qh' y ku" czqp" ku" cr r tqzko cvgn " 332" m " hqo " pgt " F kg" J ctf { " Tcpi g" kp" yj g" pqt yj " vq" uqwj / gcu' qh' Mqqr' cpqddkpi " kp" yj g' uqwj 0" Ngr kf qur gto c " lgt tkeqr " ku" npqy p' hqo " 74" F RcY " tgeqtf u. " y kj " cr r tqzko cvgn "; " tgeqtf u' qh' y ku" czqp" qeewtkpi " y kj kp" O qwp' O c' p' kp " 6" J grgc" cpf " Cwtqc" Tcpi gu" Eqpug' xcvkq" Rctm" Rcvg" 36+0" Vj g" o clqtkv { " qh' yj g" tgeqtf u" qeew" qp" r cuqtcn' rgcugu" \*F RcY "4236c+0" "

Vj ku" czqp" y cu" tgeqtf gf " cv' 88" r qkp' v' m' ecv' kpu" d { " y ku" uwxg { " qh' yj g" Uwf { " Ctgc. " eqpuk' kpi " qh' cr r tqzko cvgn " 3.998" kpf kxf wcu" C " v' q' cn' qh' 4.97; " r qkp' v' m' ecv' kpu" ctg' p' qy " npqy p' kp" yj g" Uwf { " Ctgc. " eqpuk' kpi " qh' cr r tqzko cvgn " 67.249" kpf kxf wcu" \*Vcdng" 8+0" O quv' m' ecv' kpu" qeew" kp" uj cf gf " ukgu" qp" dcpf gf " kqpuvpg" qt " r' vgt kugf " kqpuvpg" qwetqr u" qp" yj g" Uqwj gtp" Mqqr' cpqddkpi " Tcpi g. " y kj " y ku" ur geku" gz v' p' kpi " qwukf g" yj g" Uwf { " Ctgc" kp" yj ku" j cdkcv' \*Hk wtg' 80+0" "



Plate 13: *Lepidosperma ferricola* (P3) (Photo: Woodman Environmental)

*Lepidosperma ferricola*

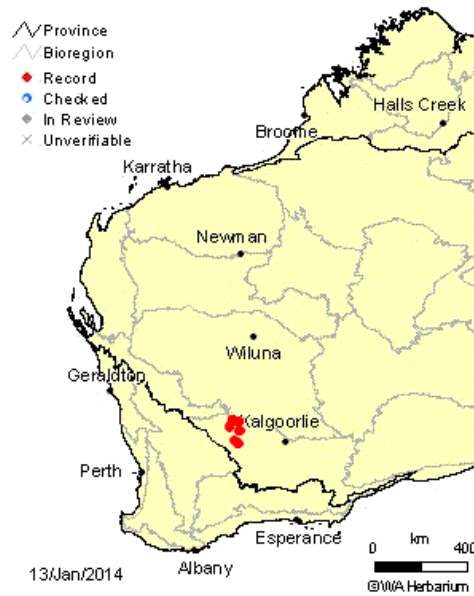


Plate 14: Regional Distribution of *Lepidosperma ferricola* (P3) (DPaW 2014a)

***Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3)**

Urc'vqj co pgn' ur' O' J g' r' p' c' ( "Cwtqtc' Tcpi g' \*RI O' Cto utqpi "377/32; +\*R5+'ku'cp'gt gev'uj twd" vq"2Q "o "j ki j "\*Rrv"37+"qee'wtkpi "qp" d'c'p'f' g' "kt'q'p'v'q'p'g' "tcpi gu'c'p'f' "uqr' gu' \*F R'c'Y "4236d+0" Vj ku'vz'q'p'ku'o quw' "h'q'w'p'f' "q'x'g't'c' "tcpi g' "q'h'c'r r' t'q'z'k'o c'v'g' "372" n' " . "h'q'o "L'q'j' p'v'q'p' "Tcpi g' "k'p' " v'j g' "p'q't'v'j /y gu'v'q' "u'q'w'j /g'c'u'v'q'h' "M'q'q'r'f' c'p'q'd'd'k'p'i "k'p' "v'j g' "u'q'w'j /g'c'u'v' "Vj g't'g' "c't'g' "c'n'q' "4" f' k'u'l'w'p'v' t'g'e'q't'f' u' "h'q't' "v'j ku'vz'q'p' "p'q't'v'j "q'h' "T'q'y' u'c' { "c'p'f' "p'q't'v'j /y gu'v'q'h' "D'g'c'eq'p' . "g'z'v'g'p'f' k'p'i "k'u' "t'c'p'i g' "d' { "c' " h'w'v'j g't' "472" n' " \*F R'c'Y "4236d+0' " Urc'vqj co pgn' ur' O' J g' r' p' c' ( "Cwtqtc' Tcpi g' \*RI O' Cto utqpi "377/32; +\*ku'np'q'y' p' "h'q'o " : "6" F R'c'Y "t'g'e'q't'f' u' "7" "q'h' "y' j' k'ej' "c't'g' "n'q'ec'v'g'f' "y' k'j' k'p' "O' q'w'p'v' O' c'p'p'k'p'i "6" J g' r' p' c' "c'p'f' "Cwtqtc' Tcpi gu' "E'q'p'ug't'x'c'v'k'q'p' "R'c't'n' "R'rv' "38+0" "Vj g't'g'o c'k'p'k'p'i "t'g'e'q't'f' u' q'ee'w' "q'p' "r' c'u'q't'c'n' "h'c'g'u'g'u' "F R'c'Y /o c'p'c'i g'f' "g'z' /r' c'u'q't'c'n' "u'c'v'k'q'p'u' "c'p'f' "WEN" \*F R'c'Y "4236c+0" "



Vj ku'vzqp'y cu'tgeqtf gf "cv'3'r qkpv'mqecvkqp"d {"vj ku'wtxg {"qh'vj g"Uwf {"Ctgc."eqpukukpi "qh'3"  
kpf kxf wcr0"C "vqcn'qh'5'r qkpv'mqecvkqp"ctg"pqy "npqy p"kp"vj g"Uwf {"Ctgc."eqpukukpi "qh'5"  
kpf kxf wcnu" \*Vcdrg"8+0" Cni'mqecvkqp"qewt "qp" dcpf gf "kqpuvqpg"qwetqr u"qp"vj g"Uqwj gtp"  
Mqqr'cpqddkpi "Tcpi g." y kj "vj ku'vzqp"gzv'gpf kpi "qwu'kf g"vj g"Uwf {"Ctgc"kp"vj ku'j cdkcv"  
\*Hi wtg'80+kp'r tqzko kv'v'Erkhu'g'z'kukpi "o kpg"qr gtc'vkqp0"  
"



Plate 15: *Sparthamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3) (Photos: Woodman Environmental)

*Sparthamnella* sp. Helena & Aurora Range (P.G. Armstrong)

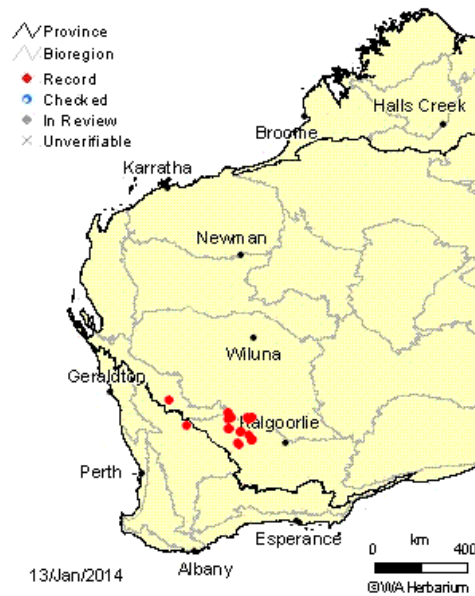


Plate 16: Regional Distribution of *Sparthamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3) (DPaW 2014a)

**Stenanthemum newbeyi (P3)**

Ugpcpvj go wo 'pgy dgf' k' R5+ 'ku' cp' g' tgev' qt' ur' t' gcf' kpi 'uj' twd' 'vq' 308' o' 'j' ki' j' 'R' cvg' 39+ 'qeewt' kpi' " qp' j' knur' gu' qh' d' c' p' f' g' f' " k' t' p' u' v' q' p' g' " q' t' " r' c' v' g' t' k' l' e' " t' k' i' g' u' q' p' " e' r' c' { g' { " u' c' p' f' . " e' r' c' { " q' t' " m' q' c' o' " q' x' g' t' " r' c' v' g' t' k' s' g' " q' t' " k' t' q' u' v' q' p' g' " \* F R c Y " 4236c+0 " Vj' ku' v' cz' q' p' " q' e' e' w' t' u' l' t' q' o' " F' k' g' " J' c' t' f' { " T' c' p' i' g' " k' p' " v' j' g' " p' q' t' v' j' " v' q' " u' q' w' j' / g' c' u' v' " q' h' " M' q' q' r' " c' p' q' d' d' k' p' i' " k' p' " v' j' g' " u' q' w' j' " q' x' g' t' " c' " t' e' p' i' g' " q' h' " e' r' r' t' q' z' k' o' c' v' g' n' { " 332' n' o' 0 " " U' g' p' c' p' v' j' g' o' w' " p' g' y' d' g' f' k' " k' u' " n' p' q' y' p' " l' t' q' o' " : " 7 " F' R' c' Y " t' g' e' a' t' f' u' . " 45 " q' h' " y' j' l' e' j' " q' e' e' w' t' " y' k' j' k' p' " v' j' g' " O' q' w' p' v' O' c' p' p' k' p' i' " o' " J' g' r' g' p' c' " c' p' f' " C' w' t' q' t' c' " T' c' p' i' g' u' " E' q' p' u' g' t' x' c' v' k' p' " R' c' t' m' " \* R' r' c' v' g' " 3: " +0 " Vj' g' " o' c' l' q' t' k' { " q' h' " v' j' g' " t' g' o' c' l' o' k' p' i' " t' g' e' a' t' f' u' " q' e' e' w' t' " q' p' " r' c' u' v' q' t' c' n' h' g' c' u' g' u' . " c' p' f' " F' R' c' Y " o' c' p' c' i' g' f' " g' z' " r' c' u' v' q' t' c' n' l' u' c' v' k' p' u' " \* F' R' c' Y " 4236c+0 " " "

Vj' ku' v' cz' q' p' " y' c' u' t' g' e' a' t' f' g' f' " c' v' 477 " r' q' k' p' v' m' e' c' v' k' p' u' d' { " v' j' k' u' u' w' t' x' g' { " q' h' " v' j' g' " U' w' f' { " C' t' g' c' . " e' q' p' u' k' u' k' p' i' " q' h' " e' r' r' t' q' z' k' o' c' v' g' n' { " 4.784 " k' p' f' k' x' k' f' w' c' n' 0 " C " v' q' v' n' " q' h' " 7.5: " 4 " r' q' k' p' v' m' e' c' v' k' p' u' c' t' g' " p' q' y' " n' p' q' y' p' " k' p' " v' j' g' " U' w' f' { " C' t' g' c' . " e' q' p' u' k' u' k' p' i' " q' h' " e' r' r' t' q' z' k' o' c' v' g' n' { " 38.9; " 3 " k' p' f' k' x' k' f' w' c' n' " \* V' c' d' r' g' " 8+0 " O' q' u' v' m' e' c' v' k' p' u' " q' e' e' w' t' " q' p' " d' c' p' f' g' f' " k' t' q' p' u' v' q' p' g' " q' w' e' t' q' r' u' c' p' f' " u' n' q' r' g' u' " q' h' " v' j' g' " U' q' w' j' g' t' p' " M' q' q' r' " c' p' q' d' d' k' p' i' " T' c' p' i' g' . " y' k' j' " v' j' k' u' " r' g' e' k' u' " g' z' v' g' p' f' k' p' i' " q' w' u' k' f' g' " v' j' g' " U' w' f' { " C' t' g' c' " k' p' " v' j' k' u' " j' c' d' k' c' v' " \* H' k' i' w' t' g' " 80 " +0 " " "



Plate 17: Stenanthemum newbeyi (P3) (Photos: Woodman Environmental)

Stenanthemum newbeyi

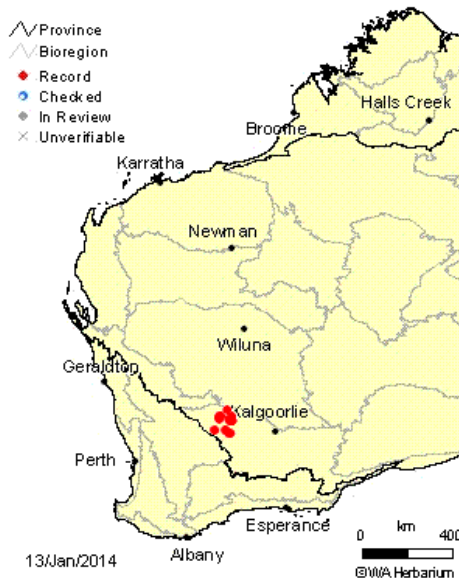


Plate 18: Regional Distribution of Stenanthemum newbeyi (P3) (DPaW 2014a)



**Styphelia sp. Bullfinch (M. Hislop 3574) (P3)**

Uf'rij grk "ur 0'Dwnhpej "\*O 0'J kur "5796+"\*R5+"ku" c"eqo rcev'uj twd"vq"3"o "j ki j "\*Rrv"3; +" qeewttkpi " qp" dtgcney c{u" cpf " j kn' unqr gu" qp" erc{" nqco " uqku" qxgt" rvgtkg" qt" f wletwv' qwetqr r kpi "\*F RcY "4236d+0"Vj ku'vczqp"j cu" c"tapi g"qh"cr r tqzko cvgn("492"no ."Itqo "pgct" Mcttqwp"J kn'P cwtg"tgugt"kp"vj g"pqtj "vq"y guv'qh'Eqqri ctf kg"kp"vj g"uqwj 0"Uf'rij grk "ur 0' Dwnhpej "\*O 0'J kur "5796+"ku"npqy p"ltqo "49"F RcY "tgeqtf u."y kj "vj g"o clqtkv("qh"vj gug" tgeqtf u"mqecvf "qp"r cuqtcn'ngcugu"cpf "F RcY "o cpci gf "gz"r cuqtcn'ucv'kpu"\*Rrv"42+0"Vj gtg" ku"3"tgeqtf "kp"O qwp"O cplkpi "o"J grgpc"cpf "Cwtqtc" Tcpi gu"Eqpugt'xcv'kq" Rctn' \*F RcY " 4236c+0" "

Vj ku'vczqp"y cu"tgeqtf gf "cv"78"r qkpv'mqecv'kpu"d{"vj ku'uwtxg{"qh"vj g"Uwf {"Ctgc."eqpukv'kpi "qh" cr r tqzko cvgn("457"kp'kxf wcn"0"C"vqcn'qh"7; "r qkpv'mqecv'kpu"ctg"pqy "npqy p"kp"vj g"Uwf {" Ctgc."eqpukv'kpi "qh" cr r tqzko cvgn("45; "kp'kxf wcn" \*Vcdng"8+0" "O quv' mqecv'kpu" qeewt" qp" rvgtkugf "ktqpuv'qpg"dtgcney c{u"qp"vj g"uqwj gtp"ukf g"qh"vj g"Uqwj gtp" Mqqn'cpqddkpi "Tcpi g." y kj "vj ku'ur geku'gz vgp' kpi "qwu'kf g"vj g"Uwf {"Ctgc'kp"vj ku'j cdkcv"\*Hki wtg"80 +0" "



Plate 19: *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3) (Photos: Woodman Environmental)

"



*Styphelia* sp. Bullfinch (M. Hislop 3574)

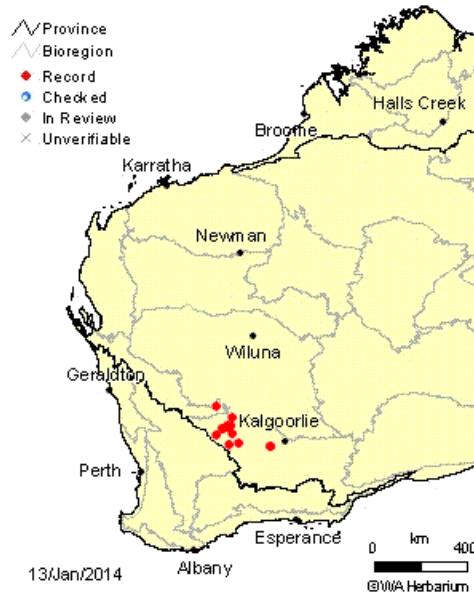


Plate 20: Regional Distribution of *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3) (DPaW 2014a)

**Banksia arborea (P4)**

Dcpmk "ct dqt gc" \*R6+"ku" c"tgg"qt"rti g"uj twd"q": "o "j k j " \*Rrv"43+"qeewtkpi "qp"kt qpuvpgg" j km"qp"uqp {"mqo "uqku" \*F RcY "4236d+0" Vj ku'vzqp"j cu" c"t cpi g"qh"cr r tqzko cvn" "397"no . " Itqo "pget"Y cmlpi "TqemUcvkq"lp"vj g'pqt y "v" Mqqr'cpqddkpi "lp"vj g'uqwj 0" Dcpmk "ct dqt gc" ku'npqy p"itqo "37; "F RcY "tgeqtf u="vj g"o clqtkv "qh"vj gug'tgeqtf u"ctg"mcevgf "qp"r cuvqten'ngcugu" qt "WEN."j qy gxgt"vj gtg"ctg"pwo gtqwu'tgeqtf u"qp" F RcY "o cpci gf "gz"r cuvqten'ucv'kpu" \*O v' Icemuq." Lewfk' cpf " O v' Gxktg+" lp" vj g" O qwpv' O cplpi " o" J grgp" cpf " Cwtqtc" Tcpi gu" Eqpugt'xv'kq" Rctm"cpf "O qwpv' O cplpi " Tcpi g" P cwtg" Tgugtxg" \*Rrv"44+" \*F RcY "4236c+0" "

Vj ku'vzqp"y cu'tgeqtf gf "cv"846"r qkv'mcevkpu"d {"vj ku'uxt'g {"qh"vj g"Uwf {"Ctgc."eqpukv'kpi "qh" cr r tqzko cvn" "4.73: "lpf kxf wcu"0" C"v'cn'qh"4.485"r qkv'mcevkpu"ctg"pqy "npqy p"lp"vj g"Uwf {" Ctgc."eqpukv'kpi "qh"cr r tqzko cvn" "6.86: "lpf kxf wcu" \*Vcdng"8+0" "O quv' mcevkpu" qeevt" qp" dcpf gf "ktqpuvpgg"qwetr u'cpf "unr gu"qh"vj g"Uqwj gtp'Mqqr'cpqddkpi 'Tcpi g."y kj "vj ku'ur gelgu" gz'v'p'kpi "qwu'k'g"vj g"Uwf {"Ctgc"lp"vj ku'j cdkev" \*Hk wtg"802+0" "



Plate 21: *Banksia arborea* (P4) (Photos: Woodman Environmental)

*Banksia arborea*

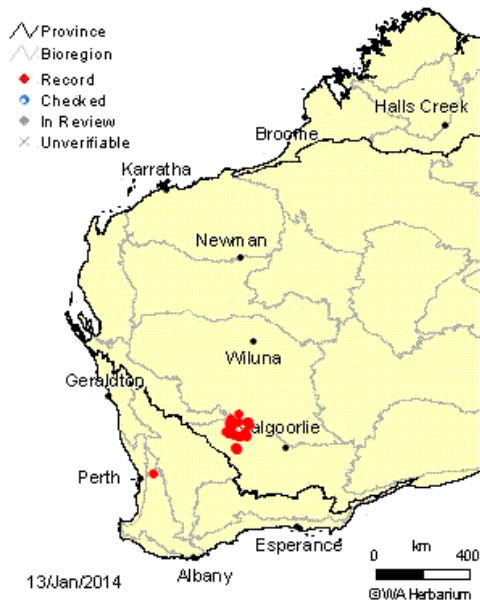


Plate 22: Regional Distribution of *Banksia arborea* (P4) (DPaW 2014a)

*Grevillea erectiloba* (P4)

C"tgeqtf "qh'3"lpf kxf wcn'qh'I t gxnrgc "gt gewydc "R6+"y cu"r t gxlqwun{ "tgeqtf gf "y kj kp"vj g" Uwf {"Ctgc."qp"vj g"etguv'qh'vj g"Uqwj gtp'Mqqn cpqddkpi "Tcpi g"\*Y guwtp"Dqvcplecn'4229/422: "wpr wdrkuj gf "f cvc+0"Vj g"mccvqp"y cu"xlukgf "f wtkpi "vj ku"uwxg{"qh'vj g"Uwf {"Ctgc." j qy gxgt"pq"lpf kxf wcn'eqwf "dg"mccvqf 0"I t gxnrgc "gt gewydc 'ku"pqv'npqy p"vq"qewt"qp"vj g" Uqwj gtp'Mqqn cpqddkpi "Tcpi g"ceeqtf kpi "vq"FRcY ai'f cvdcugu."y kj "vj g"pgctguv'tgeqtf u" mccvqf "cv'vj g"J grpc"cpf "Cwtqtc"Tcpi gu." cr r tqzko cvgn "72"no "pqtj "qh'vj g" Uqwj gtp" Mqqn cpqddkpi "Tcpi g"\*FRcY "4236c+0" Cnj qwi j "kv'ku"r quukdr"vj cv'vj g"ukpi ng"lpf kxf wcn' r t gxlqwun{ "tgeqtf gf "kp"vj g"Uwf {"Ctgc"o c {"j cxg"ugpguegf . 'kv'ku'eqpukf gtgf "o quv'kngr{ "vj cv'vj g"

r t g x k q w u " t g e q t f " k u " g t t q p g q w u . " g k j g t " d { " y c { " q h " t g e q t f k p i " q t " k p r w w ' q h " k p e q t t g e v ' I R U " e q /  
q t f k p c v g u . " q t " o k u k f g p w h e c v k p " q h ' j g " u w r g t h e k e m { " u k o k r c t " I t g x k m g c " / { i q r q d c . " c " v z q p " p q v ' q h "  
e q p u g t x c v k p " u k i p k h e c p e g " y j k e j " y c u ' e q o o q p " c v ' j g " r t g x k q w u n { " t g e q t f g f " i q e c r k v { 0 '  
"



4.1.3 Other Flora of Interest

**Acacia aff. acuaria**

C'eqmgev'k'p'q'h'c'p'Cecekc'y cu'o cf g'lp'yj g'Uwf { "Ctgc'yj cv'j cu'ch'p'k'k'g'u'v'q'Cecekc'cewtkc."c" eqo o qp"ur gelgu'yj cv'ku"pqv'qh'eqpugt'xcv'k'p'uki p'k'k'c'p'eg"cpf "ku'r tgf qo k'p'c'p'v' "h'q'w'p'f' "lp'yj g' Cxqp"Y j gcvdgn'dkqtgi k'p'p."dw'y kj "3"f kulwpev'tgeqtf "lp'yj g'Eqqri ctf kg'dkqtgi k'p'"\*F RcY " 4236c-0"Vj ku'vzqp'y cu'r t'g'x'k'q'w'u'n' t'geqtf gf "lp'yj g'Uwf { "Ctgc'd { "Y guv'g't'p'D'q'v'c'p'k'c'ri'4229/ 422: "w'p'r w'd'r'k'uj gf "f'c'v'c-0"Cecekc'ch'0'cewtkc" \*y' g'eqmgev'gf "v'z'q'p'+f' k'h'g't'u'k'p'ug'x'g't'c'n'f'j c't'c'v'g't'u' h'q'o " Cecekc'cewtkc."k'p'e'n'f' k'p'i "uj q't'v'g't' h'q'y g't'k'p'i "r g'f'w'p'erg'u"cpf "r q'f "o q't'r j q'm'j { " \*D't'w'eg" O cur'k'p'r g't'u'0'eqo o 0'4236-0"Y j k'u'v'k'v'uj c't'g'u'c'h'p'k'k'g'u'v'q'Cecekc'cewtkc."Cecekc'ch'0'cewtkc" o c { "r q'v'g'p'v'c'm'f' t'g'r t'g'ug'p'v'c'ug'r c't'c'v'g'ur gelgu'0"Cecekc'ch'0'cewtkc'ku'c'n'q'np'q'y p'v'q'q'e'w't'lw'u'v' u'q'w'j "q'h'D'w'v'k'p'ej ."c'r'r t'q'z'k'o c'v'g'n' "67"n'o "u'q'w'j /y g'u'v'q'h'yj g'Uwf { "Ctgc"\*D't'w'eg"O cur'k'p'r g't'u'0' eqo o 0'4236-0"K'ku'eqpuk'f'g't'g'f "v'q'd'g'q'h'r q'v'g'p'v'c'n'eqpugt'xcv'k'p'uki p'k'k'c'p'eg"\*D't'w'eg"O cur'k'p'r g't'u'0'eqo o 0'4236-0"Vj g'eqmgev'gf "ur geko gp'q'h'yj ku'g'p'v'k'v'j cu'd'g'g'p'h'q't'y c't'f'gf "v'q'yj g'Y guv'g't'p' C'w'u't'c'k'c'p'J g't'd'c't'k'w'o 'h'q't'q'f'i go gp'0"

Y kj lp'yj g'Uwf { "Ctgc."Cecekc'ch'0'cewtkc'y cu't'g'n'v'x'g'n' "eqo o qp'lp't'g'u't'k'v'g'f'j c'd'k'c'v'd'g'l'p'i " t'geqtf gf "cv'322'm'q'ec'v'k'p'u="; 2'd { "y' ku'uw'x'g' { "q'h'yj g'Uwf { "Ctgc."c'p'f' "32'd { "r t'g'x'k'q'w'u'uw'x'g' { u'lp' yj g'Uwf { "Ctgc"\*Y guv'g't'p'D'q'v'c'p'k'c'ri'4229/422: "w'p'r w'd'r'k'uj gf "f'c'v'c-0"C'v'q'v'c'n'q'h'; 57'lp'f'k'x'f'w'c'u' j c'x'g'd'g'g'p't'geqtf gf 0"C'm'q'ec'v'k'p'u'c't'g'q'p' r'c'v'g't'k'g'f' "k'q'p'u'q'p'g' d't'g'c'n'e'y c { u'c'p'f' "e'r'k'h'u'"\*H'k'i w'g' 8083-0"Q'p'g'r t'g'x'k'q'w'u'n' t'geqtf gf "H' RU'96; ; ; ; 'G.'87: 3; 23'P'lp'Y guv'g't'p'D'q'v'c'p'k'c'ri'4229/422: " w'p'r w'd'r'k'uj gf "f'c'v'c-0"ku'eqpuk'f'g't'g'f "v'q'd'g'g't't'q'p'g'q'w'u."cu'q'p'n' { "y' g'uw'r g't'h'k'c'm' { "u'k'o k'r'c't'Cecekc'ch'0' k'p'v'k'c'w'y cu'h'q'w'p'f'c'v'yj ku'm'q'ec'v'k'p'."c'p'f' "ku'p'q'v'k'p'e'n'f'gf "lp'yj g'c'd'q'x'g'm'q'ec'v'k'p'c'p'f' "lp'f'k'x'f'w'c'u' v'q'v'c'u."q't'q'p'H'k'i w'g'80830"

**Acacia aff. intricata**

C'eqmgev'k'p'q'h'c'p'Cecekc'y cu'o cf g'lp'yj g'Uwf { "Ctgc'yj cv'j cu'ch'p'k'k'g'u'v'q'Cecekc'k'p'v'k'c'w'c."c" eqo o qp"ur gelgu'yj cv'ku"pqv'qh'eqpugt'xcv'k'p'uki p'k'k'c'p'eg"cpf "r tgf qo k'p'c'p'v' "h'q'w'p'f' "lp'yj g' O c'm'g'g'c'p'f' "Cxqp"Y j gcvdgn'dkqtgi k'p'p."dw'y kj "ug'x'g't'c'n'f' kulwpev'tgeqtf u'lp'yj g'Eqqri ctf kg'dkqtgi k'p'"\*F RcY " 4236c-0"Vj ku'eqmgev'k'p'y cu't'g'h'g't'g'f "v'q'cu' Cecekc'k'p'v'k'c'w'lp'Y guv'g't'p' D'q'v'c'p'k'c'ri'422; +=k'ku'ew't'g'p'v' { "t'g'h'g't'g'f "v'q'cu'c'p'c't't'q'y /r j { m'q'f'g'x'c't'k'c'p'v'q'h'Cecekc'k'p'v'k'c'w'c." j q'y g'x'g't'k'v'c'r'r g'c't'u'v'q't'g'r t'g'ug'p'v'c'p'w'p'f' g'u'e't'k'd'g'f "v'z'q'p' \*D't'w'eg"O cur'k'p'r g't'u'0'eqo o 0'4236+:"c'p'f' " c'ee'q't'f' k'p'i n'f'."j cu'd'g'g'p'k'f'g'p'v'k'g'f' "lp'yj ku't'g'r q't'v'cu'Cecekc'ch'0'k'p'v'k'c'w'0"Cecekc'ch'0'k'p'v'k'c'w'c" \*y' g'eqmgev'gf "ur geko gp'+ku'c'n'q'np'q'y p'v'q'q'e'w't'lp'yj g'x'k'k'p'k'v' { "q'h'U'q'w'j g't'p'Et'q'u'u'c'p'f' "O c't'x'g'n' N'q'ej 0" "Vj g'eqpugt'xcv'k'p'uki p'k'k'c'p'eg"q'h' Cecekc'ch'0'k'p'v'k'c'w'c"ku' w'p'np'q'y p'."j q'y g'x'g't'k'v'ku' eqpuk'f'g't'g'f "w'p'r'k'g'n' { "v'q'd'g'q'h'eqpugt'xcv'k'p'uki p'k'k'c'p'eg"\*D't'w'eg"O cur'k'p'r g't'u'0'eqo o 0'4236-0"Vj g' eqmgev'gf "ur geko gp'q'h'Cecekc'ch'0'k'p'v'k'c'w'c"j cu'd'g'g'p'h'q't'y c't'f'gf "v'q'yj g'Y guv'g't'p' C'w'u't'c'k'c'p' J g't'd'c't'k'w'o 'h'q't'q'f'i go gp'0"

Y kj lp'yj g'Uwf { "Ctgc"Cecekc'ch'0'k'p'v'k'c'w'c'y cu't'g'n'v'x'g'n' "eqo o qp'lp't'g'u't'k'v'g'f'j c'd'k'c'v'd'g'l'p'i " t'geqtf gf "cv'92'm'q'ec'v'k'p'u."y kj "42: "lp'f'k'x'f'w'c'u't'geqtf gf 0"C'm'q'ec'v'k'p'u'c't'g'q'p'q'y "t'k'ug'u'y kj " s'w'c't'v' "lp'G'w'ec'n'r'w'u'v'q'q'f'c'p'f' \*H'k'i w'g'8083-0"

**Lepidosperma aff. ferriculmen**

C'eqmgev'k'p'q'h'N'g'r'k'f'q'ur'g't'o'c'y cu'o cf g'lp'yj g'Uwf { "Ctgc'yj cv'j cu'ch'p'k'k'g'u'v'q'N'g'r'k'f'q'ur'g't'o'c' h'g't't'k'ew'o'g'p'."c" F RcY /e'n'c'u'k'k'g'f' "R't'k'q't'k'v' { "3"v'z'q'p'r t'g'x'k'q'w'u'n' t'geqtf gf "h'q'o "O k'f'f'ng'K'q'p'ec'r." m'q'ec'v'g'f' "c'r'r t'q'z'k'o c'v'g'n' "422"n'o "u'q'w'j "q'h'yj g'Uwf { "Ctgc"\*F RcY "4236c-0"N'g'r'k'f'q'ur'g't'o'c'ch'0' h'g't't'k'ew'o'g'p'"\*y' g'eqmgev'gf "ur geko gp'+ku'c'n'q'n'g'n' { "v'q't'g'r t'g'ug'p'v'c'f'k'v'k'p'v'v'z'q'p'."c'p'f' "o c { "d'g'q'h' eqpugt'xcv'k'p'uki p'k'k'c'p'eg"cu'k'v'j cu'p'q'v' d'g'g'p' t'geqtf gf "g'n'g'y j g't'g' "r'q'v'g'p'v'c'm'f' { "t'g'u't'k'v'g'f' +"

\*Twuugni'Dcttgw'r gtu'eqo o 04236+0Vj g'eqmgevfg'ur geko gp"qh'Ngrkf qur gto c "cht0'lgtt kewo gp"  
j cu'dggp'hqty ctf gf "v'j g'Y guvgtp'Cwutcrkcp'J gtdctkwo 'hqt'hqi go gpv0'"

Y kj kp"j g"Uwf { "Ctgc"Ngrkf qur gto c "cht0'lgtt kewo gp"y cu'tgeqtf gf "cv'4"mcecvkpu."y kj ": "  
kpf kxkf wenu'tgeqtf gf 0"Dqj "mcecvkpu'ctg"kp"uj cf gf "ukgu"qp"ny "f qngtkg"j kmu"\*Hki wtg"803+0"  
Vj ku'czqp"y cu'kf gpvkkgf "uwdugs wgpv'v'j ku'wtxg{"qh'j g"Uwf { "Ctgc."cpf "j gtghqtg'ur gekhe"  
ugcte j kpi "hqt"j ku'ur gekgu'kp"j g"Uwf { "Ctgc"y cu'pqv'wpf gvcngp0"J qy gxgt."k'y cu'pqv'pvgf "  
gngy j gtg"kp"j g"Uwf { "Ctgc" f gur kg"ugcte j gu'hqt"qvj gt"eqpugtxcvkqp"uki pkhcecpv'vzc'dgkpi "  
eqpf wevgf "f wtkpi "j ku'wtxg{0"Vj g"j cdkcv'y kj kp"y j lej "j ku'czqp"y cu'tgeqtf gf "\*ny "f qngtkg"  
j kmu"ku"cuq"rko kgf "kp"gzv'v'y kj kp"j g"Uwf { "Ctgc."y kj "j ku"j cdkcv'o quvn{"qwu'kf g"j g"  
Uwf { "Ctgc0"K'ku'j gtghqtg'eqpukf gtgf "j cv'j ku'ur gekgu'ku'wpikngn{"v"qeew"gnugy j gtg"y kj kp"  
j g"Uwf { "Ctgc."y kj "hwtj gt'mcecvkpu'r qv'v'kcm{"qee'wtkpi "qwu'kf g"j g"Uwf { "Ctgc0"

**Daviesia sp. Koolyanobbing**

C "czqp'kf gpvkkgf "cu'Fcxkgukc 'ur 0Mqqn cpqddkpi "y cu'r t'gxlqwn {"tgeqtf gf "kp"j g"Uwf { "Ctgc"  
d {"Y guvgtp"Dqvcplecn"4229/422: "wpr wdtkuj gf "f cvc+"cpf "y cu'eqpukf gtgf "v"dg"c"r qv'v'kcm{"  
wpf guetkdgf "ur gekgu0" Rt gxlqwn {"tgeqtf gf "mcecvkpu"qh' Fcxkgukc "ur 0Mqqn cpqddkpi "y gtg"  
xkukgf "f wtkpi "j ku'wtxg{"qh'j g"Uwf { "Ctgc"v'eqmge'v'ny gt kpi "o cvgtkcn"y kj "j g'hny gt kpi "  
o cvgtkcn'uwdugs wgpv'v' dgkpi "kf gpvkkgf "cu' Fcxkgukc "ueqrctk. "c" czqp"pqv'qh' eqpugtxcvkqp"  
uki pkhcepeg0" Vj g" tgeqtf u" qh' Fcxkgukc "ueqrctk" kp" j g" Uwf { " Ctgc" tgr t'gugpv' c" rcti g"  
f ku'kdw'kqp"gzv'v'kqp" hqt"j ku'czqp="j g'eqmgevfg'ur geko gp"qh' Fcxkgukc "ueqrctk"y km'dg"  
hqtty ctf gf "v'j g'Y guvgtp'Cwutcrkcp'J gtdctkwo 'hqt'hqi go gpv0'

**Santalum spicatum (Sandalwood)**

Ucpwmo 'urkecwo "\*Ucpf cny qqf +ku'pqv'qh'eqpugtxcvkqp"uki pkhcepeg."j qy gxgt"cnegpeg"o c {"  
dg'tgs wtkgf "htqo "F Rcy "wpf gt"j g"Ucpf cny qqf "Cev'3; 4; "\*Y C+"hqt'ku'tgo qxcn"Ucpf cny qqf "  
y cu'eqo o qp"kp"j g"Uwf { "Ctgc"qp"j g"Uqwj gtp'Mqqn cpqddkpi 'Tcpi g."dgkpi "tgeqtf gf "cv'74"  
mcecvkpu"\*Crr gpf kz "N+0

**4.1.4 Introduced Flora Taxa**

C "qvcn'qh'34'kpxtf wegf "hqt"vzc"j cxg'dggp'tgeqtf gf "kp"j g"Uwf { "Ctgc."dgkpi <

- Cegvuc'xgukectk="
- Ecttkej vgtc'c'ppw="
- Egpwv'gc'v'grkxpuk="
- Ergtgwo 'rcrwquwo 'uwdur 0rcrwquwo ="
- Ewewo ku'o {tkqectrwt="
- Gtqf kwo 'cvt gwo ="
- Gtqf kwo 'ekewctkwo ="
- N{ukocejkc'ctxgpuk="
- Ofkeci q'o kpkoc="
- Rgpwo gt ku'cktqf gu'uwur 0'cktqf gu="
- Uqpej wu'qrgtcegwt="cpf "
- Xwrkc'o {wtqu'hqto c'o {wtqu' "

Nqecvkpu'qh'gcej "qh'j gug'hqt"vzc"ctg'r t'gugpv'v'kp"Crr gpf kz "N."cpf "f kur rc {gf "qp'Hki wtg'90'"

Vcdng": "r t'gugpv'v'c" rku'qh'kpxtf wegf "hqt"vzc"tgeqtf gf "kp"j g"Uwf { "Ctgc."vqi gvj gt"y kj "  
mcecvkpu'kpxto cvkqp."cpf "t'v'kpi u'hqt"gcej "kpxtf wegf "vzcqp"wpf gt"j g"Gpxktpo gpcn'Y ggf "  
Utcv'gi {"hqt"Y guvgtp'Cwutcrk"ECNO "3; ; ; +0"Qpn {"tgeqtf u'htqo "j ku'wtxg{"qh'j g"Uwf { "



Ctgc'y gtg"lpenmf gf 0"P qpg"qh'yj g"kvqf wegf "Hqtc"vczc"hwqpf 'y kj kp"qt"cf lcegpv"vq"yj g"Uwf {"  
Ctgc"ctg'F genctgf "Rguu"wpf gt"yj g"Dkqugewt kq"cpf "Ci tlewnwt g"Ocp ci go gpv'Cev'4229"\*DCO "  
Cev" \*Y C+" \*F gr ctvo gpv'qh" Ci tlewnwt g"cpf "Hqf" 4235+" qt" rkwgf "cu" Y ggf u" qh" P cvkqpcn'  
Uki pkkcepeg"\*Cwutcrkcp"Y ggf u'Ego o kwgg"4234+0""

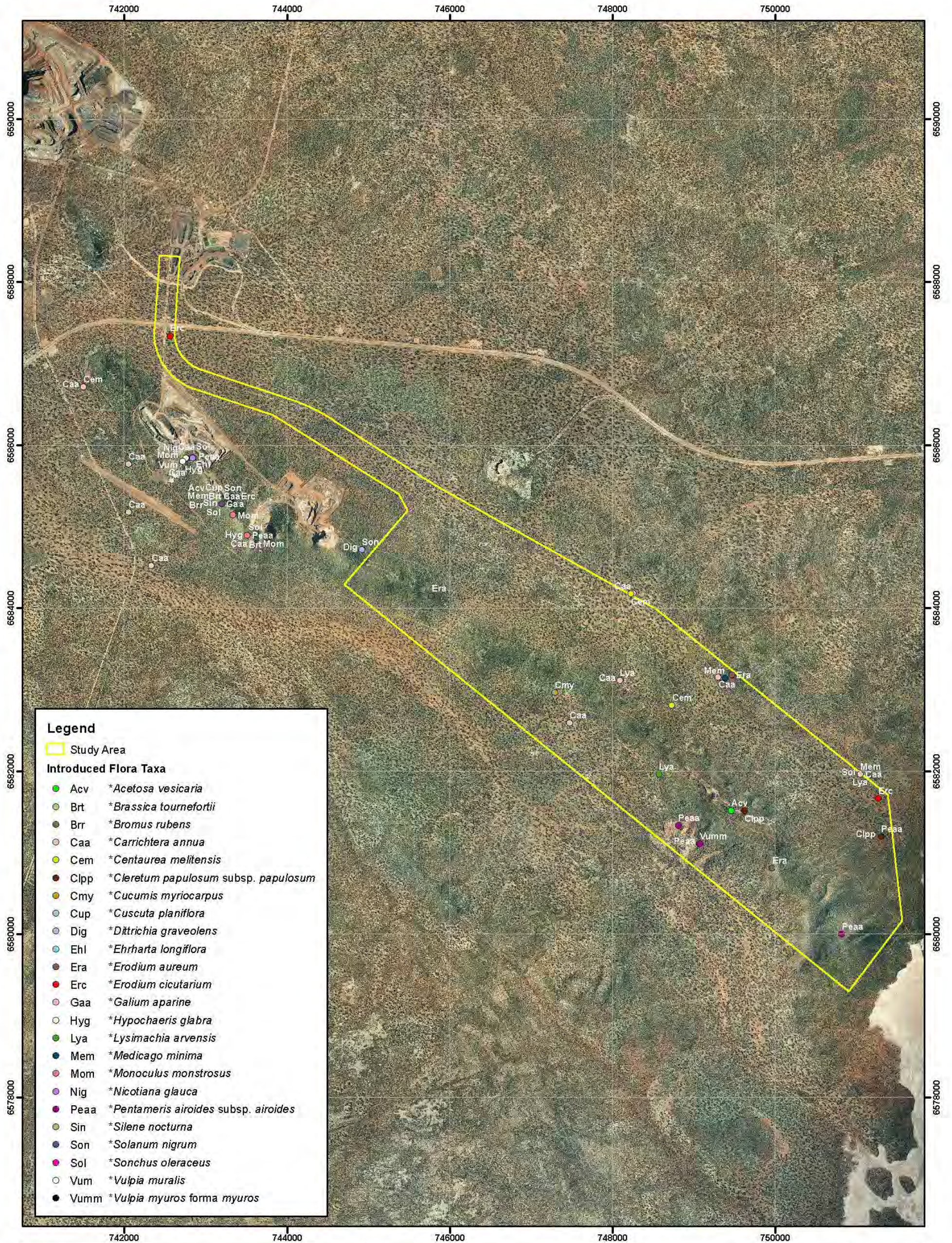


Table 8: Summary of Introduced Taxa Recorded from within the Study Area

Taxon	Number of Locations Recorded in the Study Area	Vegetation Units	Environmental Weeds Rating (CALM 1999)
Cegvuc'xgukectk"	3"	33"	J ki j "
Ecttlej vgtc'cppw"	7"	3."4."32"	J ki j "
Egpcwt gc'o gkxgpuku"	3"	32"	O qf gtcvg"
Ergt gwo 'rcrwqumw 'twdur O'rcrwqumw "	4"	7."32"	VDC"
Ewewo ku'o {tkqectrwu"	3"	3"	VDC"
Gt qf kw "cwt gwo "	5"	3."32."33"	O qf gtcvg"
Gt qf kw "ekewctkw "	4"	3"	O qf gtcvg"
Nfuko cej k"ctxgpuku"	5"	3."32"	O qf gtcvg"
Ogfkeci q'o kpkoc"	4"	3"	O kf "
Rgpcogtku'cktqkf gu'twdur O'cktqkf gu"	6"	4."7."33."38"	O qf gtcvg"
Uqpej wu'qrgtcegwu"	3"	3"	O qf gtcvg"
Xwrk"o {wtqu'qto c"o {wtqu"	3"	4"	O qf gtcvg"

"  
"  
"





This map should only be used in conjunction with WEC report CNR13-02-01.



**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Southern Koolyanobbing Range**  
**Study Area and Introduced Flora Taxa**

Revision: A - December 2013

Author: David Coultas  
WEC Ref: CNR13-02-01  
Filename: CNR13-02-01-f07.mxd  
Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**7**



**Acetosa vesicaria**

Cegvuc'xguctk' "Twd { "F qem'qt "Tqu { "F qem+ku" cp" gtgev." uqww." hguj { . "j qmty /uwo o gf " cppwcn'j gtd"vq"3"o "j ki j . "i gpgtcm { "hqwpf "cncpi "tqcf ukf gu" cpf "kp" f kuwtdgf "ctgcu"qp"ucpf { " cmxkcn'uqkn" cpf "i txcgm { "kqpuvpg"uqkn0"Vj ku"vzqp"qeevtu"v j tqwi j qw"Y guvtp"Cwutcrk" cpf "ku"hqwpf "kp"equcvnc'cpf "kncpf "ctgcu" \*F RcY "4236d+0" Cegvuc'xguctk' "y cu'tcvgf "cu"J ki j " wpf gt "v j g" Gpxkqpo gpvcn'Y ggf "Utcvgi { "hqt"Y guvtp"Cwutcrk" \*ECNO "3; ; ; +0"Vj ku"vzqp" y cu'tgeqtf gf "cv"3"mcecvkqp"kp"v j g"Uwf { "Ctgc."kp"cp"ctgc" f kuwtdgf "d { "r tgxkqu"gzr mtecvkqp" f tknpi "Hki wtg'9+0"K'y cu'r tguvpcu'uecvgtgf "kpf kxf wcu"cv'v j ku'mcecvkqp0""

**Carrichtera annua**

Ecttkej vgtc'cppw "Y ctf u"Y ggf +ku"cp"gtgev." cppwcn'j gtd"vq"206"o "j ki j . "hqwpf "kp"cdwvf cpeg" kp"v j g" I qrf hgrf u" cpf "P wntdqt "uj twdrpf u." cpf "qhvgp" f qo kpcvpi "o kpg"tgi cdkkcvkqp"ukgu" \*J wuug { "gv'c10'4229+0" "Vj ku"vzqp" qeevtu" o ckn { "v j tqwi j qw" v j g" uqwj gtp" ugecvkqp" qh' v j g" Gtgo cgcp"Rtqxkpeg" cpf "cncq"kp"v j g"Uqwj /Y guv'Rtqxkpeg" \*F RcY "4236d+0" Ecttkej vgtc'cppw " y cu'tcvgf "cu"J ki j "wpf gt "v j g" Gpxkqpo gpvcn'Y ggf "Utcvgi { "hqt"Y guvtp"Cwutcrk" \*ECNO " 3; ; ; +0"Vj ku"vzqp"y cu'tgeqtf gf "cv"7"mcecvkqp"kp"v j g"Uwf { "Ctgc."i gpgtcm { "kp"ctgcu" f kuwtdgf " d { "r tgxkqu"gzr mtecvkqp" f tknpi . "dw"qeevcpm { "kp"y gwt"ukgu"kp"tgo pcp'xgi gvcvqp" \*Hki wtg' 9+0"K'y cu"uwcm { "r tguvpcu'uecvgtgf "kpf kxf wcu."j qy gxgt "cv"qpg"mcecvkqp"kv"y cu'tgncvgn { " eqo o qp. "y kj "62"kp f kxf wcu"pqvgf 0"

**Centaurea melitensis**

Egpcwt gc"o grkxpuki" \*O cmug"Eqemur wt+"ku"cp"gtgev." cppwcn'qt" dkgppcn'j gtd"vq"3"o "j ki j . " hqwpf "cncpi "tqcf ukf gu."kp"ewkxcvgf "ctgcu" cpf "kp"qv j gt "f kuwtdgf "ctgcu" \*F RcY "4236d+0"Vj ku" vzqp"qeevtu"kp"v j g"Uqwj /Y guv'cpf "Gtgo cgcp"Rtqxkpegu."qeevttkpi "cu"lct"pqtj "cu" Ectpctxqp" \*F RcY "4236d+0" Egpcwt gc"o grkxpuki"y cu'tcvgf "cu"O qf gtcv"wpf gt"v j g" Gpxkqpo gpvcn'Y ggf " Utcvgi { "hqt"Y guvtp"Cwutcrk" \*ECNO "3; ; ; +0"Vj ku"vzqp"y cu'tgeqtf gf "cv"3"mcecvkqp"kp"v j g" Uwf { "Ctgc."kp"cp"ctgc" f kuwtdgf "d { "r tgxkqu"gzr mtecvkqp" f tknpi " \*Hki wtg'9+0"K'y cu'r tguvpcu' uecvgtgf "kpf kxf wcu"cv'v j ku'mcecvkqp0""

**Cleretum papulosum subsp. papulosum**

Ergt gwo "rcrwnquwo "uwdur O'rcrwnquwo "ku"c"r tqutcvg."uweewrppv." cppwcn'j gtd."vq"206"o "j ki j . " eqo o qpn { "hqwpf "kp" tqem' qwetqr u." mty gt" unqr gu." j knu." xcng { " hrcw" cpf " cv" v j g" dcug" qh" dtgcnxy c { u"qp"ucpf { "mco . "dtqy p"vq"tgf/dtqy p"er { "cpf "i tg { "ucpf { "i txcgn0"Vj ku"vzqp"ku" hqwpf "o ckn { "kp"v j g"Uqwj /Y guv'Rtqxkpeg."y kj "uecvgtgf "tgeqtf u"kp"v j g"cf lcegpv"Gtgo cgcp" Rtqxkpeg" \*F RcY "4236d+0" Ergt gwo "rcrwnquwo "uwdur O'rcrwnquwo "y cu" tcvgf "cu"O kf " \*cu" Oketqr vgtwo "rcrwnquwo " wpf gt" v j g" Gpxkqpo gpvcn'Y ggf " Utcvgi { "hqt"Y guvtp"Cwutcrk" \*ECNO "3; ; ; +0"Vj ku"vzqp"y cu'tgeqtf gf "cv"4"mcecvkqp"kp"v j g"Uwf { "Ctgc."dqj "kp"tgo pcp' xgi gvcvqp" \*Hki wtg'9+0"K'y cu'r tguvpcu'uecvgtgf "kpf kxf wcu"cv'v j g"ug'mcecvkqp0""

**Cucumis myriocarpus**

Enewo ku'o {tkqectrwu" \*Rtleml { "Rcf f { "O gmp+"ku"c"r tqutcvg" cppwcn'j gtd"qeevttkpi "kp" f kuwtdgf " ctgcu" v j tqwi j qw" v j g" Gtgo cgcp" cpf " Uqwj /Y guv' Rtqxkpegu" qh' Y guvtp" Cwutcrk" \*F RcY " 4236d+0"Vj ku"vzqp"ku"qhvgp" hqwpf "i tqy kpi "y kj "Ekt wmu'rcpcwu"kp"r cf f qem. "tqcf ukf gu" cpf " f kuwtdgf "ncpf "v j tqwi j qw"ci tlewwtcr'ctgcu" \*J wuug { "gv'c10'4229+0" Enewo ku'o {tkqectrwu"y cu" pqv'cuuguugf "wpf gt"v j g" Gpxkqpo gpvcn'Y ggf "Utcvgi { "hqt"Y guvtp"Cwutcrk" \*kv"ku"rkugf "cu"vq" dg" cppqwppegf 0" \*ECNO "3; ; ; +0"Vj ku"vzqp"y cu'tgeqtf gf "cv"3"mcecvkqp"kp"v j g"Uwf { "Ctgc." cf lcegpv"vq"c"r tgxkqu"gzr mtecvkqp" vtem" \*Hki wtg'9+0" C"ukpi ng" kpf kxf wcu"y cu"pqvgf "cv"v j ku" mcecvkqp0""



**Erodium aureum**

Gt qf kwo "cwt gwo "ku" c" ur tgc f kpi . "uj qt v r k x g f . "r gt g p p k c n" j g t d" v q" 204" o "j k i j " \*F RcY "4236d+0"  
Vj ku" czqp" ku" hqwpf "cetquu" vj g" gpvktg" nqy gt" j crh' qh" Y guvgt p" Cwutcrk . "cpf "ku" gur gekm{ "  
eqo o qp" qp" r q c o { "uqknu" k p" vj g" ct k f " | q p g" \*J w u u g { "g v' c r 0' 4229+0" Gt qf kwo "cwt gwo "y cu' tcv g f "cu"  
O qf g t c v g" w p f g t " vj g" G p x k t q p o g p v c n' Y g g f " U t c v g i { "h q t" Y g u v g t p" C w u t c r k " \*E C N O " 3 ; ; ; +0" Vj ku"  
czqp" y cu' tgeqtf g f "cv' 5" m e c v k p u" k p" vj g" U w f { "C t g c . " c m' k p" t g o p c p v' x g i g v c v k p " \*H k i w t g' 9+0" K'  
y cu' r t g u g p v' c u' u e c w g t g f " k p f k x k f w c n i' c v' vj g u g' m e c v k p u 0" ""

**Erodium cicutarium**

Gt qf kwo "ekewct kwo " \*Eqo o qp" Uqtmdkm+ "ku" c" f gewo dgpv." cuegp f kpi " qt" gt gev" c p p w c n' q t "  
d k g p p k c n' j g t d" v q" 204" o "j k i j 0" "Vj ku" czqp" ku" c" y g g f " q h' i c t f g p u . " e t q r u" c p f " r c u w t g u" c p f " k u"  
h q w p f " o q u v' e q o o q p n' " k p" vj g" k p" vj g" U q w j / Y g u v' R t q x k p e g" c p f " vj g" n q y g t " G t g o c g c p " R t q x k p e g"  
\*F RcY "4236d+0" Gt qf kwo "ekewct kwo "y cu' tcv g f "cu" O qf g t c v g" w p f g t " vj g" G p x k t q p o g p v c n' Y g g f "  
U t c v g i { "h q t" Y g u v g t p" C w u t c r k " \*E C N O " 3 ; ; ; +0" Vj ku" czqp" y cu' tgeqtf g f "cv' 4" m e c v k p u" k p" vj g"  
U w f { "C t g c . " d q vj " k p" t g o p c p v' x g i g v c v k p " \*H k i w t g' 9+0" K' y c u' r t g u g p v' c u' u e c w g t g f " k p f k x k f w c n i' c v'  
vj g u g' m e c v k p u 0" ""

**Lysimachia arvensis**

Nf uko cej k c "ctxgpuki" \*Rko r gtpgn+ "ku" c" j cktnguu. "ur tgc f kpi "c p p w c n' h q w p f " k p" vj g" U q w j / Y g u v' c p f "  
G t g o c g c p " R t q x k p e g 0" Vj ku" czqp" ku" c" y k f g u r t g c f " y g g f " q h' i c t f g p u . " r c f f q e m u . " i t c p k g' t q e m i' c p f "  
f k u w t d g f " c t g c u" vj t q w i j q w v' vj g" u q w j / y g u v' \*J w u u g { "g v' c r 0' 4229+0" Nf uko cej k c "ctxgpuki" y cu'  
t c v g f " c u" O q f g t c v g" w p f g t " vj g" G p x k t q p o g p v c n' Y g g f " U t c v g i { "h q t" Y g u v g t p" C w u t c r k " \*E C N O "  
3 ; ; ; +0" Vj ku" czqp" y cu' tgeqtf g f "cv' 5" m e c v k p u" k p" vj g" U w f { "C t g c = 3" m e c v k p u" y c u' k p" t g o p c p v'  
x g i g v c v k p . " y k j " 4" m e c v k p u" k p" c t g c u' f k u w t d g f " d { " r t g x k q w u" g z r m t c v k p " f t k r k p i " \*H k i w t g' 9+0" K'  
y c u' e q o o q p " c v' 3" m e c v k p u . " y k j " 72" k p f k x k f w c n i' t g e q t f g f " k p" c" r c t i g' r c v e j . " y k j " u e c w g t g f "  
k p f k x k f w c n i' r t g u g p v' c v' vj g t " m e c v k p u 0" ""

**Medicago minima**

O g f k e c i q' o k p k o c " \*Uo cm' Dwt" O g f k e + "ku" c" r t q u t c v g . " c p p w c n' j g t d" v q" 208" o "j k i j . " h q w p f " q p "  
i t c p k g" c p f " k t q p u w p p g" j k m u . " x c n g { " u n r' g u . " t e p i g r e p f u" c p f " t q c f u k f g u " \*F RcY "4236d+0" " Vj ku"  
v z q p " q e e w t u" vj t q w i j " vj g" g c u v g t p" y j g c v d g n' c p f " c f l c e g p v' r c u v t c n' t g i k p u" h t q o " I g t r e f v p p" v q "  
O c f w t c " \*J w u u g { "g v' c r 0' 4229+0" O g f k e c i q' o k p k o c " y c u' t c v g f " c u" O k f " w p f g t " vj g" G p x k t q p o g p v c n'  
Y g g f " U t c v g i { "h q t" Y g u v g t p" C w u t c r k " \*E C N O " 3 ; ; ; +0" Vj ku" czqp" y cu' tgeqtf g f "cv' 4" m e c v k p u"  
k p" vj g" U w f { "C t g c = d q vj " m e c v k p u" y g t g" k p" t g o p c p v' x g i g v c v k p " \*H k i w t g' 9+0" K' y c u' r t g u g p v' c u'  
u e c w g t g f " k p f k x k f w c n i' c v' d q vj " m e c v k p u 0" ""

**Pentameris airoides subsp. airoides**

R g p w o g t k u' c k t q l f g u' u w d u r 0' c k t q l f g u' \*Hcnug" J c k t i t c u u + "ku" c" f g r k e c v g . " c p p w c n' i t c u u" v q" 2087" o "  
j k i j . " c p f " k u" c" e q o o q p " c p f " y k f g u r t g c f " y g g f " q h' i t c p k g' t q e m u . " y q q f n e p f u . " u j t w d r e p f u" c p f "  
f k u w t d g f " u k g u" vj t q w i j q w v' vj g" u q w j / y g u v' c p f " c f l c e g p v' c t k f " | q p g' q h' Y g u v g t p" C w u t c r k " \*J w u u g { "  
g v' c r 0' 4229+0" Vj ku" czqp" y cu' tcv g f "cu" O qf g t c v g" w p f g t " vj g" G p x k t q p o g p v c n' Y g g f " U t c v g i { "h q t"  
Y g u v g t p" C w u t c r k . " f w g" v q" k u" j k i j " n g x g n' q h' k p x c u k x g p g u u" c p f " y k f g" e w t t g p v' c p f " r q v g p k c n'  
f k u t k d w k p " \*E C N O " 3 ; ; ; +0" Vj ku" czqp" y cu' tgeqtf g f "cv' 6" m e c v k p u" k p" vj g" U w f { "C t g c = c m'  
m e c v k p u" y g t g" k p" t g o p c p v' x g i g v c v k p " \*H k i w t g' 9+0" K' y c u' r t g u g p v' c u' u e c w g t g f " k p f k x k f w c n i' c v' c m i'  
m e c v k p u 0" ""

**Sonchus oleraceus**

U q p e j w u' q r g t c e g w u' \*Uqy vj k u v g + "ku" c p" g t g e v' c p p w c n' j g t d" i t q y k p i " v q" 307" o "j k i j " c p f " q e e w t t k p i "  
vj t q w i j q w v' vj g" u c v g" y k j " m e c v k p u" k p" vj g" M l o d g t n l . " e g p v t c n' Y g u v g t p" C w u t c r k " c p f " k p" vj g" "  
U q w j " Y g u v' \*F RcY "4236d+0" K' k u' y k f g u r t g c f " q p" t q c f u k f g u . " k p" i c t f g p u' c p f " y c u v g r c p f " \*J w u u g { "  
g v' c r 0' 4229+0" U q p e j w u' q r g t c e g w u' y c u' t c v g f " c u" O q f g t c v g" w p f g t " vj g" G p x k t q p o g p v c n' Y g g f "



Utevgi {"hqt"Y guvgtp"Cwutcrk."f wg"vq"ku"j ki j "ngxgn'qh"lpxcukxgpguu"cpf "y kf g"ewtgpv"cpf " r qvpgvknf kntkdwkqp"\*ECNO '3; ; ; +0"Vj ku'vzqp"y cu'tgeqtf gf "cv'3"mcevkqp"lp"vj g"Uwf {"Ctgc." kp'tgo pcpv'xgi gvc'kqp."\*Hki wt'g'9+0"K'y cu'r t'gugpv'cu'uecwtg'gf "kpf kxk wcn0""

**Vulpia myuros forma myuros**

Xwrk'o {wt qu'hqto c'o {wt qu'ku'c'whngf "cppwcn"i tcuu'vq"20"o "j ki j "qeewt'kpi "r tgf qo kpcpv{" kp"vj g"Uqwj /Y guv"Rtqxlpeg."y kj "uecwtg'gf "tgeqtf u"kvq"vj g"cf lcegpv" Gtgo cgcp" Rtqxlpeg" \*FRcY "4236d+0"Vj ku'vzqp"ku"c"y kf gur tgc'f "y ggf "qh'egtgc'netqr u."r cuwtgu"cpf "tgxgi gvc'kqp" ctgcu'vj tqwi j qw'uqwj /y guv"Y guvgtp"Cwutcrk."Htqo "Uj ctn'Dc{"vq"Gur gtcpeg"\*J wuug{"gv'cn0' 4229+0"Xwrk'o {wt qu'hqto c'o {wt qu'y cu'tcvg'f "cu"O qf gtcvg"\*cu"Xwrk'o {wt qu+'w'pf gt"vj g" Gpxkqpo gpv'cn"Y ggf "Utevgi {"hqt"Y guvgtp"Cwutcrk."f wg"vq"ku"j ki j "ngxgn'qh"lpxcukxgpguu"cpf " y kf g"ewtgpv"cpf " r qvpgvknf kntkdwkqp"\*ECNO '3; ; ; +0"Vj ku'ur geku'y cu'tgeqtf gf "cv'3"mcevkqp" kp"vj g"Uwf {"Ctgc."kp'tgo pcpv'xgi gvc'kqp."\*Hki wt'g'9+0"K'y cu'r t'gugpv'cu'uecwtg'gf "kpf kxk wcn0""

Kp'cf f kxkqp"vq"vj g'kvtqf wegf "hqt'c'vzc"r'kugf "cdq'xg."34"kpvtqf wegf "hqt'c'vzc"y gtg'tgeqtf gf "qp" vj g"Uqwj gtp'Mqqr'cpqddkpi 'Tcpi g'q'wuk'f g'qh'vj g"Uwf {"Ctgc"\*Hki wt'g'9+."d'gkpi "<"

- Dt cu'kec "vqwt pglqt vke="
- Dt qo wu't wdgpu="
- Ewuew "r rcpk'htc="
- Fkwt ke'j k' i t c x g q r g p u="
- Gj tj ct v' hpi k'htc="
- I crkwo "crct'kpg="
- J {r qej cgt ku'i r d t c="
- O q p q e w w u 'o q p i w t q u w u="
- P k e q k p c 'i r w e c="
- U k g p g 'p q e w t p c="
- U q r c p w o 'p k i t w o =c p f "
- Xwrk'o wt crku"

Qh'vj g"cdq'xg"kpvtqf wegf "hqt'c'vzc."I crkwo "crct'kpg"ku'r'kugf "cu"c"Rtqj kdkgf "Qti cpkuo "kp" Y guvgtp"Cwutcrk"wpf gt"vj g"Dkq'ugent k'f "cpf "Ci t k e w w t g "O c p c i g o g p v "C e v "4229"\*F gr ctvo gpv' qh"Ci t k e w w t g "c p f "H q q f "4235+."c p f "k u "c "F g e r t g f "R g u v "h q t "v j g "g p v k t g "q h "Y g u v g t p "C w u t c r k 0 " I c r k w o "c r c t k p g "j c u "d g g p "c u u k i p g f "v q "E c v g i q t { "3"\*E3+"o"Gz enwukqp"htq"vj g"y j qm"qh"Y guvgtp" Cwutcrk"wpf gt"vj g"Dkq'ugent k'f "cpf "Ci t k e w w t g "O c p c i g o g p v "T g i w x v k p u "4235"\*I qxgtpo gpv' qh"Y guvgtp"Cwutcrk"4235d+0"C" F gerctgf "Rguv"ku"cuuki pgf "vq"E3"kh"lp"vj g"qr kpkqp"qh"vj g" O k p k u v g t "h q t "C i t k e w w t g + "k p v t q f w e k q p "q h "v j g "R t q j k d k g f "Q t i c p k u o "k p v q "v j g "u e v g "q t "c "r c t v "q h " v j g "u e v g "u j q w f "d g "r t g x g p v g f 0 "V j g "j q r f g t "q h "v j g "r c p f "y j g t g "v j g "R t q j k d k g f "Q t i c p k u o "k u " m e c v g f "o w u v 'w u g "c r r t q x g f "e a p v t q r n o g c u w t g u "c u "c t g "t g c u q p c d r g "q t "p g e g u a c t { "v q "f g u t q { . "r t g x g p v " q t "g t c f l e c v g "v j g "R t q j k d k g f "Q t i c p k u o "I q x g t p o g p v "q h "Y g u v g t p "C w u t c r k "4235d+0"

**4.1.5 Distribution Extensions and Distribution Gaps**

Vcdrg"9"r t'gugpw"vzc"y j gtg"vj g"eqmge'kpu'htqo "vj g"Uwf {"Ctgc"tgr t'gugpv'gz v'g'puk'pu"vq"vj g" npqy p" f kntkdwkqp"qh'uwej "vzc."qt"qvj gty kug"hn'i cr u'y kj kp"vj g"npqy p" f kntkdwkqp"qh'uwej " vzc."cee'qtf kpi "vq"p'cwt'gO cr "FRcY "4236c+0"



**Table 7: Taxa Where Collections Represent Extensions to the Known Distribution of these Taxa, or Fill Distribution Gaps (DPaW 2014a)**

<b>Taxon</b>	<b>Description</b>
<i>Cecelc 'ec gucpgwt c' "pcttqy 'r j { muf gu" xctkcpv"</i>	Gzvpuqkp'qh'npqy p'f kwtldwkqp'v'j g'uqwj "
<i>Cecelc 'f kuqpc'xct'0'kpf qrtk "R5+"</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>E{pqi rquwo "cwatcrg"</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>Fcxkguk'ueqrctk "</i>	Gzvpuqkp'qh'npqy p'f kwtldwkqp'v'j g'pqt v' /gcuv'
<i>Fkny {pk'ur 0Eqni ctf kg' "XG0Uc'p' u" 859GB+"</i>	Gzvpuqkp'qh'npqy p'f kwtldwkqp'v'j g'pqt v' /gcuv'
<i>, Gj tj ctv' "rpi khtc"</i>	Gzvpuqkp'qh'npqy p'f kwtldwkqp'v'j g'pqt v' /gcuv'
<i>Gi go q'j k' "o cew'x'c' 'wdur 0'dt g'x'k'q'k' "</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>O ckt gpc' 'j guk'q'f gu"</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>Qzcrku'gzkku"</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>Rj rgi o c'vur gto wo 'f two o q'p'f k'</i>	Gzvpuqkp'qh'npqy p'f kwtldwkqp'v'j g'pqt v' /gcuv'
<i>Rqf q'gr ku'vgr r g'k'</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"
<i>Vgwet kwo "uguk'k'ht wo "</i>	Eqmge'vqp'hkm'c'rti g'i cr 'y kj kp'v'j g'npqy p'f kwtldwkqp"

"  
"  
"



## 4.2 VEGETATION OF THE STUDY AREA

### 4.2.1 Vegetation Unit Mapping

O cpwcn'f kugevkap"qh'v'j g"mqt kule"ercuukhecvkap"qh'v'j g"3; ; "s wcf tcu" f ghkpgf "38"xgi gvcvkp" wpku"Qh'v'j g"38"xgi gvcvkp"wpku" f ghkpgf . "37"xgi gvcvkp"wpku"qeeu"y kj kp"v'j g"Uwf {"Ctgc0" Qpg"xgi gvcvkp"wpk" \*xgi gvcvkp"wpk"34+f qgu"pqv"qeeu"lp"v'j g"Uwf {"Ctgc."dglpi "tgr tgugpvgf " qpn' "d {"s wcf tcu"qwuif g"qh'v'j g"Uwf {"Ctgc0"Vj g"xgi gvcvkp"wpku" f ghkpgf "dgrpi gf "vq"6"dtqcf " i tqw u"lp"v'j g"mqt kule"ercuukhecvkap" \*ugg"Cr r gpf kz"O = "v'j g"ug"i tqw u"i gpgtcm {"eqttgur qpf gf " vq" f khtkpi "uqk'v' r gu."cpf "y gtg"uwcm {"cnuq"cuuqekvfg "y kj "f khtkpi "vq" qi tcr j kecn'qecvkapu" cpf " vczq" eqo r qukkqp0" " Vj g" htu" i tqw " qh' xgi gvcvkp" wpku" \*xgi gvcvkp" wpku" 3" vq" 9+" eqttgur qpf u"vq"y qaf rpf u" f qo kpcvfg "d {"Gwec' r mu"ur geku"qp"v'j g" hqquqr gu"cpf " cf lcegpv" r rckpu" qh' v'j g" Uqwj gtp" Mqqr'cpqddkpi " Tcpi g0" " Vj g" ugeqpf " i tqw " qh' xgi gvcvkp" wpku" \*xgi gvcvkp" wpku": "vq"33+"eqttgur qpf u"vq" xgi gvcvkp"cuuqekvfg "y kj "v'j g" dcpf gf "kqpuvqpg" hqto cvkapu" qh' v'j g" Uqwj gtp" Mqqr'cpqddkpi " Tcpi g0" " Vj g" v'j kf " i tqw " qh' xgi gvcvkp" wpku" \*xgi gvcvkp" wpku" 34" vq" 37+" eqttgur qpf u" vq" xgi gvcvkp" qp" v'j g" mpy gt" unqr gu" qh' v'j g" Mqqr'cpqddkpi "Tcpi g"cpf "pgctd {"mry "j kmu."y j lej "ctg" kphwpggf "d {"uwdutcvgu"qvj gt"v'j cp" dcpf gf "kqpuvqpg."kpenf kpi "f qrgtkg"cpf "rcvgtkugf "kqpuvqpg0"Vj g" hqt v'j "i tqw "eqpuku"qh'c" ukpi rg"xgi gvcvkp"wpk" \*38+. "y j lej "eqttgur qpf u"y kj "xgi gvcvkp"qp" f gec { kpi "rcvgtkugf "kqpuvqpg" dtgency c { u0

Vj g"mqt kule"ercuukhecvkap" \*ucvkukecn'cpen {uku" i tqw gf "ugxgtcn's wcf tcu"lpvq"xgi gvcvkp"wpk/6" f gur kv"pqv' r quuguukpi "uko krc"ur geku"eqo r qukkqp."vq" qi tcr j kecn'cpf "uqk'ej ctcevgtu"cu"v'j g" o clqtkv {"qh's wcf tcu"v'j g {"j cf "i tqw gf "y kj 0"Vj ku'y cu"cwtkdwgf "vq" s wcf tcu"dglpi "r qukkqpgf " qp" v'j g" dqwpf ctgu" qh' f khtkpv' xgi gvcvkp" wpku" \*y kj kp" geqvqpgu+." y kj " uwej " s wcf tcu" r quuguukpi "c"eqo dlpvcvkap"qh'vczc"htqo "v'j g"4"cf lcegpv' r rcpv'eqo o wpkku0"Vj g"ug"s wcf tcu" y gtg" uwdugs wgpv {" o cpwcm {" cmqecvfg " vq" xgi gvcvkp" wpku" v'j cv' dgwt" tghgevgf " v'j gk" vq" qi tcr j {"uqk'v' r g"cpf " f qo kpcpv"xgi gvcvkp"eqo r qukkqp0"Ugxg" s wcf tcu"y gtg"o qxgf " y kj kp"v'j g"tguwncpv'cpen {uku"=c"rkuv'qh'v'j g"ug"s wcf tcu"cpf "v'j g"tgcupkpi "dgj kp"v'j g"o qxgu"ku" r tqxkf gf "kp"Cr r gpf kz "P 0"

Vcdrg"; "r tgugpvu" c" uwo o ct {"qh' v'j g" xgi gvcvkp" wpku" kp" v'j g" Uwf {"Ctgc" cpf "v'j g" cf lcegpv" o cr r gf "ctgc."kpenf kpi "c" f guetk vkap"qh'v'j g"xgi gvcvkp"wpk."vq"cn'ctgc"o cr r gf "cpf "tgi kpcn' gzvpg0"C"o cr "qh'v'j g"xgi gvcvkp"wpku"ku"r tgugpvgf "lp" Hki wtg": "dgmry 0"Cr r gpf kz "O "r tgugpvu" v'j g" mqt kule"ercuukhecvkap" uwo o ct {" f gpf qi tco " qh' tgr vkapuj kr u" dgw ggp" gcej " s wcf tcu0" Cr r gpf kz "Q"r tgugpvu" c"rkuv'qh'xcuewrt" r rcpv'vczc"tgeqtf gf "kp" gcej "xgi gvcvkp"wpk" \*s wcf tcv' f cv" qpn' +0"Cr r gpf kz "R"r tgugpvu" c"vy q/y c {"vcdrg"qh'v'j g"vczc"cpf "s wcf tcu0"Cr r gpf kz "S " r tgugpvu"uki pkkcpv' kpf kecvq"vczc"ht" gcej "xgi gvcvkp"wpk0"Cr r gpf kz "T"r tgugpvu" f gvckgf " f guetk vkapu"qh'gcej "xgi gvcvkp"wpk."kpenf kpi "tgr tgugpvu"v'j g" r j qvqi tcr j u0



**Table 9: Summary of Vegetation Units Defined in the Study Area and Adjacent Mapped Area "**

P qv< Vqvcu'f q'pqv'kpenmf gf 'ctgcu'o cr r gf 'cu'f gi tcf gf 'xgi gwc'kp 'wpxu'

Vegetation Unit	Description	Extent (ha) in Study Area	Percentage of Study Area	Presence of Significant Flora Taxa	Regional Extent
3"	O kf " y qqf rcpf " qh' o kzgf " ur gelgu" kpenmf kpi " Gwechr r wu' ucw qpqrj nkc." Gwechr r wu' eqt twi cvc." Gwechr r wu' ucw mdi ku." Gwechr r wu' nupi keqt plu" cpf " Gwechr r wu' xkwc v " qxgt " vcm' vq" o kf " ur ctug" uj twd rcpf " f qo kpcvfg " d { " Cvk r ngz " pwo o w r t k c ." Gz q e c t r q u " c r j { m u ." Gt go q r j k c " u e q r c t k c ." U e c g x q r " u r k p g u e p u " c p f " U g p p c " c t v g o k u q k f g u " u w d u r O' h k h t p k c " q x g t " n y " u r c t u g " u j t w d r c p f " f q o k p c v f g " d { " C v k r n g z " x g u e c t k c ." O c k t g c p c " v k e j q r v g t c ." Q r g e t k c " o w n g t k " U e n g t q r v g p c " f k c e c p y c " c p f " T j c i q f k c " f t w o o p p f k k ' q p " t g f . " d t q y p . " q t c p i g " q t " t g f / d t q y p " e r c { . " e r c { " n q c o " c p f " u c p f { " n q c o " y k j " f q n g t k g . " s w c t v " c p f " k q p u v q p g ' u v q p g u ' q p ' r r e k p u . h r w u ' c p f " n y " t k u g u }	87: 0 "	5: 6"	Cecec 'f k u a q p c ' x c t O' k p f q r t k c " *R5+ " Cwnt q n k r c ' d r e n k k " *R5+ " J l d d g r v k c " n g r k f q e c r f z " u w d u r O' w d g t e w r e v " *R5+ " U f r j g r k c ' u r O' D w a n h k p e j " *O O J k u r r " 5796+ " *R5+ " D e p m k c " c t d q t g c " *R6+ " Cecec " c h t O' c e w c t k c " *r q v g p v k c m f " w p f g u e t k d g f + " Cecec " c h t O' k p v k e c v e " *r q v g p v k c m f " w p f g u e t k d g f + " N g r k f q u r g t o c " c h t O' h g t t k e w o g p " *r q v g p v k c m f ' w p f g u e t k d g f + "	Rt g u g p v q w u k f g ' v j g ' U w f { ' C t g c = " P q v' r k n g n { " v q " d g " t g i k a p c m f " t g u t l e v g f . " d c u g f " q p " v z q p " e q o r q u k s k a p " c p f " r c p f h q t o l u q k i v { r g O' }
4"	O kf " v q " n y " y q q f r c p f " f q o k p c v f g " d { " G w e c h r r w u ' t c x f c " c p f " G w e c h r r w u ' e g r u t q l f g u " u w d u r O' e g r u t q l f g u " q x g t " v c m ' v q " o k f " u r c t u g " u j t w d r c p f " f q o k p c v f g " d { " C v k r n g z " p w o o w r t k c " c p f " G t g o q r j k c " u e q r c t k c " q x g t " n y " u r c t u g " u j t w d r c p f " f q o k p c v f g " d { " C v k r n g z " x g u e c t k c ." U e n g t q r v g p c " f k c e c p y c ." O c k t g c p c " v k e j q r v g t c ." O c k t g c p c " i g q t i g k ' c p f " T j c i q f k c " f t w o o p p f k k ' q p " t g f . " d t q y p . " q t c p i g " q t " t g f / d t q y p " e r c { " y k j " f q n g t k g . " s w c t v " c p f " k q p u v q p g ' u v q p g u ' q p ' r r e k p u ' c p f " h r w u }	37; 8"	; 6"	Cecec 'f k u a q p c ' x c t O' k p f q r t k c " *R5+ " J l d d g r v k c " n g r k f q e c r f z " u w d u r O' w d g t e w r e v " *R5+ " N g r k f q u r g t o c ' t g t t k e q r " *R5+ " U f r j g r k c ' u r O' D w a n h k p e j " *O O J k u r r " 5796+ " *R5+ " D e p m k c " c t d q t g c " *R6+ " Cecec " c h t O' c e w c t k c " *r q v g p v k c m f " w p f g u e t k d g f + " Cecec " c h t O' k p v k e c v e " *r q v g p v k c m f " w p f g u e t k d g f + "	Rt g u g p v q w u k f g ' v j g ' U w f { ' C t g c = " P q v' r k n g n { " v q " d g " t g i k a p c m f " t g u t l e v g f . " d c u g f " q p " v z q p " e q o r q u k s k a p " c p f " r c p f h q t o l u q k i v { r g O' }
5"	O kf " y q q f r c p f " f q o k p c v f g " d { " G w e c h r r w u ' n u p i k e q t p l u " c p f " G w e c h r r w u ' x k w c v " q x g t " n y " q r g p ' b o c n g g ' y q q f r c p f " f q o k p c v f g " d { " G w e c h r r w u ' e g r u t q l f g u " u w d u r O' e g r u t q l f g u " q x g t " v c m ' v q " o k f " u r c t u g " u j t w d r c p f " f q o k p c v f g " d { " C v k r n g z " p w o o w r t k c ." G t g o q r j k c " u e q r c t k c ." G z q e c t r q u " c r j { m u ." G t g o q r j k c " k p v g t u c p u " u w d u r O' k p v g t u c p u " c p f " J c r i c p k c " c p f t q o g f h q k c " q x g t " n y " u r c t u g " u j t w d r c p f " f q o k p c v f g " d { " C v k r n g z " x g u e c t k c " c p f " Q r g e t k c " o w n g t k k ' q p " t g f . " d t q y p . " q t c p i g " q t " t g f / d t q y p " e r c { " y k j " f q n g t k g " c p f " s w c t v " u v q p g u ' q p " n y " t k u g u }	: 70 "	70"	Cecec " c h t O' k p v k e c v e " *r q v g p v k c m f " w p f g u e t k d g f + "	Rt g u g p v q w u k f g ' v j g ' U w f { ' C t g c = " P q v' r k n g n { " v q " d g " t g i k a p c m f " t g u t l e v g f . " d c u g f " q p " v z q p " e q o r q u k s k a p " c p f " r c p f h q t o l u q k i v { r g O' }



Vegetation Unit	Description	Extent (ha) in Study Area	Percentage of Study Area	Presence of Significant Flora Taxa	Regional Extent
6"	O'k' " y'q'q'f' r'p'f' " f'q'o' l'p'c'v'g'f' " d'{" G'w'e'c'f'r'w'u' " e'c'r'l'q'u'c' " q't' " G'w'e'c'f'r'w'u' " u'c'w'l't'i'k' " q'x'g't' " v'e'm' " v'q' " o'k' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" G't'g'o' q'r'j' k'e' " q'r'r'q'u'k'i't'y'k' " u'w'd'u'r' O'c'p'i' w'a'l't'y'k' " C'h'z'k' " d'w'z'l't'y'k' " " C'e'c'e'k' " v'g't'c'i' q'p'q'r'j' {m' " c'p'f' " G'z'q'e'c't'r'q'u' " c'r'j' {m'u' " q'x'g't' " n'y' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " q'h' " o'k'z'g'f' " u'r'g'e'l'u' " l'p'e'n'f' l'p'i' " I't'g'x'l'ng'c' " c'e'w'e't'k' " " C'e'c'e'k' " g't'l'p'c'e'g'c' " " Q'r'g'e't'k' " o' w'g'n'g't'k' " T'j' c'i' q'f' k' " f't'w'o' o' q'p'f' k'c'p'f' " C'e'c'e'k' " c'p'f' t'g'y' u'l'k'q'p' " t'g'f' " " d't'q'y' p' " q't' " t'g'f' / d't'q'y' p' " e'r'e' { " y' k'j' " n'e'v't'l'u'g'f' " k'q'p'u'q'p'g' " u'q'p'g'u' " c'p'f' " q'e'e'c'u'l'q'p'c'm' { " y' k'j' " n'e'v't'l'u'g'f' " k'q'p'u'q'p'g' " q'w'e't'q'r' r' l'p'i' " q'p' " u'n'q'r' g'u' " c'f' l'c'e'g'p'v'q' " n'e'v't'l'u'g'f' " d't'g'e'n'e'y' c' { " u'c'p'f' " e'r'i't'h'u'0	550"	30 "	V'g'w't'c'y'j' g'e'c' " g't'w'd'g'u'e'g'p'u' " *R3+ " D'g'l'g't'k' " t'q'u'w'g'n'e'v' " *R3+ " J'k'd'd'g't'v'k' " n'g'r'l'f' q'e'c'r'l'z' " u'w'd'u'r' O' " w'd'g't'e'w'r'e'v' " *R5+ " U'g'p'c'p'y'j' g'o' w'o' " p'g'y' d'g'l'k' " *R5+ " U'f'r'j' g't'k' " l'r' O'D'w'n't'l'p'e'j' " *O' O'J' k'u'r'r' " 5796+ " *R5+ " D'e'p'm'i'k' " c't'd'q't' g'e' " *R6+ " C'e'c'e'k' " c'h't'0' " c'e'w'e't'k' " " *r' q'v'g'p'v'c'm' { " w'p'f' g'u'e't'k'd'g'f' +	N'k'n'g'n' { " v'q' " g'z'v'g'p'f' " q'w'u'l'f' g' " U'w'f' { " C't'g'c' " d'w' " p'q'v' " o' c'r'r' g'f' " *o' c'r'r' l'p'i' " t'g'c'e'j' g'u' " r'k'o' k'v' " q'h' " U'w'f' { " C't'g'c' + " c'u'u'q'e'k'v'g'f' " y' k'j' " n'e'v't'l'u'g'f' " k'q'p'u'q'p'g' " u'w'd'u't'c'v'g' " " O'c' { " d'g' " t'g'i' k'q'p'c'm' { " w'p'e'q'o' o' q'p' " c'p'f' " r' q'u'k'l'd'f' " t'g'u't'l'e'v'g'f' " d'c'u'g'f' " q'p' " v'z'q'p' " e'q'o' r' q'u'k'l'q'p' " c'p'f' " r'c'p'f' h'q't'o' l'u'q'l'd' " v'f'r' g'0
7"	O'k' " v'q' " n'y' " y'q'q'f' r'p'f' " q'h' " G'w'e'c'f'r'w'u' " x'l'w'e'v' " q'x'g't' " o'k' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" C'v't'k'r'ng'z' " p'w'o' o' w'e'i'k' " " G't'g'o' q'r'j' k'e' " q'r'r'q'u'k'i't'y'k' " u'w'd'u'r' O'c'p'i' w'a'l't'y'k' " c'p'f' " " G't'g'o' q'r'j' k'e' " e'c'r'g't'c'v'c' " q'x'g't' " n'y' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " q'h' " o'k'z'g'f' " u'r'g'e'l'u' " l'p'e'n'f' l'p'i' " " Q'r'g'e't'k' " o' w'g'n'g't'k' " " C'e'c'e'k' " g't'l'p'c'e'g'c' " " O'c'h't'g'e'p'c' " i' g'q't'i' g'k' " c'p'f' " " R'v'k'q'w'u' " q'd'q'x'c'w'u' " x'c't'0' q'd'q'x'c'w'u' " q'p' " t'g'f' " q't' " t'g'f' / d't'q'y' p' " e'r'e' { " y' k'j' " k'q'p'u'q'p'g' " c'p'f' " s'w'e't'v' " u'q'p'g'u' " q'p' " n'y' g't' " u'n'q'r' g'u' " q'h' " t'c'p'i' g'u' " c'p'f' " n'y' " t'l'u'g'u'0	860"	50"	J'k'd'd'g't'v'k' " n'g'r'l'f' q'e'c'r'l'z' " u'w'd'u'r' O' " w'd'g't'e'w'r'e'v' " *R5+ " N'g'r'l'f' q'u'r'g't'o'c' " i'g't't'l'e'q'r' " *R5+ " U'g'p'c'p'y'j' g'o' w'o' " p'g'y' d'g'l'k' " *R5+ " D'e'p'm'i'k' " c't'd'q't' g'e' " *R6+ " " "	R't'g'u'g'p'v'q'w'u'l'f' g'v'j' g' " U'w'f' { " C't'g'c' " " P'q'v' " r'k'n'g'n' { " v'q' " d'g' " t'g'i' k'q'p'c'm' { " t'g'u't'l'e'v'g'f' " " d'c'u'g'f' " " q'p' " v'z'q'p' " e'q'o' r' q'u'k'l'q'p' " c'p'f' " r'c'p'f' h'q't'o' l'u'q'l'd' " v'f'r' g'0
8"	O'k' " v'q' " n'y' " o' c'n'g'g' " y'q'q'f' r'p'f' " q'h' " G'w'e'c'f'r'w'u' " e'q't't'w'i'c'v' " c'p'f' l'q't' " G'w'e'c'f'r'w'u' " x'l'w'e'v' " q'x'g't' " v'e'm' " v'q' " o'k' " q'r'g'p' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" G'z'q'e'c't'r'q'u' " c'r'j' {m'u' " " U'g'p'p'c' " c't'v'g'o' k'u'k'l'f' g'u' " u'w'd'u'r' O' " h'h't'y'k' " c'p'f' " " G't'g'o' q'r'j' k'e' " l'p'v'g't'w'e'p'u' " u'w'd'u'r' O' " l'p'v'g't'w'e'p'u' " q'x'g't' " n'y' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" " Q'r'g'e't'k' " o' w'g'n'g't'k' " " C'e'c'e'k' " g't'l'p'c'e'g'c' " " F'q'f'q'p'c'g'c' " i'w'g'p'q'   i'c' " c'p'f' " " R'v'k'q'w'u' " q'd'q'x'c'w'u' " x'c't'0' q'd'q'x'c'w'u' " q'p' " d't'q'y' p' " q't' " t'g'f' / d't'q'y' p' " e'r'e' { " n'y'c'o' " " y' k'j' " " f'q'r'g't'k'g' " u'q'p'g'u' " c'p'f' " q'e'e'c'u'l'q'p'c'm' { " f'q'r'g't'k'g' " q'w'e't'q'r' r' l'p'i' " q'p' " n'y' g't' " u'n'q'r' g'u' " q'h' " t'c'p'i' g'u' " c'p'f' " n'y' " t'l'u'g'u'0	630"	40"	V'g'w't'c'y'j' g'e'c' " g't'w'd'g'u'e'g'p'u' " *R3+ " D'g'l'g't'k' " t'q'u'w'g'n'e'v' " *R3+ " C'e'c'e'k' " f'k'u'q'p'c' " x'c't'0' l'p'f' q'r'q't'k' " *R5+ " U'g'p'c'p'y'j' g'o' w'o' " p'g'y' d'g'l'k' " *R5+ " D'e'p'm'i'k' " c't'd'q't' g'e' " *R6+ " C'e'c'e'k' " c'h't'0' " l'p'v't'k'e'c'v' " " *r' q'v'g'p'v'c'm' { " w'p'f' g'u'e't'k'd'g'f' +	R't'g'u'g'p'v'q'w'u'l'f' g'v'j' g' " U'w'f' { " C't'g'c' " " P'q'v' " r'k'n'g'n' { " v'q' " d'g' " t'g'i' k'q'p'c'm' { " t'g'u't'l'e'v'g'f' " " d'c'u'g'f' " " q'p' " v'z'q'p' " e'q'o' r' q'u'k'l'q'p' " c'p'f' " r'c'p'f' h'q't'o' l'u'q'l'd' " v'f'r' g'0
9"	N'q'y' " q'r'g'p' " o' c'n'g'g' " y'q'q'f' r'p'f' " q'h' " G'w'e'c'f'r'w'u' " e'q't't'w'i'c'v' " c'p'f' " G'w'e'c'f'r'w'u' " n'q'p'i' k'u'k'o'c' " q'x'g't' " v'e'm' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" C'm'q'ec'w'e't'k'p'c' " j' g'w'o' u'l'k' " q'x'g't' " o'k' " u'r'c't'u'g' " u'j' t'w'd'r'e'p'f' " f'q'o' l'p'c'v'g'f' " d'{" " F'q'f'q'p'c'g'c' " i'w'g'p'q'   i'c' " c'p'f' " " C'e'c'e'k' " f'k'u'q'p'c' " x'c't'0' l'p'f' q'r'q't'k' " q'x'g't' " n'y' " l'u'q'r'e'v'g'f' " u'j' t'w'd'u' " q'h' " o'k'z'g'f' " u'r'g'e'l'u' " q'p' " d't'q'y' p' " e'r'e' { " n'y'c'o' " " y' k'j' " " f'q'r'g't'k'g' " u'q'p'g'u' " c'p'f' " u'q'o' g' " f'q'r'g't'k'g' " q'w'e't'q'r' r' l'p'i' " q'p' " n'y' " t'l'u'g'u'0	30"	20"	C'e'c'e'k' " f'k'u'q'p'c' " x'c't'0' l'p'f' q'r'q't'k' " *R5+ " " "	N'k'n'g'n' { " v'q' " g'z'v'g'p'f' " q'w'u'l'f' g' " U'w'f' { " C't'g'c' " d'w' " p'q'v' " o' c'r'r' g'f' " *o' c'r'r' l'p'i' " t'g'c'e'j' g'u' " r'k'o' k'v' " q'h' " U'w'f' { " C't'g'c' + " c'u'u'q'e'k'v'g'f' " y' k'j' " f'q'r'g't'k'g' " u'w'd'u't'c'v'g' " " P'q'v' " r'k'n'g'n' { " v'q' " d'g' " t'g'i' k'q'p'c'm' { " t'g'u't'l'e'v'g'f' " " d'c'u'g'f' " " q'p' " v'z'q'p' " e'q'o' r' q'u'k'l'q'p' " c'p'f' " r'c'p'f' h'q't'o' l'u'q'l'd' " v'f'r' g'0



Vegetation Unit	Description	Extent (ha) in Study Area	Percentage of Study Area	Presence of Significant Flora Taxa	Regional Extent
:	Nqy "kuqrvf" o cnggu' qh' Gwecf' r' wu' r' p' i' k' u' k' o' c' q' t' "Gwecf' r' wu' r' qz' q' r' j' n' d' c' " u' w' d' u' r' O' r' k' u' q' r' j' n' k' e' " q' x' g' t' " v' e' m' i' u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " Ceceke " ur' O' p' c' t' t' q' y' " r' j' { m' f' g' " *D' O' T' O' c' u' r' k' p' " 9: 53+ " c' p' f' " q' e' e' c' u' k' q' p' c' m' { " Ceceke " i' g' v' t' c' i' q' p' q' r' j' { n' e' " q' x' g' t' " o' k' f' " q' r' g' p' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " F' q' f' q' p' c' g' e' " l' p' c' g' s' w' h' t' q' r' k' e' " c' p' f' " U' e' c' g' x' q' r' e' " u' r' l' p' g' u' e' g' p' u' " q' x' g' t' " i' q' y' " k' u' q' r' v' f' " u' j' t' w' d' u' " q' h' i' o' k' z' g' f' " u' r' g' e' k' u' " q' p' " t' g' f' " q' t' " t' g' f' / d' t' q' y' p' " e' r' e' { " y' k' j' " k' t' q' p' u' q' p' g' " u' a' q' p' p' u' " q' p' " i' q' y' " t' k' u' g' u' o' "	40"	20"	/"	Rt g' u' g' p' v' q' w' u' k' f' g' ' v' j' g' ' U' w' f' { ' C' t' g' c' = " O' c' { " d' g' ' t' g' i' k' a' p' c' m' { " w' p' e' q' o' o' q' p' " c' p' f' " r' q' u' i' k' d' n' { " t' g' u' t' k' e' v' g' f' . " d' c' u' g' f' " q' p' " v' e' z' q' p' " e' q' o' r' q' u' i' k' q' p' " c' p' f' " r' e' p' f' h' q' t' o' l' u' q' l' a' i' v' { r' g' o' "
;	Nqy " q' r' g' p' " o' c' n' g' g' " y' q' q' f' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " Gwecf' r' wu' r' qz' q' r' j' n' d' c' " u' w' d' u' r' O' r' k' u' q' r' j' n' k' e' " q' x' g' t' " v' e' m' i' q' r' g' p' " v' q' " u' r' c' t' u' g' " u' j' t' w' d' r' e' p' f' " q' h' i' o' k' z' g' f' " u' r' g' e' k' u' " f' q' o' l' p' c' v' g' f' " d' { " Ceceke " ur' O' v' l' c' e' m' u' q' p' " *D' O' T' { c' p' " 398+ " Ceceke " ur' O' p' c' t' t' q' y' " r' j' { m' f' g' " *D' O' T' O' c' u' r' k' p' " 9: 53+ " Ceceke " i' g' v' t' c' i' q' p' q' r' j' { n' e' " c' p' f' " C' n' g' e' c' i' w' e' c' t' l' p' c' " c' e' m' k' e' c' e' m' k' u' " u' w' d' u' r' O' c' e' m' k' e' c' e' m' k' u' " q' x' g' t' " o' k' f' " q' r' g' p' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " U' e' c' g' x' q' r' e' " u' r' l' p' g' u' e' g' p' u' " G' t' g' o' q' r' j' k' e' " q' r' r' q' u' i' k' h' t' q' r' k' e' " u' w' d' u' r' O' c' p' i' w' a' h' t' q' r' k' e' . " I' t' g' x' l' a' n' g' e' "     i' q' n' d' c' . " F' q' f' q' p' c' g' e' " l' p' c' g' s' w' h' t' q' r' k' e' " c' p' f' " R' j' k' i' q' y' g' e' c' " d' t' w' e' g' k' " u' w' d' u' r' O' d' t' w' e' g' k' " q' x' g' t' " i' q' y' " u' r' c' t' u' g' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " F' q' f' q' p' c' g' e' " o' k' e' t' q' l' i' c' " x' c' t' O' c' e' t' q' n' d' c' v' . " Q' r' g' e' t' k' e' " r' l' o' g' n' k' i' f' g' u' . " R' t' q' u' e' p' y' g' t' c' " u' g' o' k' y' g' t' g' u' " u' w' d' u' r' O' u' g' o' k' y' g' t' g' u' " c' p' f' " Q' r' g' e' t' k' e' " o' w' g' n' g' t' k' " q' p' " t' g' f' . " t' g' f' / d' t' q' y' p' . " q' t' c' p' i' g' / d' t' q' y' p' " q' t' " d' t' q' y' p' " e' r' e' { " q' t' " e' r' e' { / m' q' c' o' " y' k' j' " k' t' q' p' u' q' p' g' " u' a' q' p' p' u' . " q' e' e' c' u' k' q' p' c' m' { " y' k' j' " d' c' p' f' g' f' " k' t' q' p' u' q' p' g' " q' w' e' t' q' r' r' l' p' i' . " q' p' " o' k' f' " v' q' " i' q' y' g' t' " u' n' q' r' g' u' " q' h' i' t' c' p' i' g' u' " c' p' f' " i' q' y' " t' k' u' g' u' o' "	32: 08"	80"	D' e' l' g' i' k' e' " t' q' u' g' n' e' v' e' " *R3+ C' e' c' e' k' e' " f' k' u' a' q' p' c' " x' c' t' O' l' p' f' q' r' i' t' k' e' " *R5+ J' k' d' d' g' t' v' k' e' " n' g' r' l' f' q' e' c' i' f' z' " u' w' d' u' r' O' w' d' g' t' e' w' e' v' e' " *R5+ N' g' r' l' f' q' u' r' g' t' o' c' " i' g' t' t' k' e' q' r' e' " *R5+ U' g' p' c' p' y' g' o' w' o' " p' g' y' d' g' f' k' " *R5+ D' e' p' m' i' k' e' " c' t' d' a' t' g' e' " *R6+ "	Rt g' u' g' p' v' q' w' u' k' f' g' ' v' j' g' ' U' w' f' { ' C' t' g' c' = " O' c' { " d' g' ' t' g' i' k' a' p' c' m' { " w' p' e' q' o' o' q' p' " c' p' f' " r' q' u' i' k' d' n' { " t' g' u' t' k' e' v' g' f' . " d' c' u' g' f' " q' p' " v' e' z' q' p' " e' q' o' r' q' u' i' k' q' p' " c' p' f' " r' e' p' f' h' q' t' o' l' u' q' l' a' i' v' { r' g' o' "
32"	V' e' m' i' q' r' g' p' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " Ceceke " ur' O' v' l' c' e' m' u' q' p' " *D' O' T' { c' p' " 398+ " Ceceke " i' g' v' t' c' i' q' p' q' r' j' { n' e' " c' p' f' " q' e' e' c' u' k' q' p' c' m' { " U' e' p' v' e' m' o' " u' r' k' e' c' w' o' " q' x' g' t' " o' k' f' " q' r' g' p' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " F' q' f' q' p' c' g' e' " l' p' c' g' s' w' h' t' q' r' k' e' . " U' e' c' g' x' q' r' e' " u' r' l' p' g' u' e' g' p' u' . " R' j' k' i' q' y' g' e' c' " d' t' w' e' g' k' " u' w' d' u' r' O' d' t' w' e' g' k' " c' p' f' " G' t' g' o' q' r' j' k' e' " e' r' e' t' n' g' k' " q' x' g' t' " i' q' y' " u' r' c' t' u' g' " u' j' t' w' d' r' e' p' f' " f' q' o' l' p' c' v' g' f' " d' { " R' i' k' i' q' w' u' l' " q' d' q' x' e' w' u' " x' c' t' O' q' d' q' x' e' w' u' " Q' r' g' e' t' k' e' " r' l' o' g' n' k' i' f' g' u' " c' p' f' " T' j' c' i' q' f' k' e' " f' t' w' o' o' q' p' f' k' " q' p' " t' g' f' . " t' g' f' / d' t' q' y' p' " q' t' " d' t' q' y' p' " e' r' e' { " q' t' " e' r' e' { / m' q' c' o' " y' k' j' " k' t' q' p' u' q' p' g' " u' a' q' p' p' u' . " q' h' e' g' p' " y' k' j' " d' c' p' f' g' f' " k' t' q' p' u' q' p' g' " q' w' e' t' q' r' r' l' p' i' . " q' p' " o' k' f' " v' q' " i' q' y' g' t' " u' n' q' r' g' u' " q' h' i' t' c' p' i' g' u' o' "	36: 0 "	: 0 "	V' g' v' t' c' i' y' g' e' c' " g' t' w' d' g' u' e' g' p' u' " *R1+ D' e' l' g' i' k' e' " t' q' u' g' n' e' v' e' " *R3+ C' e' c' e' k' e' " f' k' u' a' q' p' c' " x' c' t' O' l' p' f' q' r' i' t' k' e' " *R5+ C' w' a' t' q' u' i' k' e' " d' r' e' e' n' k' " *R5+ J' k' d' d' g' t' v' k' e' " n' g' r' l' f' q' e' c' i' f' z' " u' w' d' u' r' O' w' d' g' t' e' w' e' v' e' " *R5+ N' g' r' l' f' q' u' r' g' t' o' c' " i' g' t' t' k' e' q' r' e' " *R5+ U' r' c' t' u' y' j' c' o' p' g' n' e' " u' r' O' J' g' i' g' p' c' " ( " C' w' t' q' t' c' " T' c' p' i' g' " *R1 O' C' t' o' u' t' q' p' i' " 377/32; + *R5+ U' g' p' c' p' y' g' o' w' o' " p' g' y' d' g' f' k' " *R5+ D' e' p' m' i' k' e' " c' t' d' a' t' g' e' " *R6+ C' e' c' e' k' e' " c' h' o' c' e' w' e' t' k' e' " *i' q' g' p' v' e' c' m' { " w' p' f' g' u' e' t' k' d' g' f' + "	Rt g' u' g' p' v' q' w' u' k' f' g' ' v' j' g' ' U' w' f' { ' C' t' g' c' = " O' c' { " d' g' ' t' g' i' k' a' p' c' m' { " w' p' e' q' o' o' q' p' " c' p' f' " r' q' u' i' k' d' n' { " t' g' u' t' k' e' v' g' f' . " d' c' u' g' f' " q' p' " v' e' z' q' p' " e' q' o' r' q' u' i' k' q' p' " c' p' f' " r' e' p' f' h' q' t' o' l' u' q' l' a' i' v' { r' g' o' "



Vegetation Unit	Description	Extent (ha) in Study Area	Percentage of Study Area	Presence of Significant Flora Taxa	Regional Extent
33	Nqy "kuqrcvgf" vtggucpf "o cmgguc qh' Gwecfrwu' rpi kuko c." Dcpmkc "ctdqtgc" cpf " Dccej {ej kqp" i tgi qtkk' qxgt" vcm' uj twdrpf "vq" qr gp" uj twdrpf "f qo kpcvgf" d{ " Cecekc "ur O' O v' Lcenuqp "D0T {cp"398+cpf "Cmjeciwctkpc" gt kqej ro {u' uwdur O' gt kqej ro {u' qt "Cmjeciwctkpc" cewkxcnku' uwdur O' cewkxcnku' qxgt" o k' "qr gp" vq" ur ctug" uj twdrpf "f qo kpcvgf" d{ "Rj kqyj gec" dtwegk' uwdur O' dtwegk' T t g x h n g c " / / i q n q d c . ' G t g o q r j k v ' e r t n g k " U e c g x q r " u r k p u e g p u " c p f " N g w e q r q i q p " u r O' E n f g " J k m ' * O ( C O ' D w i o c p " 3 4 2 9 + " q x g t " n y " u r c t u g " u j t w d r p f " q h ' o k z g f " u r g e l g u " k p e n f l p i " Q r g e t k " j w o k h u " R t q u e p y g t c " c n j q l g t k " u w d u r O' c n j q l g t k " J k d d g t v k " g z c u r g t c v " c p f " F k c p g m " t g x q n w c " x c t O' f k c t k e c " q p " t g f . " t g f / d t q y p " e r c { " q t " e r c { / m q c o u " y k j " k t q p u q p g " u q p g u . " w u w c m f " y k j " d c p f g f " k t q p u q p g " q w e t q r r l p i . " q p " v j g ' e t g u u ' c p f " u n r g u ' q h ' t c p i g u O'	53308"	3: 04"	Vgwtc' y' gec' gtwdguepu "R5+" Dgfgtke' t' quogm' v' "R3+" Cwnt quak' c' dr' enkk' "R5+" J k d d g t v k " n g r k f q e c r z " u w d u r O' w d g t e w r v " R 5 + " Ngrkf qur gto c' t' gttkeqr' "R5+" U' ct' v' y' c' o' p' g' m' "ur O' J' g' g' p' c' ( " C' w' t' q' t' c' " T' c' p' i' g' " R' 0' O' C' t' o' u' t' q' p' i' " 3 7 7 / 3 2 ; + " R 5 + " Ugpcpy go wo ' pgy dg/ k' "R5+" Dcpmkc' c' t' d' q' t' g' c' "R6+" Cecekc' c' h' t' o' c' e' w' t' k' c' " * r' q' g' p' v' k' c' m' " w p f g u e t k d g f + "	Rt g u g p v ' q w u k f g ' y j g ' U w f { ' C t g c = " O c { " d g ' t g i k a p c m { " w p e q o o q p " c p f " r q u u k d n { ' t g u t l e v g f . ' d c u g f " q p " v z q p " e q o r q u k k a p " c p f " r e p f h q t o l u q k n i v { r g O'
34	Vcm' uj twdrpf "f qo kpcvgf" d{ " Cecekc "ur O' pttqy " r j { m f g " *D0T O' O curk" 9: 53+ " cpf " qeecukqpcmf " Cecekc " ecgucpwtc " *pttqy " r j { m f g u' xctkcpv+ " qxgt " o k' " vq " n y " q r g p " u j t w d r p f " f q o k p c v g f " d { " N g w e q r q i q p " u r O' E n f g " J k m ' * O ( C O ' D w i o c p " 3 4 2 9 + " R t q u e p y g t c " u g o k g t g u " u w d u r O' u g o k g t g u " O k d g r k " o l e t q r j l m c " c p f " q e e c u k q p c m { " R j k q y j g e c " d t w e g k ' u w d u r O' d t w e g k ' q p " t g f " q t " t g f / d t q y p " e r c { " q t " e r c { " m q c o u " y k j " s w c t v " c p f " k t q p u q p g " u q p g u " q p " n y g t " u n r g u ' q h ' t c p i g u " c p f " n y " t l u g u O'	P q v l p ' U w f { " C t g c "	P q v l p ' U w f { " C t g c "	/ "	Q p n { " r t g u g p v " q w u k f g " y j g " U w f { " C t g c = " O c { " d g ' t g i k a p c m { " w p e q o o q p " c p f " r q u u k d n { ' t g u t l e v g f . ' d c u g f " q p " v z q p " e q o r q u k k a p " c p f " r e p f h q t o l u q k n i v { r g O'
35	Vcm' uj twdrpf "f qo kpcvgf" d{ " Cmjeciwctkpc " gt kqej ro {u' uwdur O' gt kqej ro {u' " Ogrngwec " j co c v " cpf " qeecukqpcmf " Cecekc' ukdkpc " qxgt " o k' " vq " n y " u r c t u g " u j t w d r p f " f q o k p c v g f " d { " I t g x h n g c " / / i q n q d c . " J g o k i g p k " d t c e j { r j f n v . " J k d d g t v k " g c v p k g " c p f " N g w e q r q i q p " u r O' E n f g " J k m ' * O ( C O ' D w i o c p " 3 4 2 9 + " q p " t g f / " q t " q t c p i g / d t q y p " e r c { " q t " e r c { " m q c o u " y k j " r e v g t k g . " k t q p u q p g " c p f " s w c t v " u q p g u " q p " n y g t " u n r g u " q h ' t c p i g u O'	550 "	40"	Ngrkf qur gto c' t' gttkeqr' "R5+" Ugpcpy go wo ' pgy dg/ k' "R5+" Dcpmkc' c' t' d' q' t' g' c' "R6+"	N l a n g n { " v q " g z v g p f " q w u k f g " U w f { " C t g c " d w " p q v " o c r r g f " * o c r r l p i " t g c e j g u " n o k v " q h " U w f { " C t g c + " c u u q e l e v g f " y k j " r e v g t k g l k t q p u q p g " u w d u t c v g = " O c { " d g ' t g i k a p c m { " w p e q o o q p " c p f " r q u u k d n { ' t g u t l e v g f . ' d c u g f " q p " v z q p " e q o r q u k k a p " c p f " r e p f h q t o l u q k n i v { r g O'
36	Vcm' uj twdrpf "f qo kpcvgf" d{ " Cmjeciwctkpc " gt kqej ro {u' uwdur O' gt kqej ro {u' " Cecekc "ur O' pttqy " r j { m f g " *D0T O' O curk" 9: 53+ " Cecekc "ur O' O v' Lcenuqp "D0T {cp"398+cpf " Ogrngwec " j co c v " qxgt " o k' " vq " n y " u r c t u g " u j t w d r p f " q h ' o k z g f " u r g e l g u " q h g p " f q o k p c v g f " d { " R t q u e p y g t c " u g o k g t g u " u w d u r O' u g o k g t g u " q p " t g f " q t " t g f / d t q y p " e r c { " q t " e r c { " m q c o u " y k j " f q r g t k g . " k t q p u q p g " c p f " s w c t v " u q p g u " q p " o k " c p f " n y g t " u n r g u " q h ' t c p i g u O'	3307"	20"	Ugpcpy go wo ' pgy dg/ k' "R5+" "	N l a n g n { " v q " g z v g p f " q w u k f g " U w f { " C t g c " d w " p q v " o c r r g f " * o c r r l p i " t g c e j g u " n o k v " q h " U w f { " C t g c + " c u u q e l e v g f " y k j " f q r g t k g l k t q p u q p g = " P q v l r k n g n { " v q " d g " t g i k a p c m { " t g u t l e v g f . " d c u g f " q p " v z q p " e q o r q u k k a p " c p f " r e p f h q t o l u q k n i v { r g O'



Vegetation Unit	Description	Extent (ha) in Study Area	Percentage of Study Area	Presence of Significant Flora Taxa	Regional Extent
37	Nqy "qr gp"o cmgg"y qqf rcpf "qh'Gwecf r wu'gy ct wpc'qxt "vni" uj twdrpf "f qo kpcvgf" d{ " Ceceke "ur 0'pcttqy " rj { nqf g" *D0f 0' O curk" 9: 53+" qxgt" nqy " ur ctug" uj twdrpf " f qo kpcvgf" d{ " J { dcpvj wu' hqt kwpf wu' uwdur 0' ewt xkqkku' qp" tgf / dtqy p" erc { " y kj " f qngt kg" cpf " s wct v' " r gddngu' qp" nqy " t kugu 0' "	3; 8"	38"	Ceceke "f kuqpc "xct 0' kpf qrtk " *R5+" Cmut qukr c " dr: enkk " *R5+" "	Nkngn{ " vq" gz vgpf " qwukf g" Uwf { " Ctgc" dw' pqv' o cr r gf " *o cr r lpi " tgeej gu" rko k' qh' Uwf { " Ctgc+:" cuuqekcvgf "y kj " f qngt kg' uwdur cvg:-- P qv' rkngn{ " vq" dg" tgi kqpcmf { " tgvtkvgf." dcugf " qp" vczqp" eqo r qukkqp" cpf " rcpf hqto luqki' v{ r g0'
38	Vcm'qr gp"uj twdrpf "f qo kpcvgf" d{ " Cmgecuwctkpc "cewkkcnku" uwdur 0'cewkkcnku "Ecnkt ku'eqmo gnr tku "O grvrgwec "j co cvc" cpf "O grvrgwec "rgkqectrc "qxgt" o k' "vq" nqy "ur ctug" uj twdrpf " f qo kpcvgf" d{ " Crfzkc " dwzktqkc." Zgt qnt kqp" f kct kccv." J kddgtvk "ngr kf qecrf z" uwdur 0' wldgtewrc." Rj kqyj gec "dtwegk" uwdur 0' dtwegk" cpf " Uf rj grke "ur 0' Dwnhkej " *O 0' J kurr "5796+" qp" rki j v' dtqy p" erc { " y kj " r vgt kugf " k qpuvqpg" uvqpgu" qxgt" r vgt kugf " k qpuvqpg" qwetqr r lpi " qp" dtgcney c { u0'	370 "	20 "	J kddgtvk " ngr kf qecrf z" uwdur 0' wldgtewrc " *R5+" Ngr kf qur gto c " rgt kqrc " *R5+" Uf rj grke "ur 0' Dwnhkej " *O 0' J kurr "5796+" *R5+" Ceceke " ch0' cewtkc " *r qvkvcmf { " wpf guetkdgf +"	Nkngn{ " vq" gz vgpf " qwukf g" Uwf { " Ctgc" dw' pqv' o cr r gf " *o cr r lpi " tgeej gu" rko k' qh' Uwf { " Ctgc+:" cuuqekcvgf "y kj " f qngt kg' uwdur cvg:-- O c { " dg' tgi kqpcmf { " wpeqo o qp" cpf " r quukdn { " tgvtkvgf . " dcugf " qp" vczqp" eqo r qukkqp" cpf " rcpf hqto luqki' v{ r g0'





This map should only be used in conjunction with WEC report CNR13-02-01.

**Cliffs Asia Pacific Iron Ore Pty Ltd**  
**Southern Koolyanobbing Range**  
**Vegetation Units**

Revision: A - 21 December 2013

Author: David Coultas  
 WEC Ref: CNR13-02-01  
 Filename: CNR13-02-01-f08.mxd

Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**8**



Legend	
	Study Area
	Adjacent Mapped Area
Vegetation Units	
	1 Mid woodland of mixed species including <i>Eucalyptus salmonophloia</i> , <i>Eucalyptus corrugata</i> , <i>Eucalyptus salubris</i> , <i>Eucalyptus longicornis</i> and <i>Eucalyptus vittata</i> over tall to mid sparse shrubland dominated by <i>Atriplex nummularia</i> , <i>Exocarpos aphyllus</i> , <i>Eremophila scoparia</i> , <i>Scaevola spinescens</i> and <i>Senna artemisioides</i> subsp. <i>filifolia</i> over low sparse shrubland dominated by <i>Atriplex vesicaria</i> , <i>Maireana trichoptera</i> , <i>Olearia muelleri</i> , <i>Sclerolaena diacantha</i> and <i>Rhagodia drummondii</i> on red, brown, orange or red-brown clay, clay loam and sandy loam with dolerite, quartz and ironstone stones on plains, flats and low rises.
	2 Mid to low woodland dominated by <i>Eucalyptus ravidia</i> and <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> over tall to mid sparse shrubland dominated by <i>Atriplex nummularia</i> and <i>Eremophila scoparia</i> over low sparse shrubland dominated by <i>Atriplex vesicaria</i> , <i>Sclerolaena diacantha</i> , <i>Maireana trichoptera</i> , <i>Maireana georgei</i> and <i>Rhagodia drummondii</i> on red, brown, orange or red-brown clay with dolerite, quartz and ironstone stones on plains and flats.
	3 Mid woodland dominated by <i>Eucalyptus longicornis</i> and <i>Eucalyptus vittata</i> over low open mallee woodland dominated by <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> over tall to mid sparse shrubland dominated by <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Exocarpos aphyllus</i> , <i>Eremophila interstans</i> subsp. <i>interstans</i> and <i>Halgania andromedifolia</i> over low sparse shrubland dominated by <i>Atriplex vesicaria</i> and <i>Olearia muelleri</i> on red, brown, orange or red-brown clay with dolerite and quartz stones on low rises.
	4 Mid woodland dominated by <i>Eucalyptus capillosa</i> or <i>Eucalyptus salubris</i> over tall to mid sparse shrubland dominated by <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Alyxia buxifolia</i> , <i>Acacia tetragonophylla</i> and <i>Exocarpos aphyllus</i> over low sparse shrubland of mixed species including <i>Grevillea acuaria</i> , <i>Acacia erinacea</i> , <i>Olearia muelleri</i> , <i>Rhagodia drummondii</i> and <i>Acacia andrewsii</i> on red, brown or red-brown clay with laterised ironstone stones and occasionally with laterised ironstone outcropping on slopes adjacent to lateritic breakaways and cliffs.
	5 Mid to low woodland of <i>Eucalyptus vittata</i> over mid sparse shrubland dominated by <i>Atriplex nummularia</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> and <i>Eremophila caperata</i> over low sparse shrubland of mixed species including <i>Olearia muelleri</i> , <i>Acacia erinacea</i> , <i>Maireana georgei</i> and <i>Ptilotus obovatus</i> var. <i>obovatus</i> on red or red-brown clay with ironstone and quartz stones on lower slopes of ranges and low rises.
	6 Mid to low mallee woodland of <i>Eucalyptus corrugata</i> and/or <i>Eucalyptus vittata</i> over tall to mid open shrubland dominated by <i>Exocarpos aphyllus</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> and <i>Eremophila interstans</i> subsp. <i>interstans</i> over low sparse shrubland dominated by <i>Olearia muelleri</i> , <i>Acacia erinacea</i> , <i>Dodonaea stenozyga</i> , and <i>Ptilotus obovatus</i> var. <i>obovatus</i> on brown or red-brown clay loam with dolerite stones and occasionally dolerite outcropping on lower slopes of ranges and low rises.
	7 Low open mallee woodland of <i>Eucalyptus corrugata</i> and <i>Eucalyptus longissima</i> over tall shrubland dominated by <i>Allocasuarina helmsii</i> over mid sparse shrubland dominated by <i>Dodonaea stenozyga</i> and <i>Acacia dissona</i> var. <i>indoloria</i> over low isolated shrubs of mixed species on brown clay loam with dolerite stones and some dolerite outcropping on low rises.
	8 Low isolated mallees of <i>Eucalyptus longissima</i> or <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> over tall shrubland dominated by <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) and occasionally <i>Acacia tetragonophylla</i> over mid open shrubland dominated by <i>Dodonaea inaequifolia</i> and <i>Scaevola spinescens</i> over low isolated shrubs of mixed species on red or red-brown clay with ironstone stones on low rises.
	9 Low open mallee woodland dominated by <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> over tall open to sparse shrubland of mixed species dominated by <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Acacia tetragonophylla</i> and <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> over mid open shrubland dominated by <i>Scaevola spinescens</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Grevillea zygodoba</i> , <i>Dodonaea inaequifolia</i> and <i>Philotheca brucei</i> subsp. <i>brucei</i> over low sparse shrubland dominated by <i>Dodonaea microzyga</i> var. <i>acrolobata</i> , <i>Olearia pimelioides</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> and <i>Olearia muelleri</i> on red, red-brown, orange-brown or brown clay or clay-loam with ironstone stones, occasionally with banded ironstone outcropping, on mid to lower slopes of ranges and low rises.
	10 Tall open shrubland dominated by <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Acacia tetragonophylla</i> and occasionally <i>Santalum spicatum</i> over mid open shrubland dominated by <i>Dodonaea inaequifolia</i> , <i>Scaevola spinescens</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> and <i>Eremophila clarkei</i> over low sparse shrubland dominated by <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Olearia pimelioides</i> and <i>Rhagodia drummondii</i> on red, red-brown or brown clay or clay-loam with ironstone stones, often with banded ironstone outcropping, on mid to lower slopes of ranges.
	11 Low isolated trees and mallees of <i>Eucalyptus longissima</i> , <i>Banksia arborea</i> and <i>Brachychiton gregorii</i> over tall shrubland to open shrubland dominated by <i>Acacia</i> sp. Mt Jackson (B. Ryan 176) and <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> or <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> over mid open to sparse shrubland dominated by <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Grevillea zygodoba</i> , <i>Eremophila clarkei</i> , <i>Scaevola spinescens</i> and <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) over low sparse shrubland of mixed species including <i>Olearia humilis</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Hibbertia exasperata</i> and <i>Dianella revoluta</i> var. <i>divaricata</i> on red, red-brown or brown clay or clay-loam with ironstone stones, usually with banded ironstone outcropping, on the crests and slopes of ranges.
	12 Tall shrubland dominated by <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) and occasionally <i>Acacia caesaneura</i> (narrow phyllodes variant) over mid to low open shrubland dominated by <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> , <i>Mirbelia microphylla</i> and occasionally <i>Philotheca brucei</i> subsp. <i>brucei</i> on red or red-brown clay or clay loams with quartz and ironstone stones on lower slopes of ranges and low rises.
	13 Tall shrubland dominated by <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> , <i>Melaleuca hamata</i> and occasionally <i>Acacia sibina</i> over mid to low sparse shrubland dominated by <i>Grevillea zygodoba</i> , <i>Hemigenia brachyphylla</i> , <i>Hibbertia eatoniae</i> and <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) on red- or orange-brown clay or clay loams with laterite, ironstone and quartz stones on lower slopes of ranges.
	14 Tall shrubland dominated by <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> , <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Acacia</i> sp. Mt Jackson (B. Ryan 176) and <i>Melaleuca hamata</i> over mid to low sparse shrubland of mixed species often dominated by <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> on red or red-brown clay or clay loams with dolerite, ironstone and quartz stones on mid and lower slopes of ranges.
	15 Low open mallee woodland of <i>Eucalyptus ewartiana</i> over tall shrubland dominated by <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) over low sparse shrubland dominated by <i>Hybanthus floribundus</i> subsp. <i>curvifolius</i> on red-brown clay with dolerite and quartz pebbles on low rises.
	16 Tall open shrubland dominated by <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> , <i>Callitris columellaris</i> , <i>Melaleuca hamata</i> and <i>Melaleuca leiocarpa</i> over mid to low sparse shrubland dominated by <i>Alyxia buxifolia</i> , <i>Xerolirion divaricata</i> , <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> and <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) on light brown clay with laterised ironstone stones over laterised ironstone outcropping on breakaways.
Other Mapped Areas	
	1D Degraded Area of 1
	4D Degraded Area of 4
	6D Degraded Area of 6
	8D Degraded Area of 8
	10D Degraded Area of 10
	11D Degraded Area of 11
	C Cleared Land

<p>This map should only be used in conjunction with WEC report CNR13-02-01.</p>		<b>Cliffs Asia Pacific Iron Ore Pty Ltd</b> <b>Southern Koolyanobbing Range</b> <b>Vegetation Units</b>	Author: David Coultas WEC Ref: CNR13-02-01 Filename: CNR13-02-01-f08.mxd	<b>Figure</b>  <b>8</b>
		Revision: A - 21 December 2013	Scale: 1:40,000 (A3) Grid: MGA Zone 50	



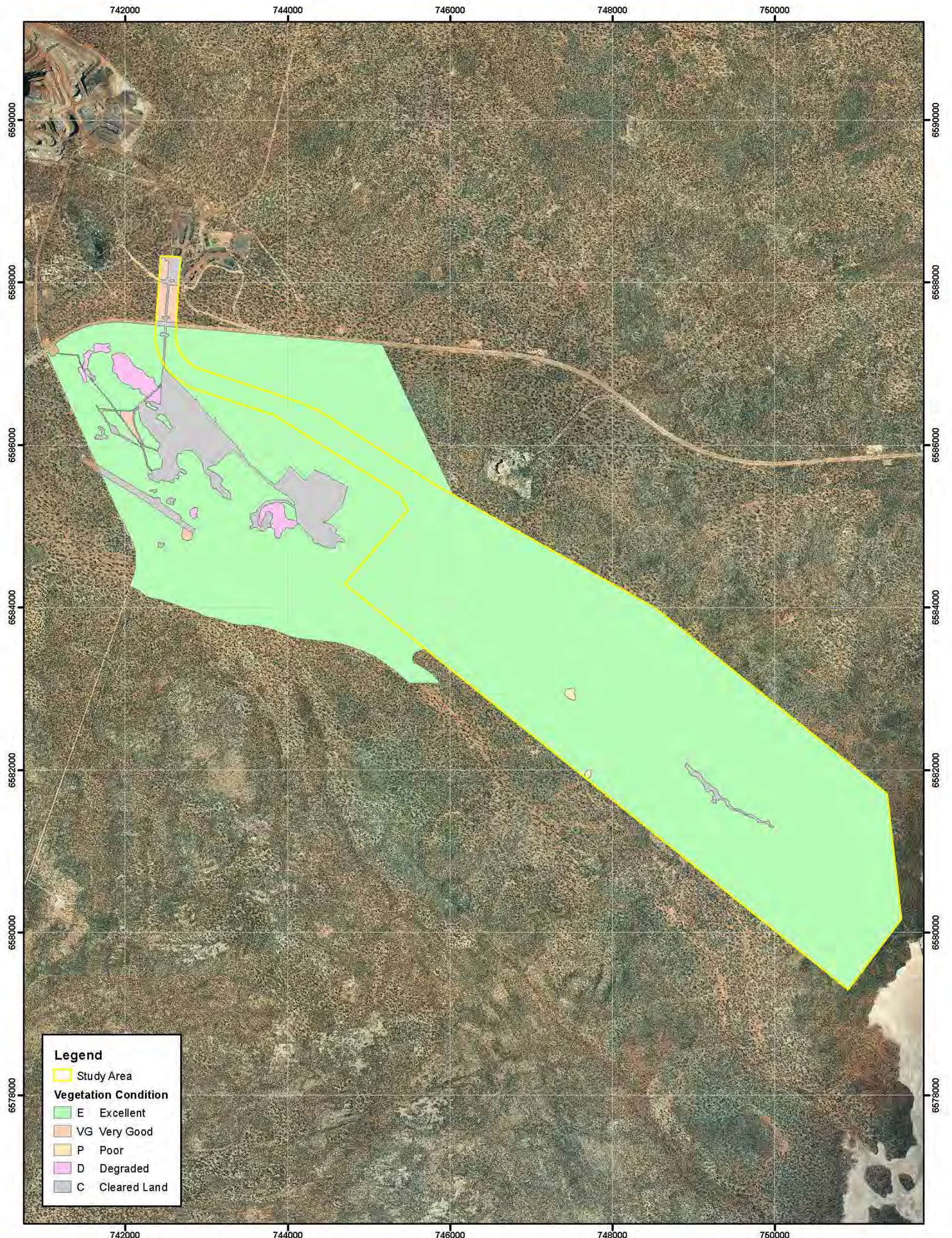
#### 4.2.2 Other Areas Mapped

Ugxgten'ctgcu"y gtg"o cr r gf "cu" f gi tef gf "hqt o u"qh"o cr r gf "xgi gvcvkp"wpku."qt"cu" :Ergetgf " rcpf ø" \*Hki wtg": +0" Vj gug"ctgcu"j cxg"r t g x k q w u n { " d g g p " f k u w t d g f " d { " o k p k p i " c p f " g z r m t c v k p " c e v x k k g u 0 ""

#### 4.2.3 Vegetation Condition

Xgi gvcvkp"eqpfkkp"o cr r kpi "r qn(i qpu"ht"j g"Uwf { "Ctgc"ctg"r t g u g p v g f " q p " H k i w t g " ; 0 " " V j g " o c l q t k { " q h " j g " x g i g v c v k p " k p " j g " U w f { " C t g c " y c u " t c p n g f " c u " : G z e g m g p w ø " \* M g k i j g t { " 3 ; ; 6 = C r r g p f k z " H t : " y k j " j g " x g i g v c v k p " d g k p i " r t k u k p g " q t " p g c t n { " u q . " y k j " p q " q d x k q w u " u k i p u " q h " f k u w t d c p e g 0 " Y g g f " v z c " \* h " c p { + " y g t g " r t g u g p v " c v " m y " r g x g n u . " c p f " i g p g t c m { " c u u q e k v g f " y k j " r t g x k q w u n { " f k u w t d g f " c t g c u " \* H k i w t g " ; + 0 " " U g x g t e n ' r q n ( i q p u " y g t g " t c p n g f " m y g t " j c p " : G z e g m g p w ø " \* : X g t { " I q q f ø q t " : R q q t ø : " f w g " v q " f k u w t d c p e g " h t q o " o k p k p i / t g r v g f " c e v x k k g u 0 " "





**Legend**

- Study Area
- Vegetation Condition**
- E Excellent
- VG Very Good
- P Poor
- D Degraded
- C Cleared Land

woodmanenvironmentalconsulting

This map should only be used in conjunction with WEC report CNR13-02-01.

**Cliffs Asia Pacific Iron Ore Pty Ltd  
Southern Koolyanobbing Range  
Vegetation Condition**

Revision: A - 21 December 2013

Author: David Coultas  
WEC Ref: CNR13-02-01  
Filename: CNR13-02-01-f09.mxd  
Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure**  
**9**



#### 4.2.4 Threatened Ecological Communities

P q'VGEu'kugf 'wpf gt 'y g'GRDE'Cev'y gtg'tgeqtf gf 'kp'y g'Uwf { 'Ctgc'\*F qG'4235+0''  
"

P q'FRcY /ercuukhgf "VGEu'y gtg'tgeqtf gf 'kp'y g'Uwf { 'Ctgc'\*FRcY "4235h0''

#### 4.2.5 Priority Ecological Communities

Qpg'FRcY /ercuukhgf "RGE'ku'tgeqtf gf 'd { 'FRcY "cu'eqkpekf kpi 'y kj 'y g'Uwf { 'Ctgc.'dglpi =

- RGE "Mqqn'cpqddkpi "xgi gvcvqp"eqo r ngzgu" \*dcpf gf "kqpuvqp" hqto cvkq+0' \*Rtkqtkv {  
3+0'

"

C'Rtkqtkv { "3'RGE'ku'f ghkpgf 'd { 'FRcY "4232+'cu'cp"geqmi kcn'eqo o wplv { 'y cv'ku'npqy p'htqo " xgt { "hgy "qeewtgpegu"y kj "c"xgt { "tgu'k'evgf "f kwtkdwkq "i gpgtcm { "Ö7"qeewtgpegu"qt "c"vqcn' ctgc"qh'Ö322j c+0"Qeewtgpegu"ctg'dg'k'xgf "v"dg"wpf gt "y tgc'v'gkj gt "f wg"v"ko kgf "gz'v'p"qt " dgkpi "qp"rcpf u'wpf gt "ko o gf kw'v'y tgc'v" \*g'0'y kj kp'ci tle'w'w'cn'qt "r cu'q'cn'rcpf u.'vtdcp'ctgcu." cev'xg"o kpgt'cn'ngcugu+"qt "hqt"y j lej "ewt'gpv'y tgc'v"gz'ku'0" C'Rtkqtkv { "3'RGE"o c { "kpenmf g" c" eqo o wplv { "y kj "qeewtgpegu"qp"r tq'v'evgf "rcpf u'0"Eqo o wplv'gu"o c { "dg"kpenmf gf "kh'y g { "ctg" eqo r ctc'v'x'gn { "y gm'npqy p'htqo "qpg"qt "o qtg"m'ecr'k'kgu"dw'f q"pqv'o ggv'cf gs wce { "qh'u'w'xg { " tgs'v'k'go g'pw."cpf lqt"ctg"pqv'y gm'f ghkpgf ."cpf "cr r gct "v"dg"wpf gt "ko o gf kw'v'y tgc'v'htqo " npqy p'y tgc'v'pki "r tqegu'gu'cetqu'v'y gk'tcpi g0'

"

Hki wtg'6"kf gpv'k'gu'v'y g'm'ecv'k'qp"qh'y g'Uwf { "Ctgc"tgr'x'cpv"v"y g'o cr r gf "dqwpf ct { "qh'y g' FRcY /ercuukhgf "RGE" \*FRcY "4235d+0"Cu"uj qy p"qp"Hki wtg'6."y g'RGE"qeewtu"qp"dqv'y "y g' Uqwj gtp'Mqqn'cpqddkpi "Tcpi g"\*y j gtg'k'r ct'v'cm { "eqkpekf gu"y kj "y g'Uwf { "Ctgc+"cpf "y g' P qt'v'y gtp'Mqqn'cpqddkpi "Tcpi g0"V'y g'Mqqn'cpqddkpi "xgi gvcvqp"eqo r ngzgu'RGE"j cu'c"vqcn' o cr r gf "ctgc"qh'cr r tqz'ko cvgn { "4.722"j c="qh'y ku."cr r tqz'ko cvgn { "827"j c"\*46" +qeewtu"y kj kp" y g'Uwf { "Ctgc0"V'y g'dqwpf ct { "qh'y ku'RGE"i gpgtcm { "eqttgur qpf u'y kj "vqr qi ter j { ."pqv'y kj " y g'xgi gvcvqp'wplv'f ghkpgf "qp'y g'Uqwj gtp'Mqqn'cpqddkpi "Tcpi g0'

"



## 5. DISCUSSION

### 5.1 FLORA OF THE STUDY AREA

C"vqcn'qh'46: "f kuetgvg"xcuewrt" hqt c"vczc."3"npqy p"j { dtkf "cpf "3" r wcvkxg"j { dtkf "y gtg" tgeqtf gf "y kj kp"vj g"Uwf {"Ctgc0"Vj ku"vqcn'ku"eqpukf gtgf "vq"dg"tgrvkg"j ki j "i kxgp"vj g" tgrvkg"uo cniuk'g'cpf "o qf gtcvg'f kxgtuk'{"qh'j cdkcv'kp"vj g"Uwf {"Ctgc0"

F gur kg"dgny /cxgtci g"tclphcm'gZR gtlkpegf "kp"vj g"5"o qpvj u"r tgegf kpi "hgrf" uwtxg{"k'ku" eqpukf gtgf "vj cv'vj ku"uwtxg{"qh'vj g"Uwf {"Ctgc"ecr wtgf "c"j ki j "pwo dgt"qh'gr j go gtcn'vczc" r tguvp'kp"vj g"Uwf {"Ctgc0"tclphcm'gZR gtlkpegf "cv'Mqqr'cpqddkpi "Vqy pukvg'qxtg"vj g'o qpvj u" O c {"vq'Uw' "y cu'cr r tqzko cvgn'62" "dgny "vj g"mipi /vgo "cxgtci g"\*680"o o "eqo r ctgf "vq'cp" cppv'cxgtci g'qh'980"o o +0""Eqpxgtugn'."tclphcm'f wtkpi "vj g"gtcrtg'r ctv'qh'vj g'g'get."Lcpwct {"vq'O ctej ."y cu'cdqvg'cxgtci g0"Y j kg"vj g"dgny /cxgtci g"tclphcm'tgeqtf gf "kp"vj g'o qpvj u'r tkqt" vq'vj g'hgrf"uwtxg {"ku'rkngn'vq"j cxg'chgevgf "vj g"cdwfp cpeg'qh'kp'kxk'wcu'qh'gr j go gtcn'vczc." vczq'lej pguu'y cu'eqpukf gtgf "vq"dg"tgrvkg"j ki j =vj ku'ku"o quv'r tqpqwpegf "kp"vj g'pwo dgt"qh' Cuvgcegc'vczc'tgeqtf gf \*45"vczc+0"

Qpg'Tctg'Hqt c"vczq'p'kugf "wfp gt"vj g"Y kf rkg'Eqpugt xc'kqp "Cev'3; 72"Y C+cpf "p'kg'F RcY /ercuuk'kgf "Rtkqtk' {"Hqt c"vczc"j cxg"dgpp" tgeqtf gf "htqo "y kj kp"vj g"Uwf {"Ctgc0"Vj tgg" r qv'p'kcm' "wfp guetkdgf "hqt c"vczc"j cxg"cnq"tgeqtf gf "y kj kp"vj g"Uwf {"Ctgc."y kj "hwtvj gt" kpxguki cvkqp'd {"vj g'tgrxcpv'gZR gtu'dgkpi "wfp gtcvngp"vq'tguqk'vj gk'vczq'p'qo le'ucv'wu0"

F gwckgf "ugctej kpi "j cu"dgpp"wpf gtcvngp"htq"vj g"eqpugt xc'kqp"uki p'k'ecpv'hqt c"vczc"Vgvt cvj gec" gt wdguegpu" \*T+." Dg'f gtc "tquvngw" \*R3+." Ceceke "f kuqpc" xct0' kpf qrtk " \*R5+." J kddgt vk " ngr'kf qecr'z" uwdur 0' wdgtevw " \*R5+." Ngr'kf qur gt o c " hgttkeqr " \*R5+." Ur ct vqj co pgm " ur 0' J grgc" ( " Cwtqtc" Tcpi g" \*R1 0' Cto utqpi " 377/32; + " \*R5+." Uxgpcvj go wo " pgy dg'k' \*R5+." Uf r j grk "ur 0'Dwnt'kpej " \*O 0'J kur " 5796+ \*R5+." Dcpmk "ct dqt gc " \*R6+." Ceceke "ch0'cewtk " \*r qv'p'kcm' "wfp guetkdgf +." Ceceke "ch0'k'p'k'ecw " \*r qv'p'kcm' "wfp guetkdgf + "cpf "Ngr'kf qur gt o c " ch0'gtt'kewo gp " \*r qv'p'kcm' "wfp guetkdgf + "kp"vj ku'ewtgpv'uwtxg {"qh'vj g"Uwf {"Ctgc"cpf "f wtkpi " r t'g'k'q'wu"uwtxg {"u'kp"vj g"Uwf {"Ctgc" \*Y guvtp "Dq'v'p'ecn'422; =O c k "4235+0" K'ku"eqpukf gtgf " vj cv'vj g"tgeqtf u'r t'g'ug'p'v'f "kp"vj ku'tgr qt'v'htq"vj g'g'eqpugt xc'kqp"uki p'k'ecpv'hqt c"vczc"tgr t'g'ug'p' c"tgrvkg"eqo r ngv'egpuu'kp"vj g"Uwf {"Ctgc0"Y j ku'v'htvj gt"uwtxg {"kp"cr r tqr tkvg"j cdkcv' eqwf "h'p'f "cf f k'k'q'pcn'kp'kxk'wcu'qh'vj g'g'eqpugt xc'kqp"uki p'k'ecpv'hqt c"vczc."hwtvj gt" h'p'f u" y qwf "pqv'dg"zr gev'f "vq'i tgcw' "k'p'etgcug"vj g'pwo dgt"qh'npqy p'mec'k'q'pu'cpf "kp'kxk'wcu'0"

C"htvj gt" F RcY /ercuuk'kgf "Rtkqtk' {"Hqt c"vczq'p."I t'g'k'ngc"gt gev'kqdc" \*R6+."j cf "dgpp"tgeqtf gf " htqo "r t'g'k'q'wu"uwtxg {"u'kp"vj g"Uwf {"Ctgc."dw'y cu'pqv'tgeqtf gf "kp"vj ku"uwtxg {"qh'vj g"Uwf {" Ctgc0"K'ku"eqpukf gtgf "wpr'kngn' "vj cv'vj ku'ur gekgu"qee'w'u'kp"vj g"Uwf {"Ctgc="k'ku'rkngn' "vq"j cxg" dgpp"gtt'q'p'g'wun' "k'g'p'k'kgf "f wtkpi "r t'g'k'q'wu"uwtxg {"u0"

Vj g" F RcY /ercuuk'kgf " Rtkqtk' {"Hqt c"vczq'p" Ngr'kf kwo "i g'p'k'ng'f gu" \*R5+."y cu" tgeqtf gf "lwu' q'w'k'f g"vj g"Uwf {"Ctgc"d {"vj ku"uwtxg {"0"Vj ku"ur gekgu"y cu"pqv'tgeqtf gf "kp"vj g"Uwf {"Ctgc." f gur kg' "uwtxg {"kp'uko k'rt"j cdkcv."cpf "j cu'pqv'dgpp"tgeqtf gf "f wtkpi "q'v'gt"uwtxg {"u'kp"vj g"Uwf {" Ctgc0"K'ku"vj g'ghqtg'eqpukf gtgf "vj cv'vj ku'ur gekgu'ku'wpr'kngn' "vq'q'ee'w' "kp"vj g"Uwf {"Ctgc0"

Cwnt'q'w'k'c "drc'enk' \*R5+."j cu'pqv'dgpp"ur gek'k'ecm' {"ugctej gf "htq"kp"vj g"Uwf {"Ctgc."cu"ku'y cu" qpn' "k'g'p'k'kgf "f wtkpi "j gtdctkwo "k'g'p'k'ec'k'q'pu'0"Cu"uwej ."vj g'f k'ut'k'w'k'p'cpf "cdwfp cpeg'qh' vj ku'vczq'p"y kj kp"vj g"Uwf {"Ctgc"j cu'pqv'dgpp"s wcp'k'kgf 0"P qy kj ucp'f kpi "vj ku."k'ku'c"et {r v'k' ur gekgu"vj cv'ku'f k'k'ew'vq' "k'g'p'k'kgf "wpr'guu'uw'k'cdng"htqy g'k'pi "o cvgt'k'cn'ku'r t'g'ug'p'v."cpf "vj g'ghqtg"



ur gekhe'ugctej kpi "hqt"vj ku'vzqp"ku"eqpukf gtgf "r tqdngo cvk0"Vj ku'vzqp"ku"rkngn' "vq"dg"o qtg"  
cdwpf cpv'crppi "vj g"Uqwj gtp'Mqqn'cpqddkpi "Tcpi g."dqj "kp"vj g"Uwf {"Ctgc"cpf "qwuuf g"vj g"  
Uwf {"Ctgc."vj cp'vj g'ewtgpw' "tgeqtf gf "mcevkvpu'kpf kecvg0""

Vy grkg'kptqf wegf "hqt"vzc'y gtg'tgeqtf gf "kp"vj g'uwtxg {"qh'vj g'Uwf {"Ctgc0"tgeqtf u'qh'uwej "  
vzc'y gtg'qhngp"cuuqekcvf "y kj "j kuqtkecn'o klpki /tgrcvf "f kuwtdcpeg=j qy gxgt" c"pwo dgt"qh"  
vzc'y gtg'cuq'tgeqtf gf "kp"tgo pcpv'xgi gvcvkp0"Cm'vzc'y gtg'i gpgtcm' "r t gupv'cv'my "rgxgn0"  
Vy grkg'cf f kqpcn'kptqf wegf "vzc'y gtg'cuq'tgeqtf gf "kp"vj g'xlekp' {"qh'vj g'Uwf {"Ctgc0"P qpg"  
qh' "vj g" kptqf wegf "hqt" vzc" hwpf " y kj kp "vj g" Uwf {" " Ctgc" ctg" F gerctgf " Rguu" wpf gt" yj g"  
Dkugewt k' " cpf " Ci tlewnwt g" O cpci go gpv' Cev' 4229" \*DCO " Cev" \*Y C+ " \*F gr ctvo gpv' qh'  
Ci tlewnwt g"cpf "Hqqf "4235+"qt"rkuvgf "cu"Y ggf u'qh'P cvkpcn'Uki p'k'kecpeg"\*Cwutcrkcp"Y ggf u'  
Eqo o kvwg'4234+0"Vj g'kptqf wegf "vzqp"l crkw "crctkpg."tgeqtf gf "qwuuf g"vj g'Uwf {"Ctgc."ku"  
c" F gerctgf "Rguu'hqt"vj g'gpvtg"qh"Y guvtp"Cwutcrk" \*F gr ctvo gpv'qh" Ci tlewnwt g"cpf "Hqqf "  
4235+0""

Vj g'kptqf wevkp"cpf "ur tgcf "qh"kptqf wegf "hqt"vzc"ecp"dg"o cpci gf "kp"ceeqtf cpeg"y kj "  
ucpf ctf "j {i kpgg'r tcevegu."uwej "cu'kpur gevkv"cpf "erpcpki "qh'o cej kpgt {"cpf "xgj kengu'r tkqt"vq"  
gpvtkpi "qt"rxcxkpi "ctgcu"mpqy p"qt"uwur gevvgf "vq"j cxg"kp'gucvkpu"qh"kptqf wegf "hqt."cpf "  
y ggf "eqpvtq'vj tqwi j "vcti gvvgf "ur tc {kpi 0'

5.2 VEGETATION OF THE STUDY AREA

C"vcrn'qh'38"xgi gvcvkp"wpku"y gtg'o cr r gf "y kj kp"vj g'Uwf {"Ctgc"cpf "vj g'cf lcegpv'o cr r gf "  
ctgc0"Vj g'f kxgtuk' {"qh'xgi gvcvkp"wpku'kp"vj g'Uwf {"Ctgc'ku'c'tghgevkp'qh'vj g'tgrv'xgn' "j ki j "  
xctkgv' {"qh'j cdkcv'v' r gu'qy kpi "vq"vj g'xctkgf "i gqmi {"kp"vj g'Uwf {"Ctgc0"Vj ku'ku'f gur kg"vj g"  
Uwf {"Ctgc'dgkpi "tgrv'xgn' "uo cm0""

Vj g'38"xgi gvcvkp"wpku"tgeqtf gf "d {"vj ku'uwtxg {"y cu"my gt"vj cp"vj g'57"xgi gvcvkp"wpku"  
tgeqtf gf "d {"cv'vj g'Uqwj gtp'Mqqn'cpqddkpi "Tcpi g"d {"Y guvtp"Dqvcplecn"\*422; +0"J qy gxgt."  
vj g'tguwnu"qh'vj gug'uwtxg {"u"ecppqv'dg'f k'gevn' "eqo r ctgf ."cu'f k'htkpi "o gy qf u'qh'xgi gvcvkp"  
wpk'f gvto k'cvk'p'y gtg'w'k'ugf 0"Vj g'i tgcvt'pwo dgt'qh'xgi gvcvkp"wpku'tgeqtf gf "d {"Y guvtp"  
Dqvcplecn' \*422; + "ku' rkngn' "d'gecvug"xgi gvcvkp"wpk'f gvto k'cvk'p"y cu'r tko ctkn' "f t'xgp"d {"  
xgi gvcvkp'utwewt g."tcvj gt"vj cp"j q'k'v' "hqt'k'v' "eqo r qukvk'p' "k'pen' kpi "ucv'k'kecn'cpcn' {"uku"cu"  
wugf "kp"vj ku'uwtxg {"cpf "qj gt'uwtxg {"u'kp"vj g'tgi kq' "g'f 00 gkuupgt'g'v'cr'422; +0'

Qh'vj g'xgi gvcvkp"wpku"o cr r gf ."xgi gvcvkp"wpku"6.": .; .32."33."34."35."cpf "38"qeewt"qp"vj g"  
Uqwj gtp'Mqqn'cpqddkpi "Tcpi g."c"dcpf gf "k'qpuvpg"t'cpi g"vj cv'ku'tgrv'xgn' "ku'rcv'g' ."dgkpi "  
uwttqwpf gf "d {"ctgcu'qh'f k'htkpi "i gqmi {"cpf "vqr qi tcr j {"0"Y j k'g'ugxgtcn'qh'vj gug'xgi gvcvkp"  
wpku'ctg'tgrv'xgn' {"eqo o qp"cpf "y k' gur tgc'f ."k'ku'pqv'r qukv'g'v' "k'p'ht' "vj g'k' "f k'ut'k'v'k'p'u'cv'c"  
tgi k'pcn' uecrg'0" Vq" f gvto k'pg"vj g'tgi k'pcn' f k'ut'k'v'k'p"qh' xgi gvcvkp"wpku"y qwf "tgs v'k'g"  
eqo r ct'ku'p'ci k'pu'v'qj gt'pgctd {"dcpf gf "k'qpuvpg"t'cpi gu0'

Vj g' F RcY /ercu'k'g' " RGE" -Mqqn'cpqddkpi " xgi gvcvkp" eqo r r'gzgu' \*dcpf gf " k'qpuvpg"  
h'qto cvk'p' " \*R'k'k'k' {" "3+"ku"tgeqtf gf "d {"F RcY "cu"eq'k'p'k' kpi "y kj "vj g'Uwf {"Ctgc0" Vj g"  
dqwpf ct {"qh'vj ku'RGE"i gpgtcm' {"eqttgur qpf u'y kj "vj g'vqr qi tcr j {" .tcvj gt"vj cp"vj g'xgi gvcvkp"  
wpku" f g'k'p'g' " qp" vj g' Uqwj gtp' Mqqn'cpqddkpi " Tcpi g0 " Vj g' Uwf {" Ctgc" eq'k'p'k' gu" y kj "  
cr r tqzko cvgn' "46" "qh'vj g'RGE."y kj "vj g'tgo c'k'p'kpi "ctgc"qh'vj g'RGE"dgkpi "qwuuf g'vj g'Uwf {"  
Ctgc." k'pen' kpi " c" uki p'k'kec'p'v' r tqr qt'v'k'p" qh' "vj g' RGE" vj cv' eq'k'p'k' gu" y kj " vj g' P qt'vj gtp"  
Mqqn'cpqddkpi "Tcpi g."m'cev'g' "vq"vj g'p'qt'vj /y guv'qh'vj g'Uwf {"Ctgc" \*H'k' wt'g'6+0""



Vj g"eqpf kkp"qh'cm quv'cm'qh'vj g"xgi gcvkqp"lp"vj g"Uwf {"Ctgc"y cu"tcpngf "cu"-Gzegmpw"  
kpf kcvkpi "c"r tkvpg"eqpf kkp"qxgt"vj g"xcuvo clqtkv{"qh'vj g"Uwf {"Ctgc0"Ugxgten'uo cm'ctgcu"  
y gtg"tcpngf "cu"-Xgt {"I qqf ø"-Rqqtø'qt"-Engctgf "ncpf ø"cpf "j cxg"dgpp"chgewf "d{"o kkp /  
tgrvzf "cevkxkku"J qy gxgt."k'ku"eqpukf gtgf "vj cv'o kkp /tgrvzf "cevkxkku"j cxg"pqv'j cf "c"  
uki pkkcpv'ko r cev'qp'vj g"xgi gcvkqp"lp"vj g"Uwf {"Ctgc"cu'c'y j qng0'  
"  
"



## 6. REFERENCES

Cwutcrkcp' Y ggf u' Eqo o kwgg' \*4234+ "

Y ggf u' qh' Pcvkpcn' Uki phkecpeg0' " Cxckrdrg- j wr <ly y y 0y ggf u' qti Qwly qP UI0'  
Ceeguugf "4; 1842340

Dcttgw' Twuugn' \*4236+ "

Tgugctej " Uelgp' kuv' \*Rrcpv' Vczqpqo {+." Mlpi u' Rctni' cpf " Dqvcple" I ctf gp0' " Rgtuqpcn'  
eqo o wplecvkq' vq' Y qqf o cp' Gpxktqpo gpvcn' 4: " Lcpwct { "42360

Dgctf. 'IU0\*3; 94+ "

Vj g' Xgi gvc' kq' qh' vj g' Lcemuq' Ct gc. " Y gwgt p' Cwut crk <' O cr " cpf " Gzrrpcvqt { "  
O go qk. '3 472' 222' Ugt kgu0' Xgi o cr 'Rwdrkecvkqpu. U{ f pg { . 'P UY 0

Dgctf. 'IU0\*3; ; 2+ "

Rrcpv' Nkg' qh' Y gwgt p' Cwut crk. 'Mcp' ctqq' Rt gu' Rv' 'Nf. 'Mgpj' wtuv. 'P UY "

Dgrdkp0N0\*3; ; ; + "

RCVP 'Vgej pkecn' T glgt gpeg0' EUKQ 'F kxlukq' qh' Y krf rkg' cpf " Geqmi { . " RQO' Dqz " : 6. "  
N{ pgj co . 'CEV. '48240

Dwtgcw' qh' O gwgt qmi { \*4235c+ "

Erko cvg' F cv' Qprkpg- Mqqr' cpqddkpi 0' " Cxckrdrg-  
j wr <ly y y Qlqo 0 qx0wlerko cvglf cv0' Ceeguugf "4; 134235 "

Dwtgcw' qh' O gwgt qmi { \*4235d+ "

Erko cvg' F cv' Qprkpg- Uqwj gtp' Etqu' Ck' hkgf 0' " Cxckrdrg-  
j wr <ly y y Qlqo 0 qx0wlerko cvglf cv0' Ceeguugf "4; 134235 "

Ej cq. 'C0\*3; : 9+ "

Guko cvkpi " vj g' r qr wr cvkq' uk' g' hqt' ecr wtg/ tgecr wtg' f cv' y kj " wpgs wcn' ecvej cdkrv { 0'  
Dkqo gv' keu' 65-9: 5/9; 30

Eqo o qpy genj " qh' Cwutcrk' \*4234+ "

Kpvt ko 'Dkqi gqi tcrj ke' Tgi kqpcrkucv' kq' hqt' Cwut crk. 'Xgt ukq' 90' F gr ctvo gpv' qh'  
Uwuc' kpcdkrv { . 'Gpxktqpo gpv. 'Y cvgt. 'Rqr wr cvkq' cpf " Eqo o wplkku' \*F UGY Rce+0"  
Cxckrdrg- j wr <ly y y Qpxktqpo gpv' 0 qx0wlr ctmutuluekpeg' ldkqt gi kq/  
htco gy qtmldtc lpf gz0 vo r' ddc "

Eqwpeki' qh' J gcf u' qh' Cwutcrk' J gtdctk' \*4235+ "

Cwut crk' ai' Xk' wcn' J gtdctkwo 0' " Cxckrdrg- j wr <lcxj 0ej cj qti Qw0' " Ceeguugf "  
4913442350

Eqy cp. 'O 0' I tej co . 'I 0( 'O eMgp' kg. 'P 0' \*4223+ "

Eqqi ctf kg' 4' \*EQQ4' o' Uqwj gtp' Etqu' uwdt gi kq' +0' Kp- C' Dkaf kxgt ukv' 'Cwf kv' qh' Y gwgt p'  
Cwut crk' ai' 75' Dkqi gqi tcrj kecn' Uwdt gi kqpu' k' 42240' F gr ctvo gpv' qh' Eqpugt' cvkq' cpf "  
Ncpf 'O cpci go gpv. 'I qxgtpo gpv' qh' Y gwgt p' Cwutcrk0'



F gr ctvo gpv'qh'Ci tlewwtg'cpf "Hqqf "\*4235+"  
F gerctgf "Qti cpluo "Ugctej 0"Cxckrdrg<j wr <ly y y Qlkugewtk{ 0y cŃ qxŃwłqti cpluo u0"  
Ceeguuf "48 128 142350"

F gr ctvo gpv'qh'Eqpugtxcvqp"cpf "Ncpf "O cpci go gpv"\*3; ; ; +"  
Gpxk qpo gpxcn'Y ggf "Ut cvgi { 'hqt 'Y gwgtp' Cwnt crk 0" F gr ctvo gpv'qh'Eqpugtxcvqp"cpf "  
Ncpf "O cpci go gpv."Rgtvj 0"

F gr ctvo gpv'Rctm'cpf "Y kf rkhg"\*cu" F gr ctvo gpv'qh'Gpxkqpo gpv'cpf "Eqpugtxcvqp+\*"4232+"  
F ghpkskqpu. 'Ecvgi qtkgu'cpf 'Et kxt kc 'hqt 'Vj t gcvpggf 'cpf 'Rt kqt kv' 'Geqmi kecn'  
Eqo o wplkgu" F gego dgt "42320" Cxckrdrg<'  
j wr <ly y y Ń r cy 0y cŃ qxŃwłko ci gulf qewo gpwlr rcpw/cplo cnulj tgcvgpgf /  
ur gekgulgeulge/f ghpkskqpu/f ge42320 f h"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235c+"  
Kvgttqi cvkqp" qh' vj g" F gr ctvo gpv' qh' Rctm" cpf " Y kf rkhg" Vj t gcvpggf " Geqmi kecn'  
Eqo o wplkgu"cpf "Rtkqt kv' "Geqmi kecn'Eqo o wplkgu" f cvdcug. "r gthqto gf "3: 125 142350"  
F RCY "T gh"42/2535GE0"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235d+"  
Dqwpf ct { " qh' Mqqr' cpqddkpi " xgi gvcvqp" eqo r ngz gu" \*dcpf gf " kqpuvpgg" hqto cvkqp+."  
48 133 142350"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235e+"  
Kvgttqi cvkqp" qh' vj g" F gr ctvo gpv' qh' Rctm" cpf " Y kf rkhg" Y gwgtp" Cwnt crkcp"  
J gtdctkwo "ur geko gp" f cvdcug. "Vj t gcvpggf "cpf "Rtkqt kv' "Hqt c" f cvdcug"cpf "Vj t gcvpggf "  
cpf "Rtkqt kv' "Hqt c" Nku. "r gthqto gf "43 125 142350" F RcY "T gh"42/2535HN0"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235f +"  
Vj t gcvpggf " Hqt c" Tcplkpi u0 " Ewttgpv' 39 12; 142350 " Cxckrdrg<'  
j wr <ly y y Ń r cy 0y cŃ qxŃwłko ci gulf qewo gpwlr rcpw/cplo cnulj tgcvgpgf /  
ur gekgulNku'pi ulVj t gcvpggf aHqtca Tcplkpi ua/a39a Ugr vgo dgta42350 f h"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235g+"  
Eqpugtxcvqp"Eqf gu'hqt "Y gwgtp" Cwnt crkcp "Hqt c" c' pf "Hcwp c0" Ewttgpv'3: 12; 142350"  
Cxckrdrg<j wr <ly y y Ń r cy 0y cŃ qxŃwłko ci gulf qewo gpwlr rcpw"  
/cplo cnulj tgcvgpgf /ur gekgulNku'pi uEqpugtxcvqpaeqf gaf ghpkskqpu a3: 2; 423"  
50 f h"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4235h+"  
Nku' qh' Vj t gcvpggf " Geqmi kecn' Eqo o wplkgu" gpf qtugf " d{ " vj g" Y gwgtp" Cwnt crkcp"  
O kplvgt "hqt "vj g" Gpxk qpo gpw0" Ur geku" ( "Eqo o wplkgu" Dtcpej. "F gr ctvo gpv'qh'Rctm"  
cpf " Y kf rkhg" \*Eqttgev" vq" O c{ " 4235+0" " Cxckrdrg< ko ci gulf qewo gpwlr rcpw/  
cplo cnulj tgcvgpgf /ur gekgulNku'pi ulj tgcvgpgf /geqmi kecn'eqo o wplkgu/ gpf qtugf /d{ /  
vj g/o kplvgt/hqt/vj g/gpxkqpo gpv'o c{/42350 f h"

F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4236c+"  
Pcwt gOcr" \*kpvgtcevxg" qprkpg" f cvdcug" ugctej " hckrk{ +0" " Cxckrdrg<'  
j wr <lpewtgo cr Ń ge0y cŃ qxŃwł0" Ceeguuf "42 13 142360"



F gr ctvo gpv'qh'Rctm'cpf "Y kf rkhg"\*4236d+"  
Hrqt cdcug"\*qprkpg'f cvdcug'ugctej 'hcekrk\+0"Cxckrdrg<"  
j wr <lhqtcdugf r cy 0y cfi qx0w0"Ceeguugf "42B 42360"

F gr ctvo gpv'qh'yj g'Gpxktqpo gpv"\*4235+"  
Rtqvgevgf " Ocwtgu" Ugctej " Vqqn" s wgtkgf " 481284235." tgr qt v' tghgt gpeg" MCJ NY 50"  
Cxckrdrg<" j wr <ly y y Gpxktqpo gpvfi qx0w0wqr keukcdqw/wulrgi kurvkqp lgpktqpo gpv  
r tqvevkp/cpf/dkqf kxgtuk\ /eqpugtxcvkp/cev3; ; ; lr tqvevgf "

F wlt gpg.'O 0( 'Ngi gpf tg.'R0\*3; ; 9+"  
Ur gekgu'Cuugo drci gu'cpf " kpf kecvt" Ur gekgu<" Vj g" pggf " hqt " c" hgzkdrg" cu{o o gvkecn'  
crr tqcej 0" kpf <Geqrqi kecn'O qpqi t crj u'67<567/5880"

Gpxktqpo gpvci'Rtqvgevkp'Cwj qtkv\ "\*4224+"  
Vgt t gum kn' Dkqrqi kecn' Umt xgl u' cu' cp " Grgo gpv' qh' Dkqf kxgt ukv\ " Rtqvgevkp " o " Rquktqp "  
Uc vgo gpv' P q0' 50' " Wpr wdrukj gf " tgr qt v' r tqf weg f " d { " yj g " Gpxktqpo gpvci' Rtqvgevkp "  
Cwj qtkv\ . " Y guvgtp " Cwutcrk . " O ctej " 42240 "

Gpxktqpo gpvci'Rtqvgevkp'Cwj qtkv\ "\*4226+"  
I wlf cpeg" hqt " yj g " Cuiguuo gpv' qh' Gpxkt qpo gpvci' Hcevqt u' o " Vgt t gum kn' Hrqt c " cpf "  
Xgi gvcvkp " umt xgl u' hqt " Gpxkt qpo gpvci' K r cev' Cuiguuo gpv' kp " Y guvgtp " Cwut crk . " P q0'  
730" Wpr wdrukj gf " tgr qt v' r tqf weg f " d { " yj g " Gpxktqpo gpvci' Rtqvgevkp " Cwj qtkv\ . " Y guvgtp "  
Cwutcrk . " Lxp g " 42260 "

Gzgewkxg'Uvggtkpi 'Eqo o kwgg'hqt 'Cwutcrkcp'Xgi gvcvkp'kphqto cvkq"\*GUECXK"\*4225+"  
Cwut crkcp " Xgi gvcvkp " Cwkdwng " O cpwcn < " P cvkpcn' Xgi gvcvkp " kphqto cvkq " Uf wngo . "  
Xgt ukap " 800' F gr ctvo gpv'qh'yj g'Gpxktqpo gpv'cpf " J gtkci g. " Ecpdgttc0'

I qxgtpo gpv'qh'Y guvgtp 'Cwutcrk "\*4235c+"  
4234'Uc vgy kf g'Xgi gvcvkp'Uc vkanku'kpeqtrqt cvkpi 'yj g'ECT'T gugt xg'Cpcn' uku' " Hwni'  
Tgr qt v'0'Ewtt gpv'cu'qh'Qevdgt "42340" Y C'F gr ctvo gpv'qh'Gpxktqpo gpv'cpf "  
Eqpugtxcvkp. " Rgt yj 0 " Cxckrdrg<"  
j wr u<ly y y 40cpf i cvg0y cfi qx0w0y gd li wguvf qy pttcf gt "

I qxgtpo gpv'qh'Y guvgtp 'Cwutcrk "\*4235d+"  
Dkugewt kv\ " cpf " Ci tkewmt g' O cpci go gpv' Tgi wr vkp u' 42350 ""

J wuug{ . " D00 L' Mgi j gt { . " I 00' Eqwugpu. " T0F 0' F qf f . " L0( " Ntq { f . " UI 0 " 4229+"  
Y guvgtp " Y ggf u' o " C " I wlf g " vq " yj g " Y ggf u' qh' Y guvgtp " Cwut crk " \*Ugeqpf " Gf kvkp -0 " Vj g "  
Rrnpv' Rtqvgevkp " Uqelgv\ " qh' Y guvgtp " Cwutcrk " \*kpe0: " Xkvqt k' Rctm " Y guvgtp " Cwutcrk "

Mgi j gt { . " D00 \*3; ; 6+"  
Dwij rcpf " Rrnpv' Umt xgl < " c " I wlf g " vq " Rrnpv' Eqo o wpkv\ " Umt xgl " hqt " yj g " Eqo o wpkv\ 0'  
Y kf hqy gt " Uqelgv\ " qh' Y C " \*kpe0: " P gf rcpf u. " Y guvgtp " Cwutcrk 0'

O clk'Gpxktqpo gpvci'Eqpuwncpe { "\*4235+"  
Uqwj gtp " Mqqr' cpqddkpi " Tcpi g " Vgvtcj gec " gtwdguegpu " Egpumi0 " Wpr wdrukj gf " tgr qt v'  
r tgr ctgf " hqt " Erkhu' Cuk' Rcekhe' Kqp' Qtg' Rv' Nf . " Cwi wuv' 42350 "



O ctng{.'C0U0( 'F kmqp.'U0L0\*422: +"  
Hqt c' c' pf "Xgi gvc' kqp" qh' vj g" Dcpf gf "Kqpu' xppg" Hqto c' kqp" qh' vj g" [ ki ctp "Etc' vqp < "Vj g"  
Egp' tcn' Vcmgt' kpi "Ncpf " U{ u' ngo 0' " Kp < "Eqpu' g' xc' v' kqp" Uek' p' eg" Y 0' Cw' u' 0' (1) < 343636; "  
\*422: +0'

O curk'p.'Dt' weg" \*4236+ "  
Ugpk' qt" T' g' u' g' t' e' j " Uek' p' v' k' u' v." F' g' r' c' t' v' o' g' p' v' qh' R' c' t' m' i" c' p' f " Y' k' f' r' k' h' g' 0' " R' g' t' u' q' p' c' n' i'  
e' q' o' w' p' l' e' c' v' k' q' p' " v' q' F' c' x' k' f' " E' q' w' u' c' u' " \*Y' q' q' f' o' c' p' " G' p' x' k' t' q' p' o' g' p' v' c' n' i' " 36' j' " L' e' p' w' e' t' { " 42360'

O eEwpg.'D0( 'O g' h' q' t' f. 'O L' \*3; ; ; + "  
R' E' / Q' t' f' 0' " O' w' u' k' x' c' t' k' c' v' g' " C' p' c' r' i' u' k' u' " q' h' " G' e' q' r' q' i' k' e' c' n' i' F' c' w. " X' g' t' u' k' q' p' " 60010 " U' q' h' y' c' t' g' F' g' u' k' i' p. "  
I' r' g' p' f' g' p' " D' g' c' e' j . ' Q' t' g' i' q' p' " W' U' C' 0'

O eMgp| kg.'P' N0' x' c' p' N' g' g' w' y' g' p. " U0( 'R' k' p' f' g' t. 'C00' 0\*422; + "  
K' p' t' q' f' w' e' v' k' q' p' " v' q' " v' j' g' " R' k' n' d' e' t' c' " D' k' q' f' k' x' g' t' u' k' v' { " U' w' t' x' g' { . " 4224/42290' " T' g' e' q' t' f' u' " q' h' ' v' j' g' " Y' g' u' w' g' t' p' "  
C' w' u' t' c' r' k' c' p' " O' u' g' w' o . " U' w' r' r' g' o' g' p' v' 9: < 5/ : ; ; 0'

O gku' p' g' t. 'T0' Q' y' g' p. 'I' 0( 'D' c' { r' k' u' . 'D0' \*422; + "  
H' q' t' c' " c' p' f' " x' g' i' g' v' c' k' q' p' " q' h' ' d' c' p' f' g' f' " k' t' q' p' " h' q' t' o' c' v' k' q' p' u' " q' h' ' v' j' g' " [ ki ctp "Etc' vqp " 6' " O' q' w' p' v' H' q' t' t' g' u' v' "  
6' " O' q' w' p' v' T' l' e' j' c' t' f' u' q' p' " T' c' p' i' g. " E' q' p' u' g' t' . x' c' v' k' q' p' " U' e' k' p' e' g' " Y' g' u' w' g' t' p' " C' w' u' t' c' r' k' c' " 9' " \*4+ < 599 " 6' " 5: ; ; "  
\*422; +0"

O w' g' m' g' t' / F' q' o' d' q' u' . 'F' 0' c' p' f' " G' m' g' p' d' g' t' i . 'J' 0\*3; 96+ "  
C' k' o' u' " c' p' f' " O' g' v' j' q' f' u' " q' h' " X' g' i' g' v' c' k' q' p' " G' e' q' r' q' i' { 0' Y' k' g' { " c' p' f' " U' q' p' u' . " E' c' p' c' f' c' 0'

U' j' g' r' j' g' t' f. 'F' 0' D' g' g' u' q' p. 'I' ( 'J' q' r' n' k' p' u. 'C0' \*4224+ "  
P' c' v' k' x' g' " X' g' i' g' v' c' k' q' p' " k' p' " Y' g' u' w' g' t' p' " C' w' u' t' c' r' k' c' < " G' z' v' g' p' v. " V' { r' g' " c' p' f' " U' c' w' u' 0' " " T' g' u' q' w' t' e' g' "  
O' c' p' c' i' g' o' g' p' v' V' g' e' j' p' l' e' c' n' i' T' g' r' q' t' v' 46; (F' g' r' c' t' v' o' g' p' v' q' h' " C' i' t' l' e' w' u' w' t' g. " U' q' w' j' " R' g' t' v' 0'

U' p' g' c' v' j . 'R0' 0C. ( " U' q' m' e' n' " T0' 0\*3; 95+ "  
P' w' o' g' t' k' e' c' n' i' " V' c' z' q' p' q' o' { < " V' j' g' " R' t' k' p' e' k' r' i' g' u' " c' p' f' " R' t' c' e' v' k' e' g' " q' h' i' " P' w' o' g' t' k' e' c' n' i' " E' r' c' u' u' k' k' e' c' v' k' q' p' 0' "  
R' w' d' r' k' u' j' g' f' " d' { " H' i' g' g' o' c' p' . " U' c' p' " H' i' c' p' e' k' u' e' q' 0'

Y' g' u' w' g' t' p' " D' q' v' c' p' l' e' c' n' i' \*4226+ "  
U' w' t' x' g' f' u' " l' q' t' " V' g' t' c' v' j' g' e' c' " g' t' w' d' g' u' e' g' p' v' k' " o' u' " \*L0' D' w' u' t' " M' q' q' r' ' c' p' q' d' d' k' p' i' " T' c' p' i' g' 0' " E' q' p' u' w' u' c' p' v' "  
t' g' r' q' t' v' " v' q' " R' q' t' w' o' c' p' " K' q' p' " Q' t' g' " N' f' 0' " Y' g' u' w' g' t' p' " D' q' v' c' p' l' e' c' n' i' t' g' h' g' t' g' p' e' g' " e' q' f' g' " Y' D' 455' t' g' x' 40'

Y' g' u' w' g' t' p' " D' q' v' c' p' l' e' c' n' i' \*422; + "  
H' q' t' c' " c' p' f' " X' g' i' g' v' c' k' q' p' " q' h' ' v' j' g' " r' t' q' r' q' u' g' f' " E' " R' k' v' " c' p' f' " D' I' E' " Q' x' g' t' d' w' t' f' g' p' " N' c' p' f' l' q' t' o' . "  
M' q' q' r' ' c' p' q' d' d' k' p' i' 0' " " E' q' p' u' w' u' c' p' v' t' g' r' q' t' v' " v' q' " E' r' k' h' u' " P' c' w' u' c' n' i' " T' g' u' q' w' t' e' g' u' " R' v' { " N' f' 0' " Y' g' u' w' g' t' p' "  
D' q' v' c' p' l' e' c' n' i' t' g' h' g' t' g' p' e' g' " e' q' f' g' " Y' D' 755' t' g' x' 40'



---

**Appendix A: Results of Search of the Department of the Environment (DoE) Database with Regard to Environmental Matters of National Significance**





# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 26/06/13 08:55:58

## [Summary](#)

## [Details](#)

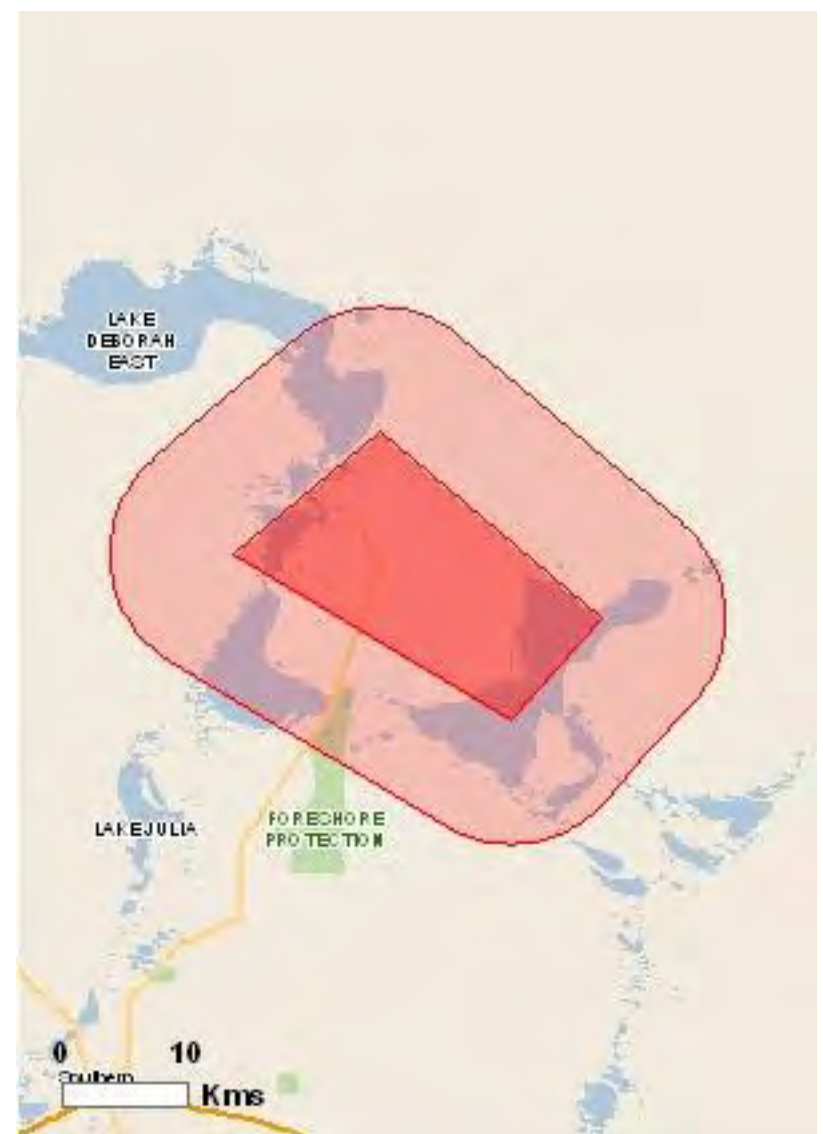
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

## [Caveat](#)

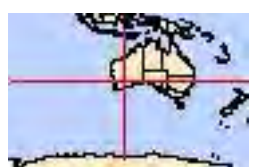
## [Acknowledgements](#)



This map may contain data which are  
©Commonwealth of Australia  
(Geoscience Australia), ©PSMA 2010

[Coordinates](#)

[Buffer: 10.0Km](#)





# Summary

## Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Areas:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	8
<a href="#">Listed Migratory Species:</a>	5

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As [heritage values](#) of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Land:</a>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	4
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves:</a>	None



## Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

<a href="#">Place on the RNE:</a>	None
<a href="#">State and Territory Reserves:</a>	1
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	11
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	None

## Details

### Matters of National Environmental Significance

Listed Threatened Species		<a href="#">[ Resource Information ]</a>
Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Acanthiza iredalei iredalei</a> Slender-billed Thornbill (western) [25967]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<b>Plants</b>		
<a href="#">Acacia lobulata</a> Chiddarcooping Wattle [55567]	Endangered	Species or species habitat may occur within area
<a href="#">Eremophila virens</a> Campion Eremophila, Green-flowered Emu bush [21433]	Endangered	Species or species habitat may occur within area
<a href="#">Eremophila viscida</a> Varnish Bush [2394]	Endangered	Species or species habitat may occur within area
<a href="#">Ricinocarpos brevis</a> [82879]	Endangered	Species or species habitat known to occur within area
<a href="#">Roycea pycnophylloides</a> Saltmat [21161]	Endangered	Species or species habitat may occur within area
<a href="#">Tetratheca paynterae</a> Paynter's Tetratheca [66451]	Endangered	Species or species habitat may occur within area

Listed Migratory Species		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence



Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area

## Other Matters Protected by the EPBC Act

### Commonwealth Land [\[ Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land -

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area



## Extra Information

### State and Territory Reserves [\[ Resource Information \]](#)

Name	State
Unnamed WA36918	WA

### Invasive Species [\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
------	--------	------------------

#### Birds

<a href="#">Columba livia</a> Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
--	--	--

<a href="#">Streptopelia senegalensis</a> Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
--	--	--

#### Mammals

<a href="#">Canis lupus familiaris</a> Domestic Dog [82654]		Species or species habitat likely to occur within area
--	--	--

<a href="#">Capra hircus</a> Goat [2]		Species or species habitat likely to occur within area
--	--	--

<a href="#">Equus asinus</a> Donkey, Ass [4]		Species or species habitat likely to occur within area
---	--	--

<a href="#">Equus caballus</a> Horse [5]		Species or species habitat likely to occur within area
---	--	--

<a href="#">Felis catus</a> Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
--	--	--

<a href="#">Mus musculus</a> House Mouse [120]		Species or species habitat likely to occur within area
---	--	--

<a href="#">Oryctolagus cuniculus</a> Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
--	--	--

<a href="#">Vulpes vulpes</a> Red Fox, Fox [18]		Species or species habitat likely to occur within area
--	--	--

#### Plants

<a href="#">Carrichtera annua</a> Ward's Weed [9511]		Species or species habitat likely to occur within area
---	--	--



# Coordinates

-30.838384 119.424774,-30.749749 119.530065,-30.885378 119.690679,-30.957952  
119.625244,-30.957952 119.625244,-30.838384 119.424774

## Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.



# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Department of Environment, Climate Change and Water, New South Wales](#)
- [-Department of Sustainability and Environment, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment and Natural Resources, South Australia](#)
- [-Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts](#)
- [-Environmental and Resource Management, Queensland](#)
- [-Department of Environment and Conservation, Western Australia](#)
- [-Department of the Environment, Climate Change, Energy and Water](#)
- [-Birds Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-SA Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [-State Forests of NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

© Commonwealth of Australia

Department of Sustainability, Environment, Water, Population and Communities

GPO Box 787

Canberra ACT 2601 Australia

+61 2 6274 1111



## Appendix B: Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (DPaW 2010)

### DEFINITIONS, CATEGORIES AND CRITERIA FOR THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

#### 1. GENERAL DEFINITIONS

##### **Ecological Community**

A naturally occurring biological assemblage that occurs in a particular type of habitat.

Note: The scale at which ecological communities are defined will often depend on the level of detail in the information source, therefore no particular scale is specified.

A **threatened ecological community** (TEC) is one which is found to fit into one of the following categories; “presumed totally destroyed”, “critically endangered”, “endangered” or “vulnerable”.

Possible threatened ecological communities that do not meet survey criteria are added to DEC’s Priority Ecological Community Lists under Priorities 1, 2 and 3. Ecological Communities that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

An **assemblage** is a defined group of biological entities.

**Habitat** is defined as the areas in which an organism and/or assemblage of organisms lives. It includes the abiotic factors (eg. substrate and topography), and the biotic factors.

**Occurrence:** a discrete example of an ecological community, separated from other examples of the same community by more than 20 metres of a different ecological community, an artificial surface or a totally destroyed community.

By ensuring that every discrete occurrence is recognised and recorded future changes in status can be readily monitored.

**Adequately Surveyed** is defined as follows:

“An ecological community that has been searched for thoroughly in most likely habitats, by relevant experts.”

**Community structure** is defined as follows:

“The spatial organisation, construction and arrangement of the biological elements comprising a biological assemblage” (eg. *Eucalyptus salmonophloia* woodland over scattered small shrubs over dense herbs; structure in a faunal assemblage could refer to trophic structure, eg. dominance by feeders on detritus as distinct from feeders on live plants).

**Definitions of Modification and Destruction** of an ecological community:



**Modification:** “changes to some or all of ecological processes (including abiotic processes such as hydrology), species composition and community structure as a direct or indirect result of human activities. The level of damage involved could be ameliorated naturally or by human intervention.”

**Destruction:** “modification such that reestablishment of ecological processes, species composition and community structure within the range of variability exhibited by the original community is unlikely within the foreseeable future even with positive human intervention.”

**Note:** Modification and destruction are difficult concepts to quantify, and their application will be determined by scientific judgement. Examples of modification and total destruction are cited below:

**Modification of ecological processes:** The hydrology of Toolibin Lake has been altered by clearing of the catchment such that death of some of the original flora has occurred due to dependence on fresh water. The system may be brought back to a semblance of the original state by redirecting saline runoff and pumping waters of the rising underground watertable away to restore the hydrological balance. Total destruction of downstream lakes has occurred due to hydrology being altered to the point that few of the original flora or fauna species are able to tolerate the level of salinity and/or water logging.

**Modification of structure:** The understorey of a plant community may be altered by weed invasion due to nutrient enrichment by addition of fertiliser. Should the additional nutrients be removed from the system the balance may be restored, and the original plant species better able to compete. Total destruction may occur if additional nutrients continue to be added to the system causing the understorey to be completely replaced by weed species, and death of overstorey species due to inability to tolerate high nutrient levels.

**Modification of species composition:** Pollution may cause alteration of the invertebrate species present in a freshwater lake. Removal of pollutants may allow the return of the original inhabitant species. Addition of residual highly toxic substances may cause permanent changes to water quality, and total destruction of the community.

**Threatening processes** are defined as follows:

“Any process or activity that threatens to destroy or significantly modify the ecological community and/or affect the continuing evolutionary processes within any ecological community.”

Examples of some of the continuing threatening processes in Western Australia include: general pollution; competition, predation and change induced in ecological communities as a result of introduced animals; competition and displacement of native plants by introduced species; hydrological changes; inappropriate fire regimes; diseases resulting from introduced microorganisms; direct human exploitation and disturbance of ecological communities.

**Restoration** is defined as returning an ecological community to its pre-disturbance or natural state in terms of abiotic conditions, community structure and species composition.

**Rehabilitation** is defined as the re-establishment of ecological attributes in a damaged ecological community although the community will remain modified.



## 2. DEFINITIONS AND CRITERIA FOR PRESUMED TOTALLY DESTROYED, CRITICALLY ENDANGERED, ENDANGERED AND VULNERABLE ECOLOGICAL COMMUNITIES

### Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies ( A or B):

- A) Records within the last 50 years have not been confirmed despite thorough searches of known or likely habitats or
- B) All occurrences recorded within the last 50 years have since been destroyed

### Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

An ecological community will be listed as **Critically Endangered** when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting **any one or more** of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% **and either or both** of the following apply (i or ii):
  - i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 10 years);
  - ii) modification throughout its range is continuing such that in the immediate future (within approximately 10 years) the community is unlikely to be capable of being substantially rehabilitated.
- B) Current distribution is limited, **and one or more** of the following apply (i, ii or iii):
  - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 10 years);
  - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes;



iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.

C) The ecological community exists only as highly modified occurrences that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).

### **Endangered (EN)**

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

An ecological community will be listed as **Endangered** when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information by it meeting **any one or more** of the following criteria (A, B, or C):

A) The geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement **and either or both** of the following apply (i or ii):

i) the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years);

ii) modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated.

B) Current distribution is limited, **and one or more** of the following apply (i, ii or iii):

i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years);

ii) there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes;

iii) there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes.

C) The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).



**Vulnerable (VU)**

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

An ecological community will be listed as **Vulnerable** when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium to long-term future. This will be determined on the basis of the best available information by it meeting **any one or more** of the following criteria (A, B or C):

A) The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated.

B) The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations.

C) The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

**3. DEFINITIONS AND CRITERIA FOR PRIORITY ECOLOGICAL COMMUNITIES****PRIORITY ECOLOGICAL COMMUNITY LIST**

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community Lists under Priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community, and evaluation of conservation status, so that consideration can be given to their declaration as threatened ecological communities. Ecological Communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

**Priority One:** Poorly-known ecological communities

Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

**Priority Two:** Poorly-known ecological communities



Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

**Priority Three:** Poorly known ecological communities

- (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
- (ii) communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;
- (iii) communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

**Priority Four:** Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

- (a) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.
- (b) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Ecological communities that have been removed from the list of threatened communities during the past five years.

**Priority Five:** Conservation Dependent ecological communities

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.



**Appendix C: Results of the Interrogation of the Department of Parks and Wildlife's Western Australian Herbarium (WAHerb) Specimen Database, Threatened and Priority Flora Database (TPFL) and Threatened and Priority Flora List (TP List) (DPaW 2013c)**

Taxon	Conservation Code	WAHerb	TPFL	TP List	Preferred Habitat Requirements	Flowering Period
<i>Acacia desertorum</i> var. <i>nudipes</i>	P3			X	Sandplains, flats, yellow sand, occasionally lateritic gravel	Aug - Oct
<i>Austrostipa blackii</i>	P3			X	Banded ironstone ridges, breakaways, basalt hills, rocky areas, occasionally plains and creeklines.	
<i>Baeckea</i> sp. Bungalbin Hill (B.J. Lepschi & L.A. Craven 4586)	P3		X		Sandplains, lower slopes, flats (sometimes gravelly). Yellow-brown sand, laterite, gravel.	Nov
<i>Baeckea</i> sp. Die Hardy Range (E. Mattiske J91)	P1			X	Flat lower slope with sandy silt.	
<i>Baeckea</i> sp. Jaurdi Station (L.W. Sage & F. Hort 2229)	P2	X	X		Sandplain, light brown/yellow sand	Oct
<i>Baeckea</i> sp. Tammin (R. Coveny 8319 & B. Habberley)	P3			X	Gentle slopes, breakaways, disturbed ground. Light brown sandy clay or loam, silty yellow-grey sand, orange brown sand or loam, gravel.	Aug - Oct
<i>Banksia arborea</i>	P4	X	X	X	Banded Ironstone hills. Stony loam.	Mar - May or Sep - Oct.
<i>Beyeria rostellata</i>	P1	X	X	X	Banded ironstone hills	
<i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)	P3	X	X	X	Breakaways and outcrops, laterite, granite or ironstone soils.	July
<i>Elachanthus pusillus</i>	P2			X	Flats, plains, upper slopes. Red orange clay loam, sometimes with greenstone and granite gravel, limestone	Aug - Oct
<i>Eremophila succinea</i>	P3			X	Flats, low rises. White sand and sandy loam, sometimes over granite, brown clay loam, red clay	Sep
<i>Eucalyptus exigua</i>	P3			X	Sandy loam, white sand. Sandplains, depressions, edges of salt lakes	Mar
<i>Frankenia brachyphylla</i>	P2		X	X	Salt lake margins.	Nov



Taxon	Conservation Code	WAHerb	TPFL	TP List	Preferred Habitat Requirements	Flowering Period
<i>Gastrolobium graniticum</i>	T			X	Granite outcrops, margins of rock outcrops, along drainage lines on granite outcrops. Sand, sandy loam, granite.	Aug - Sep
<i>Gnephosis</i> sp. Norseman (K.R. Newbey 8096)	P3			X	Floodplains, flats, drainage lines, base of breakaways. Loamy soils	Sep - Oct
<i>Gompholobium cinereum</i>	P3		X	X	Well-drained open sites, slopes, plains, roadsides. Yellow sand, clayey sand, brown loam, sandy gravel, laterite.	Sep - Oct
<i>Goodenia jaurdiensis</i>	P2			X	Red clayey loam with laterite or banded ironstone gravel or quartz pebbles. Low-lying plains and lower slopes	Sep - Oct
<i>Grevillea tetrapleura</i>	P4	X	X	X	Granite outcrops, flats and plains near granite. Sandy loam or sand on granite.	Jul - Sep
<i>Haegiela tatei</i>	P4			X	Saline habitats, one collection on banded ironstone hill. Clay, sandy loam, gypsum	Aug - Nov
<i>Hemigenia tenelliflora</i>	P2	X	X	X	Sandplains. Light brown/yellow sand.	Oct
<i>Hibbertia lepidocalyx</i> ssp. <i>tuberculata</i>	P3	X	X	X	Banded ironstone ridges, valley slopes. Yellow-orange loam, ironstone gravel.	
<i>Lepidium merrallii</i>	P2	X	X	X	Flats. Clay loam	
<i>Lepidosperma ferricola</i>	P3	X	X	X	Banded Ironstone ridges, scree slopes, drainage lines.	
<i>Lepidosperma lyonsii</i>	P3			X	Banded Ironstone Ridges, scree slopes, drainage lines.	
<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)	P1			X	Undulating sand plain. Dry yellow loamy sand.	?Winter
<i>Lissanthe scabra</i>	P2	X	X	X	Dry, white to orange-brown clay, sandy gravel loams, decomposing granite. Decomposing granite breakaways, uplands.	Aug
<i>Mirbelia ferricola</i>	P3			X	Banded Ironstone ridges, cliffs.	Jun - Nov



Taxon	Conservation Code	WAHerb	TPFL	TP List	Preferred Habitat Requirements	Flowering Period
<i>Phlegmatospermum eremaeum</i>	P2		X		Stony loam, clayey solis. Upper slopes of valley, gentle midslope with a NW aspect, flat plain, in depressions, edges of saline lake.	Aug - Oct
<i>Sowerbaea multicaulis</i>	P4			X		
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155)	P3	X	X	X	Banded ironstone ranges, slopes	
<i>Stenanthemum newbeyi</i>	P3	X	X	X	Clayey sand, clay or loam over laterite or ironstone. Hillslopes of banded ironstone or lateritic ridges	Aug – Sep, or Dec or Jan.
<i>Stylidium choreanthum</i>	P3	X	X	X	White/yellow or red sand. Plains	Sep - Nov
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	X	X	X	Clay loam soils over laterite or duricrust outcropping. Breakaways, hill slopes.	Apr - Jul
<i>Tecticornia flabelliformis</i>	P1			X	Saline clay. Salt lakes, saline flats	
<i>Tetratheca erubescens</i>	T	X	X	X	Red clay loam. Cliff lines with exposed banded ironstone. Only known from Koolyanobbing range	
<i>Verticordia mitodes</i>	P3		X		Yellow sand, occasionally over laterite. Sandplains, undulating plains	Oct - Dec
<i>Verticordia pulchella</i>	P2		x		Sandy soils over granite. Massive granite areas, granite sheets	Oct - Nov



## Appendix D: Conservation Codes for Western Australian Flora and Fauna (DPaW 2013e)

**T: Threatened species** - Specially protected under the *Wildlife Conservation Act 1950*, listed under Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Species\* which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.

**X: Presumed extinct species** - Specially protected under the *Wildlife Conservation Act 1950*, listed under Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora (which may also be referred to as Declared Rare Flora).

Species\* which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such.

Threatened Fauna and Flora are further recognised by the Department according to their level of threat using IUCN Red List criteria. For example Carnaby's Cockatoo *Calyptorhynchus latirostris* is specially protected under the *Wildlife Conservation Act 1950* as a threatened species with a ranking of endangered.

### Ranking:

CR: Critically Endangered - considered to be facing an extremely high risk of extinction in the wild.

EN: Endangered – considered to be facing a very high risk of extinction in the wild.

VU: Vulnerable - considered to be facing a high risk of extinction in the wild.

Species that have not yet been adequately surveyed to be listed under Schedule 1 or 2 are added to the Priority Flora and Priority Fauna Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna. Species that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Conservation Dependent species are placed in Priority 5.

### 1: Priority One: Poorly-known species

Species that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, rail reserves and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more localities but do not meet



adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

**2: Priority Two: Poorly-known species**

Species that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.

**3: Priority Three: Poorly-known species**

Species that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.

**4: Priority Four: Rare, Near Threatened and other species in need of monitoring**

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

**Priority Five: Conservation Dependent species**

Species that are not threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

\*Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies, variety or forma).



## Appendix E: Environmental Weed Strategy - Criteria for the Assessment and Rating of Weeds in Terms of their Environmental Impact on Biodiversity (CALM 1999)

### ENVIRONMENTAL WEEDS RATING

- **Invasiveness**- ability to invade bushland in good to excellent condition or ability to invade waterways (Score as yes or no).
- **Distribution** – wide current or potential distribution including consideration of known history of wide spread distribution elsewhere in the world (Score as yes or no).
- **Environmental Impacts** – ability to change the structure, composition and function of ecosystems; in particular an ability to form a monoculture in a vegetation community (Score as yes or no).

#### The Rating System used in the Environmental Weed Strategy for Western Australia

<b>High</b>	A weed species would have to score yes for all three criteria. Rating a weed species as high would indicate prioritising this weed for control and/or research.
<b>Moderate</b>	A weed species would have to score yes for two of the above criteria. Rating a weed species as moderate would indicate that control or research effort should be directed to it if funds are available; however it should be monitored (possibly a reasonably high level of monitoring).
<b>Mild</b>	A weed species scoring one of the criteria. A mild rating would indicate monitoring of the weed and control where appropriate.
<b>Low</b>	A weed species would score none of the criteria. A low ranking would mean that this species would require a low level of monitoring.



**Appendix F: Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces (adapted from Keighery 1994, for Pilbara Biodiversity Survey)**

<b>Condition Ranking</b>	<b>Description</b>
E (Excellent)	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
VG (Very Good)	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
G (Good)	More obvious signs of damage caused by human activities since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
P (Poor)	Still retains basic vegetation structure or ability to regenerate to it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
VP (Very Poor)	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
D (Completely Degraded)	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising of weed or crop species with isolated native trees or shrubs.



## Appendix G: List of Vascular Plant Taxa Omitted From the Data Matrix for Analysis

<b>Taxon</b>	<b>Reasoning</b>
<i>Acacia hemiteles</i>	Deleted – Singleton
<i>Acacia incurvaneura</i>	Deleted – Singleton
* <i>Acetosa vesicaria</i>	Deleted – Introduced taxon
<i>Actinobole uliginosum</i>	Deleted – Ephemeral taxon
<i>Alyogyne hakeifolia</i>	Deleted – Singleton
? <i>Amphipogon caricinus</i> var. <i>caricinus</i>	Deleted – insufficient material for identification
<i>Androcalva luteiflora</i>	Deleted – Singleton
<i>Aristida contorta</i>	Deleted – Ephemeral flowering taxon not identifiable at all locations
<i>Arthropodium curvipes</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Austrostipa blackii</i> (P3)	Deleted – Ephemeral flowering taxon not identifiable at all locations
<i>Austrostipa nitida</i>	Deleted – Ephemeral flowering taxon not identifiable at all locations
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	Deleted – Ephemeral flowering taxon not identifiable at all locations
? <i>Austrostipa</i> sp.	Deleted – insufficient material for identification
<i>Blennospora drummondii</i>	Deleted – Ephemeral taxon
<i>Brachyscome perpusilla</i>	Deleted – Ephemeral taxon
* <i>Brassica tournefortii</i>	Deleted – Introduced taxon
* <i>Bromus rubens</i>	Deleted – Introduced taxon
<i>Brunonia australis</i>	Deleted – Ephemeral taxon
<i>Caladenia</i> sp.	Deleted – Geophytic taxon not identifiable at all locations
<i>Calandrinia calyptrata</i>	Deleted – Ephemeral taxon
<i>Calandrinia eremaea</i>	Deleted – Ephemeral taxon
<i>Calandrinia</i> sp.	Deleted – insufficient material for identification
<i>Calotis hispidula</i>	Deleted – Ephemeral taxon
* <i>Carrichtera annua</i>	Deleted – Introduced taxon
<i>Cephalopterum drummondii</i>	Deleted – Ephemeral taxon
<i>Cheilanthes adiantoides</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Chthonocephalus pseudevax</i>	Deleted – Ephemeral taxon
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	Deleted – Introduced taxon



<b>Taxon</b>	<b>Reasoning</b>
<i>Comesperma volubile</i>	Deleted – Singleton
<i>Commersonia magniflora</i> subsp. <i>oblongifolia</i>	Deleted – Singleton
<i>Crassula</i> ? <i>tetramera</i>	Deleted – Ephemeral taxon
* <i>Cuscuta planiflora</i>	Deleted – Introduced taxon
<i>Cyanicula amplexans</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Cynoglossum australe</i>	Deleted – Ephemeral taxon
<i>Daucus glochidiatus</i>	Deleted – Ephemeral taxon
<i>Drosera</i> ? <i>macrantha</i>	Deleted – Geophytic taxon not identifiable at all locations
* <i>Ehrharta longiflora</i>	Deleted – Introduced taxon
? <i>Enchylaena</i> x <i>Maireana georgei</i>	Deleted – most likely a hybrid
<i>Eragrostis dielsii</i>	Deleted – Ephemeral taxon
<i>Eremophila maculata</i> subsp. <i>brevifolia</i>	Deleted – Singleton
* <i>Erodium aureum</i>	Deleted – Introduced taxon
* <i>Erodium cicutarium</i>	Deleted – Introduced taxon
<i>Erodium cygnorum</i>	Deleted – Ephemeral taxon
<i>Euphorbia philochalix</i>	Deleted – Ephemeral taxon
* <i>Galium aparine</i>	Deleted – Introduced taxon
<i>Goodenia berardiana</i>	Deleted – Ephemeral taxon
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>	Deleted – Singleton
<i>Hakea recurva</i> subsp. <i>recurva</i>	Deleted – Singleton
<i>Haloragis</i> ? <i>trigonocarpa</i>	Deleted – Ephemeral taxon
<i>Hydrocotyle pilifera</i> var. <i>glabrata</i>	Deleted – Ephemeral taxon
<i>Hydrocotyle rugulosa</i>	Deleted – Ephemeral taxon
* <i>Hypochoeris glabra</i>	Deleted – Introduced taxon
<i>Isoetopsis graminifolia</i>	Deleted – Ephemeral taxon
<i>Lawrencella rosea</i>	Deleted – Ephemeral taxon
<i>Leucochrysum fitzgibbonii</i>	Deleted – Ephemeral taxon
<i>Lomandra effusa</i>	Deleted – Singleton
<i>Maireana thesioides</i>	Deleted – Singleton
* <i>Medicago minima</i>	Deleted – Introduced taxon
<i>Melaleuca radula</i>	Deleted – Singleton
<i>Menkea australis</i>	Deleted – Ephemeral taxon
<i>Millotia myosotidifolia</i>	Deleted – Ephemeral taxon
* <i>Monoculus monstrosus</i>	Deleted – Introduced taxon
<i>Nicotiana rotundifolia</i>	Deleted – Singleton
<i>Olearia stuartii</i>	Deleted – Singleton



<b>Taxon</b>	<b>Reasoning</b>
<i>Oxalis exilis</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Parietaria cardiostegia</i>	Deleted – Ephemeral taxon
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	Deleted – Introduced taxon
<i>Phebalium canaliculatum</i>	Deleted – Singleton
<i>Phebalium lepidotum</i>	Deleted – Singleton
<i>Phebalium tuberculosum</i>	Deleted – Singleton
<i>Phlegmatospermum drummondii</i>	Deleted – Ephemeral taxon
<i>Phyllangium sulcatum</i>	Deleted – Ephemeral taxon
<i>Plantago debilis</i>	Deleted – Ephemeral taxon
<i>Pleurosorus rutifolius</i>	Deleted – Geophytic taxon not identifiable at all locations
Poaceae sp.	Deleted – insufficient material for identification
<i>Podolepis tepperi</i>	Deleted – Ephemeral taxon
<i>Pterostylis</i> sp. dainty brown (N. Gibson & M. Lyons 3690)	Deleted – Geophytic taxon not identifiable at all locations
<i>Pterostylis</i> sp. inland (A.C. Beauglehole 11880)	Deleted – Geophytic taxon not identifiable at all locations
<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>	Deleted – Ephemeral taxon
<i>Radyera farragei</i>	Deleted – Singleton
<i>Rhodanthe battii</i>	Deleted – Ephemeral taxon
<i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i>	Deleted – Ephemeral taxon
<i>Rhodanthe rubella</i>	Deleted – Ephemeral taxon
? <i>Rhyncharrhena linearis</i>	Deleted – insufficient material for identification
<i>Rytidosperma caespitosum</i>	Deleted – Ephemeral flowering taxon not identifiable at all locations
<i>Schoenia cassiniana</i>	Deleted – Ephemeral taxon
<i>Sclerolaena patentiscuspis</i>	Deleted – Singleton
<i>Senecio glossanthus</i>	Deleted – Ephemeral taxon
<i>Senecio picridioides</i>	Deleted – Ephemeral taxon
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	Deleted – Hybrid
<i>Senna charlesiana</i>	Deleted – Singleton
<i>Senna pleurocarpa</i> var. <i>angustifolia</i>	Deleted – Singleton
* <i>Silene nocturna</i>	Deleted – Introduced taxon
* <i>Solanum nigrum</i>	Deleted – Introduced taxon
* <i>Sonchus oleraceus</i>	Deleted – Introduced taxon
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3)	Deleted – Singleton
<i>Stenopetalum filifolium</i>	Deleted – Ephemeral taxon



<b>Taxon</b>	<b>Reasoning</b>
<i>Stylidium dielsianum</i>	Deleted – Singleton
<i>Swainsona canescens</i>	Deleted – Singleton
<i>Templetonia smithiana</i>	Deleted – Singleton
<i>Tetratheca erubescens</i> (T)	Deleted – Singleton
<i>Thysanotus manglesianus</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Thysanotus speckii</i>	Deleted – Geophytic taxon not identifiable at all locations
<i>Trachymene ornata</i>	Deleted – Ephemeral taxon
<i>Trachymene pilosa</i>	Deleted – Ephemeral taxon
<i>Velleia hispida</i>	Deleted – Ephemeral taxon
<i>Vittadinia humerata</i>	Deleted – Ephemeral taxon
* <i>Vulpia muralis</i>	Deleted – Introduced taxon
* <i>Vulpia myuros</i> forma <i>myuros</i>	Deleted – Introduced taxon
<i>Wahlenbergia ?gracilentia</i>	Deleted – Ephemeral taxon
<i>Waitzia acuminata</i> var. <i>acuminata</i>	Deleted – Ephemeral taxon
<i>Zygophyllum eremaeum</i>	Deleted – Ephemeral taxon
<i>Zygophyllum ovatum</i>	Deleted – Ephemeral taxon



## **Appendix H: Species Area Curves and Adequacy of Survey Measure Values**



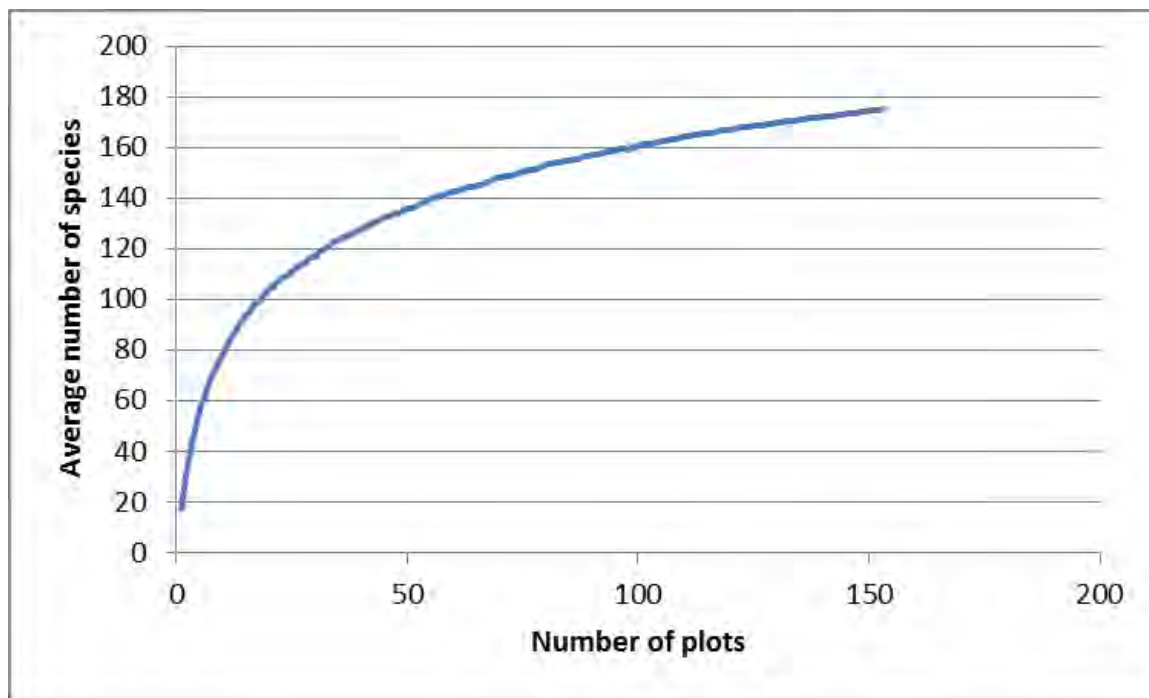


Chart 1: Species Area Curve for Quadrats established throughout the Study Area

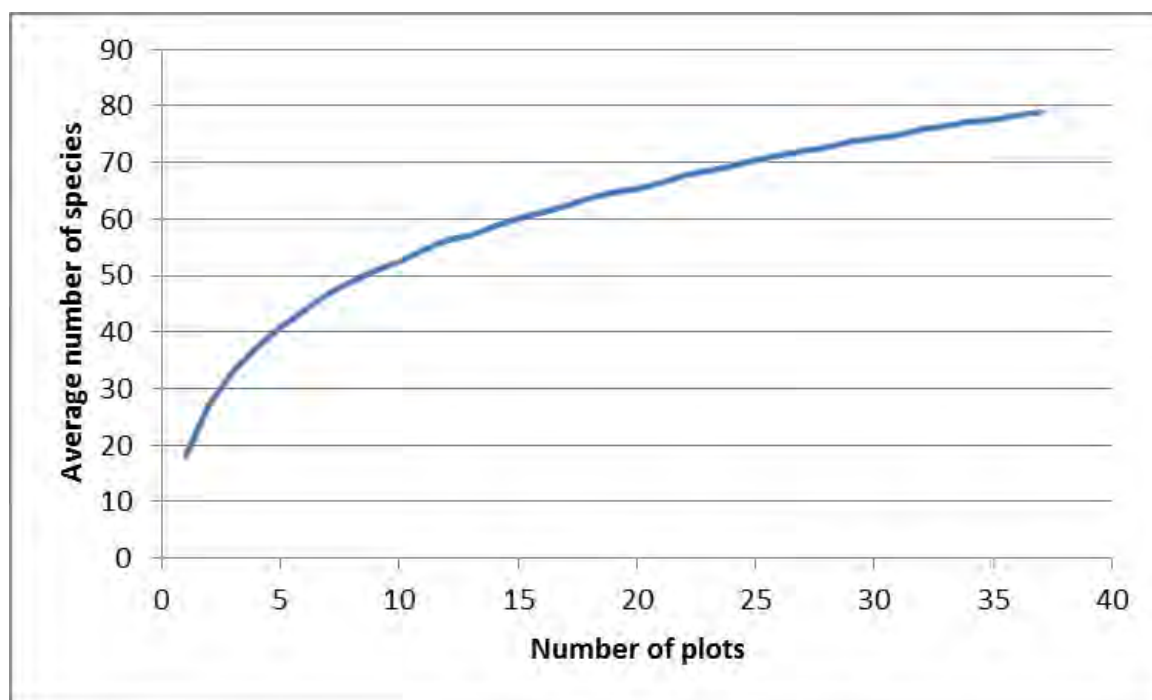


Chart 2: Species Area Curve for Quadrats established in Vegetation Unit 1



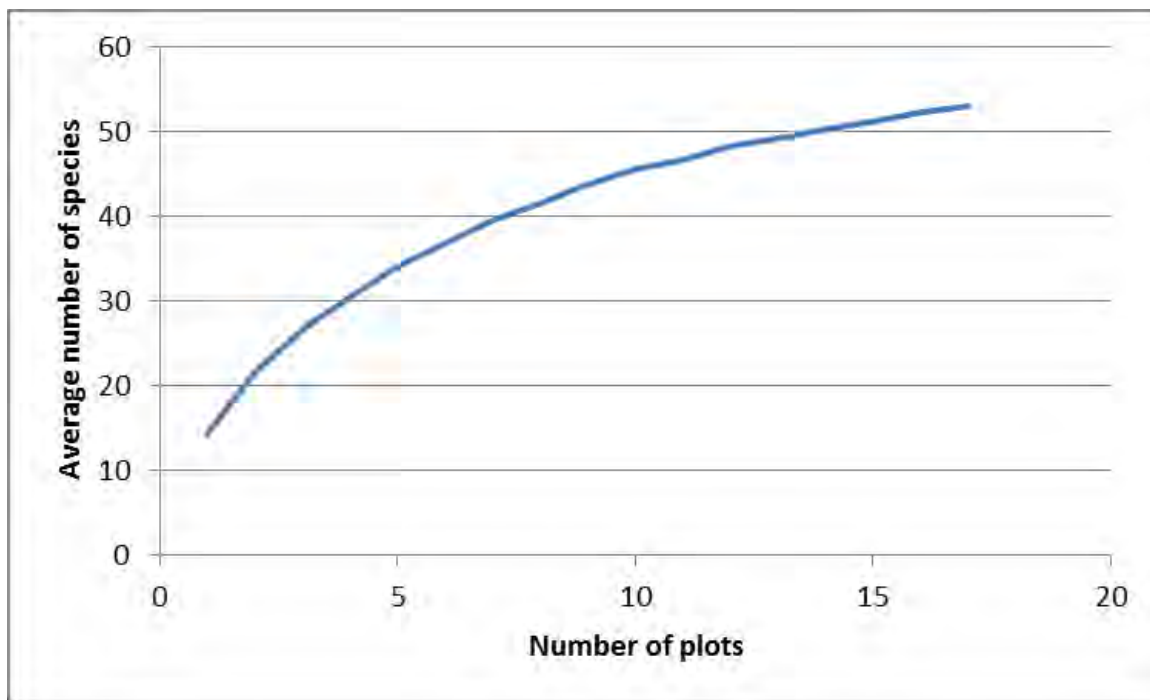


Chart 3: Species Area Curve for Quadrats established in Vegetation Unit 2

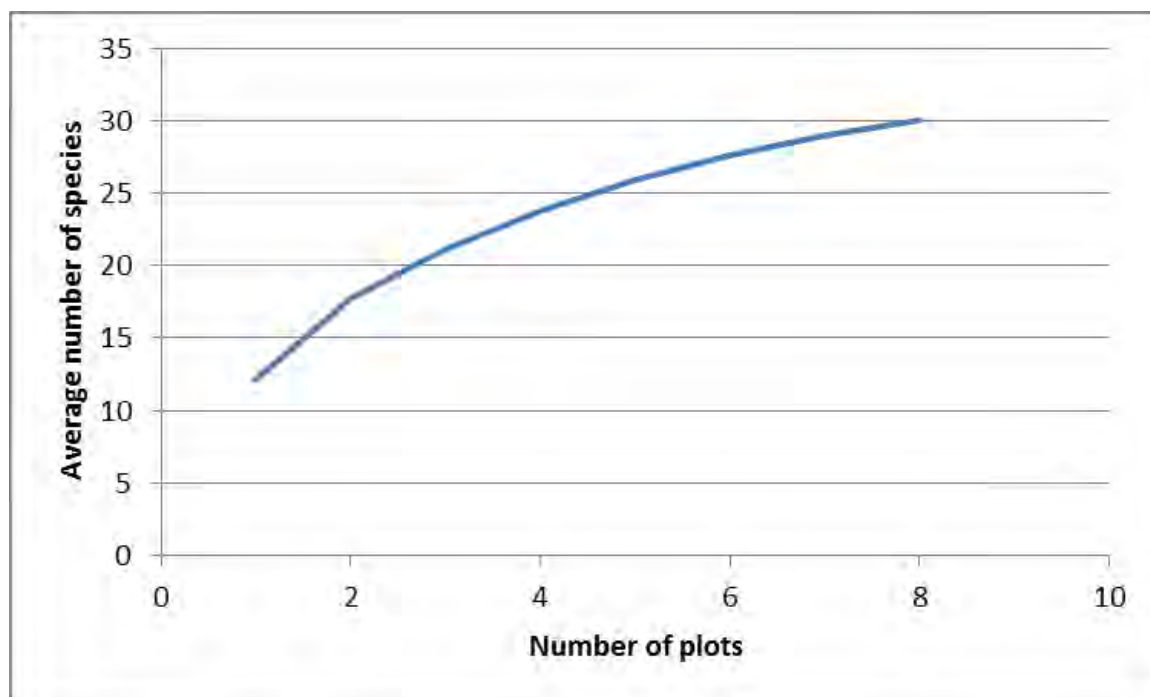


Chart 4: Species Area Curve for Quadrats established in Vegetation Unit 3



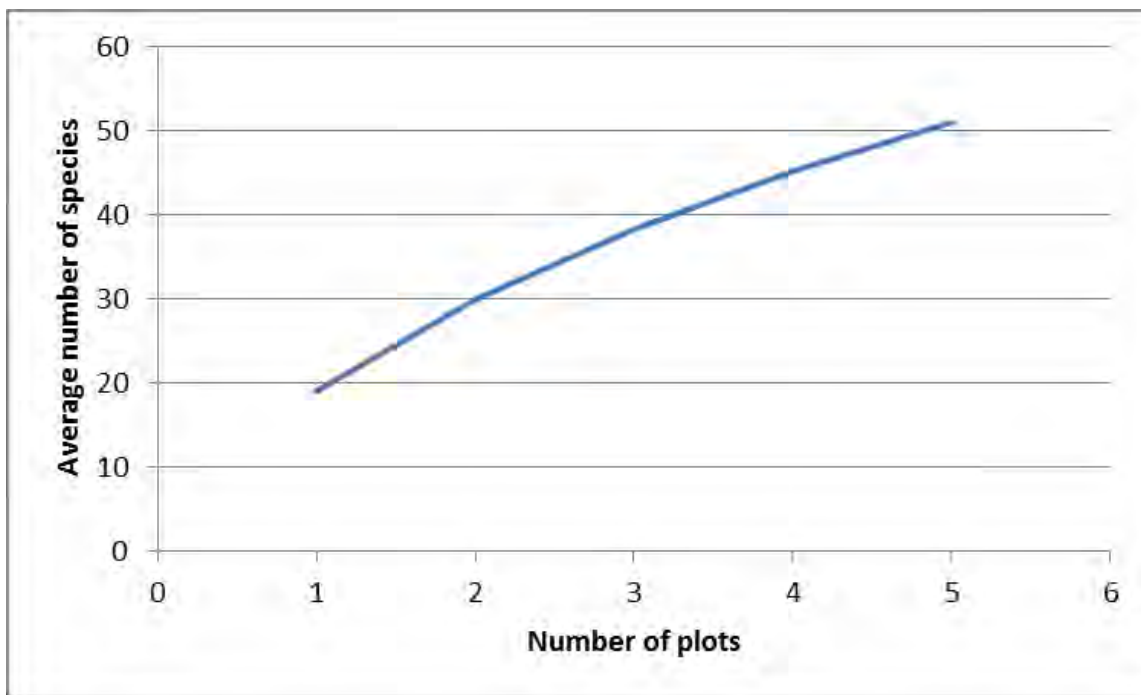


Chart 5: Species Area Curve for Quadrats established in Vegetation Unit 4

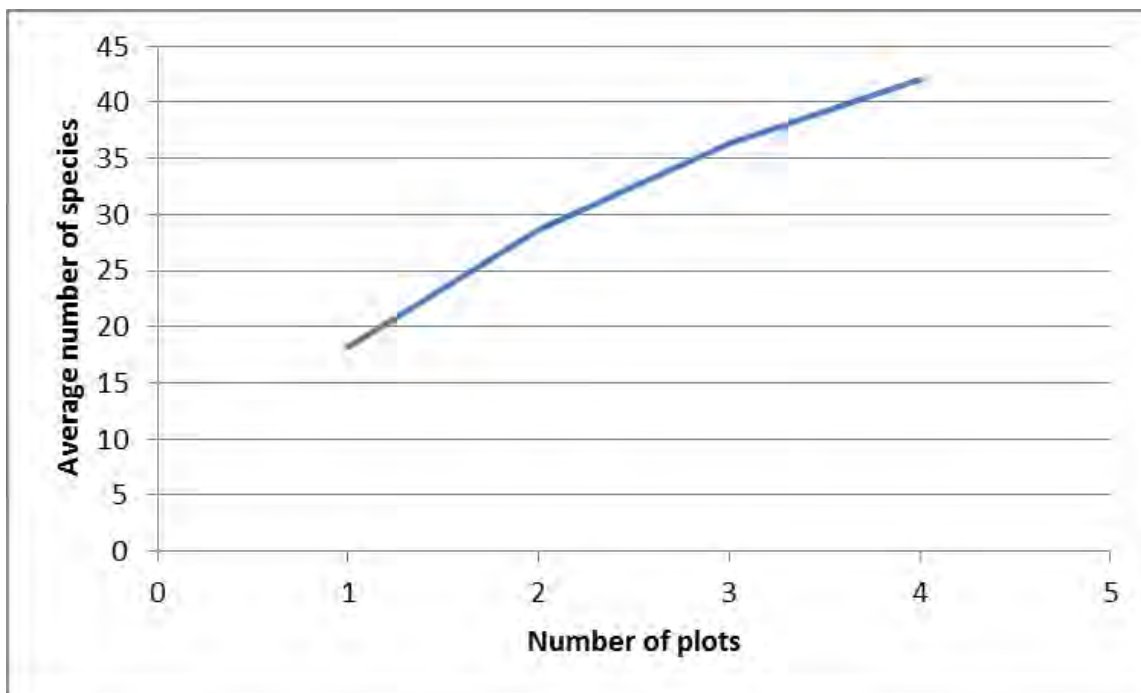


Chart 6: Species Area Curve for Quadrats established in Vegetation Unit 5

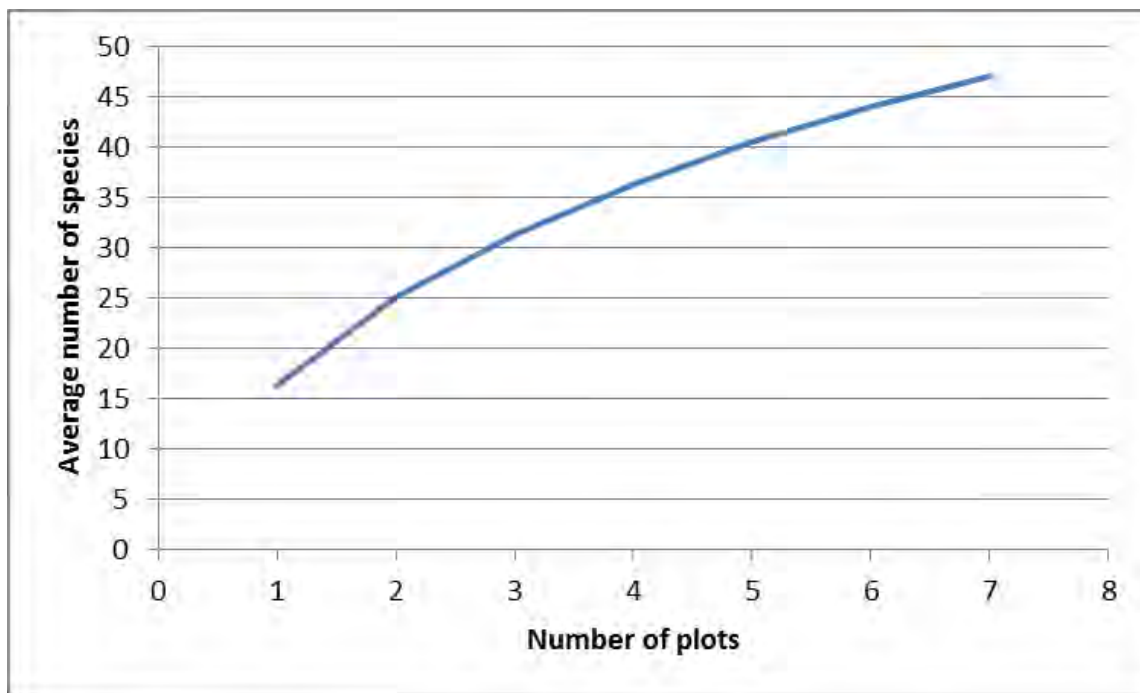


Chart 7: Species Area Curve for Quadrats established in Vegetation Unit 6

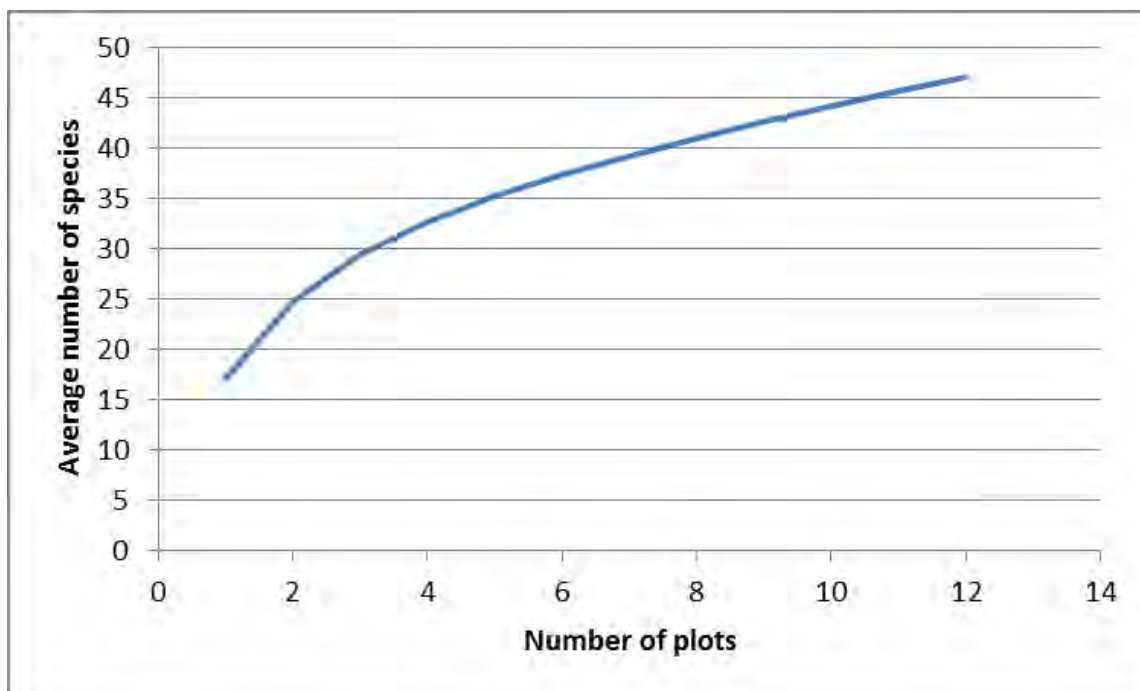


Chart 8: Species Area Curve for Quadrats established in Vegetation Unit 9



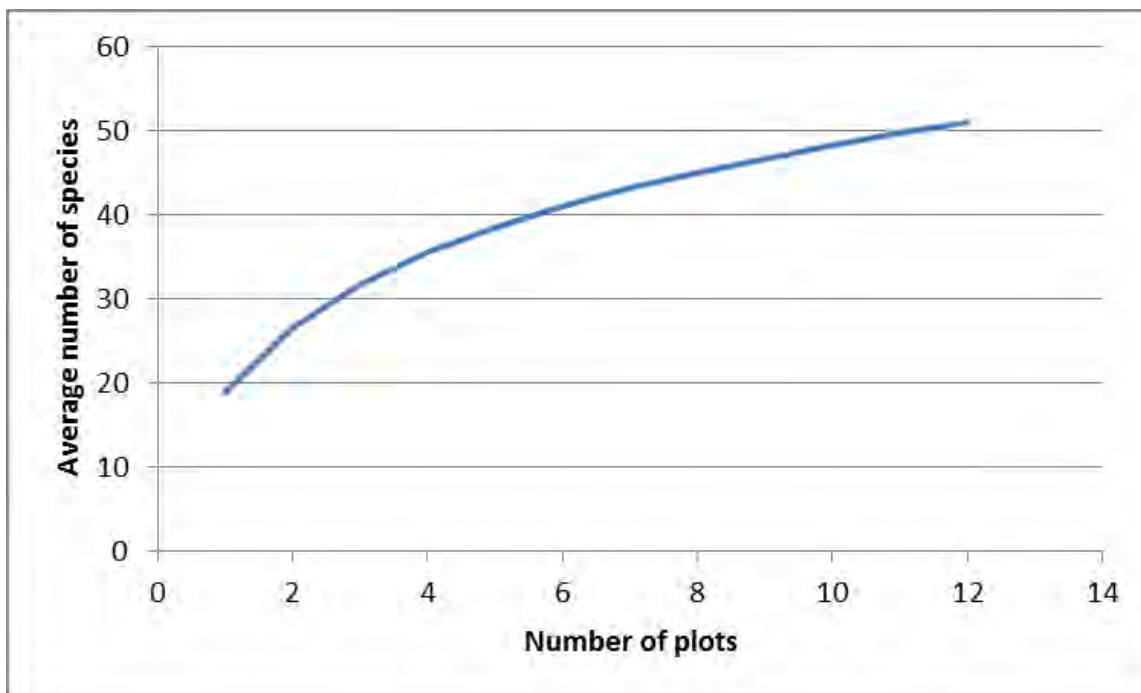


Chart 9: Species Area Curve for Quadrats established in Vegetation Unit 10

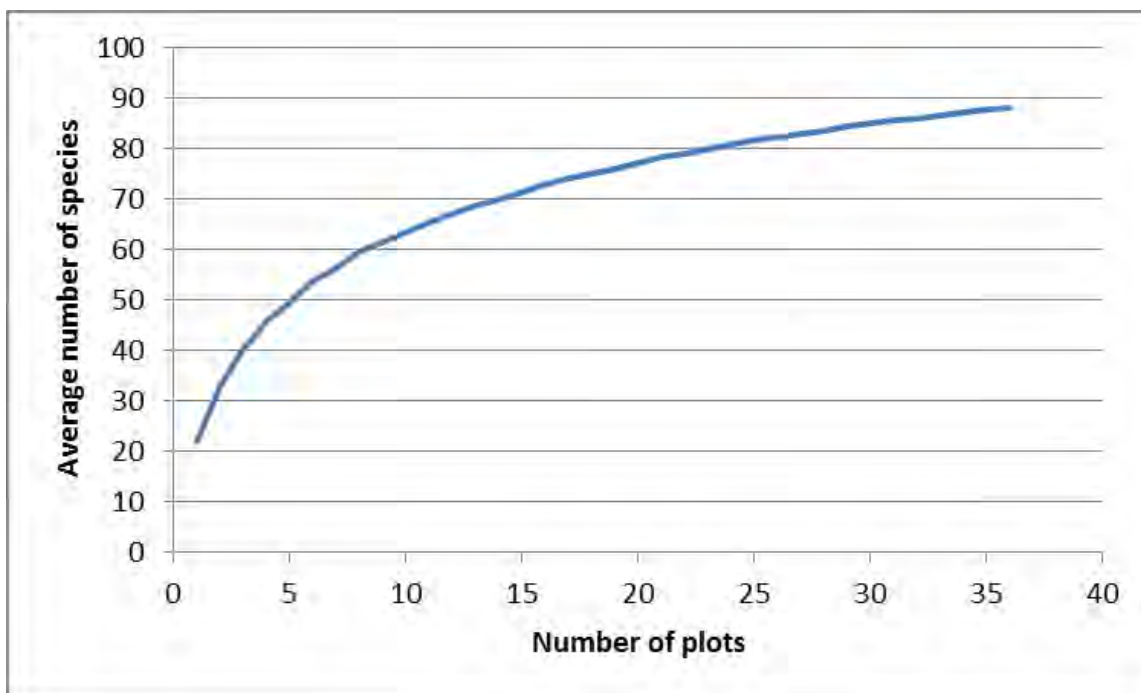


Chart 10: Species Area Curve for Quadrats established in Vegetation Unit 11

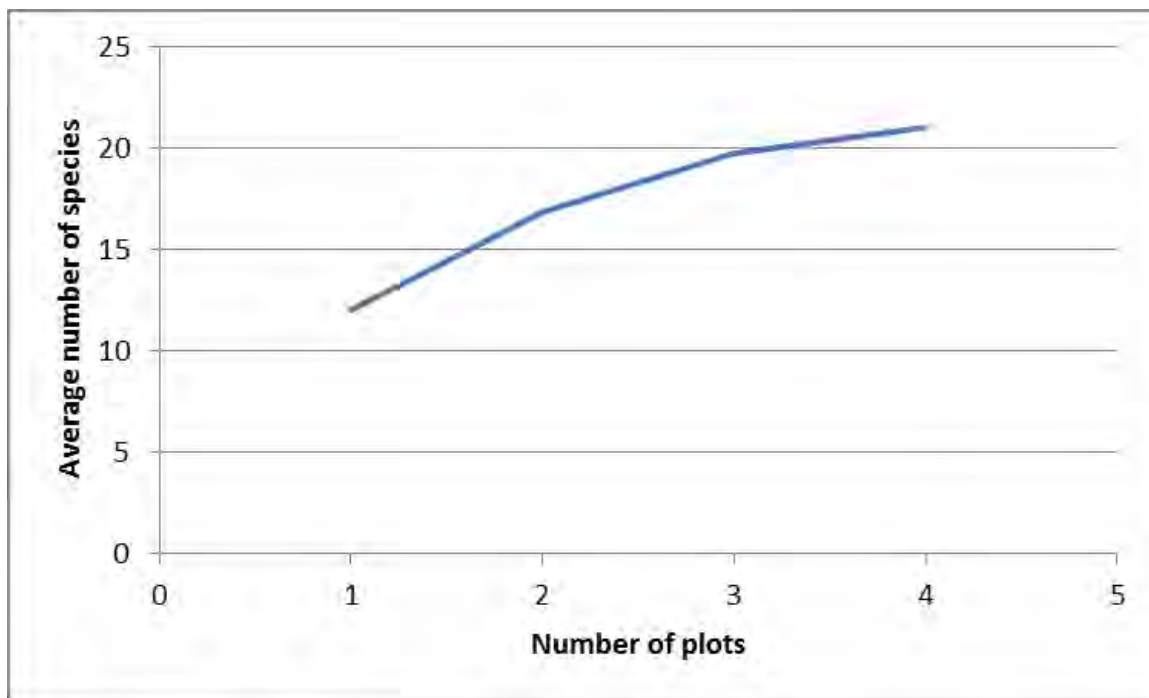


Chart 11: Species Area Curve for Quadrats established in Vegetation Unit 13

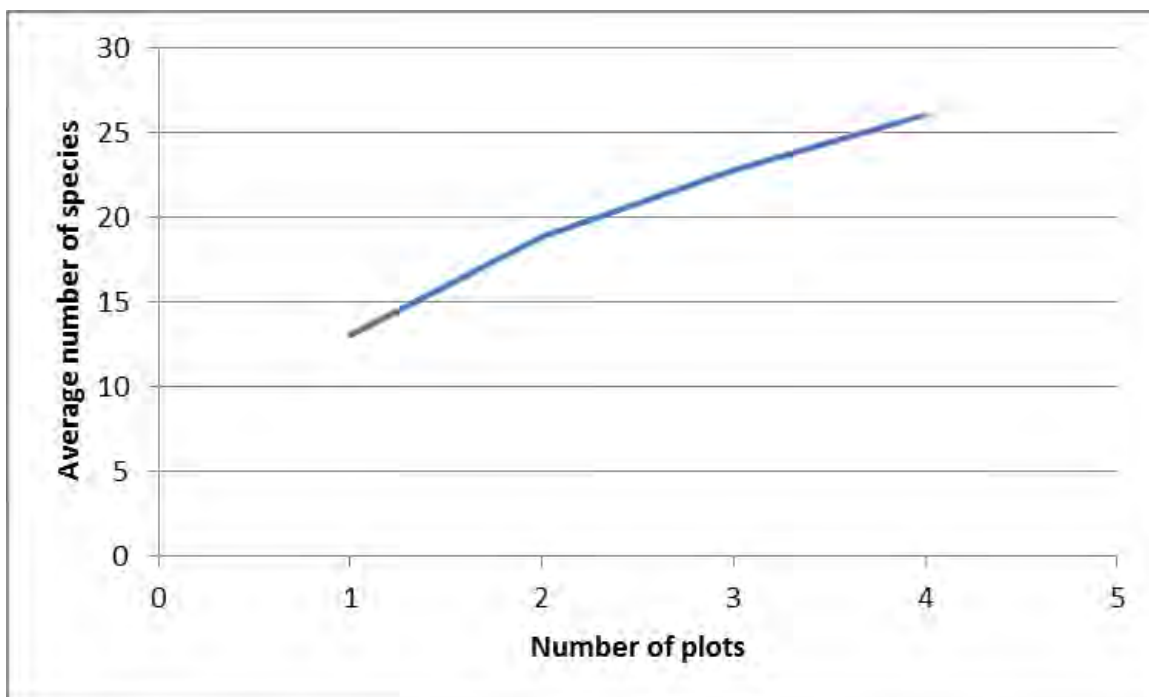


Chart 12: Species Area Curve for Quadrats established in Vegetation Unit 14



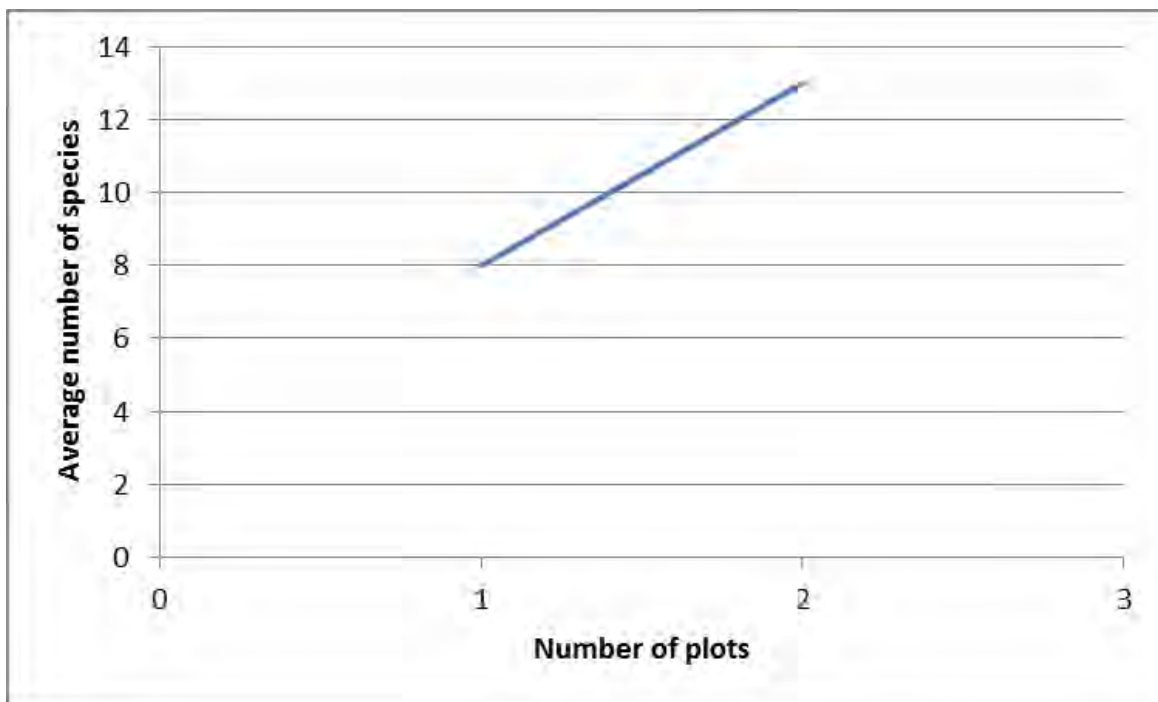


Chart 13: Species Area Curve for Quadrats established in Vegetation Unit 15

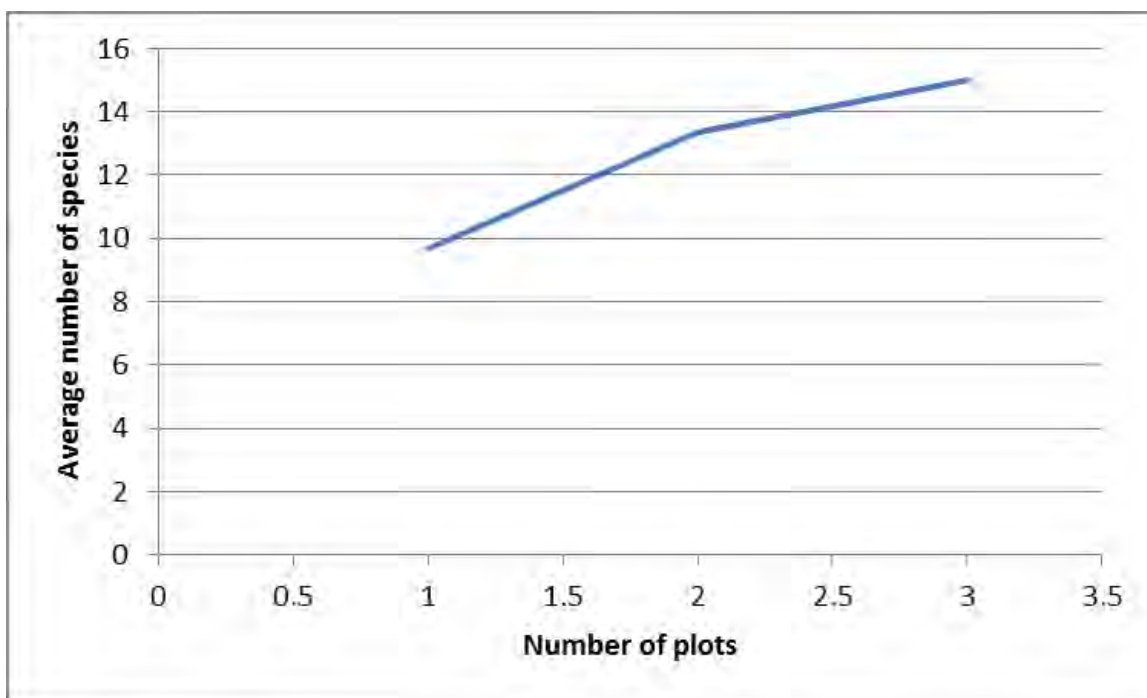


Chart 14: Species Area Curve for Quadrats established in Vegetation Unit 16

**Table 1: Increase in Number of Newly-Recorded Taxa per 10 % Increase in Number of Quadrats Surveyed**

<b>Sample</b>	<b>Percentage Increase in Newly-Recorded Taxa</b>	<b>Satisfies Criterion<sup>#</sup></b>
Total Study Area	1.57	Yes
Vegetation Unit 1	3.03	Yes
Vegetation Unit 2	2.55	Yes
Vegetation Unit 3	2.41	Yes
Vegetation Unit 4	5.13	No
Vegetation Unit 5	4.76	Yes
Vegetation Unit 6	4.09	Yes
Vegetation Unit 7	NA*	NA*
Vegetation Unit 8	NA*	NA*
Vegetation Unit 9	3.43	Yes
Vegetation Unit 10	2.95	Yes
Vegetation Unit 11	1.92	Yes
Vegetation Unit 12	NA*	NA*
Vegetation Unit 13	1.90	Yes
Vegetation Unit 14	4.29	Yes
Vegetation Unit 15	6.25	No
Vegetation Unit 16	2.51	Yes

\*Note: cannot be calculated, zero or 1 quadrat present in Study Area only.

<sup>#</sup>Note: criterion developed by Mueller-Dombois and Ellenberg (1974), who suggest that a cut-off point might be when a 10% increase in quadrats surveyed results in a 5% (or less) increase in species recorded.



## Appendix I: Location Coordinates of Malleefowl Nest Mounds Recorded in the Study Area by Woodman Environmental, 2013

Note: all coordinates in WGS84 Zone 50

<b>Easting</b>	<b>Northing</b>	<b>Comments</b>
751055	6580878	Inactive
743339	6584269	Inactive
744126	6584249	Inactive
750646	6579551	Active
750905	6579677	Inactive
746370	6583307	Inactive
751023	6580531	Inactive
750553	6580885	Inactive
751026	6581114	Inactive
751108	6579610	Inactive
751331	6580244	Inactive
750617	6580727	Inactive, very old
748303	6582523	Active
750760	6579530	Inactive
750984	6579490	Inactive, very old
750989	6579546	Possibly diggings
750985	6581087	Inactive, old
751460	6580767	Inactive, old
751336	6580246	Inactive, old
750464	6580869	Inactive
751192	6580759	Inactive, recently used
751417	6580845	Inactive, very old

**Appendix J: Vascular Plant Taxa Recorded in the Study Area, 2013**

Note: \* denotes introduced taxon

<b>Family</b>	<b>Taxon</b>
<b>Aizoaceae</b>	* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>
<b>Amaranthaceae</b>	<i>Ptilotus divaricatus</i> <i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i> <i>Ptilotus holosericeus</i> <i>Ptilotus nobilis</i> subsp. <i>nobilis</i> <i>Ptilotus obovatus</i> var. <i>obovatus</i>
<b>Apiaceae</b>	<i>Daucus glochidiatus</i>
<b>Apocynaceae</b>	<i>Alyxia buxifolia</i> <i>Rhyncharrhena linearis</i>
<b>Araliaceae</b>	<i>Hydrocotyle pilifera</i> var. <i>glabrata</i> <i>Hydrocotyle rugulosa</i> <i>Trachymene ornata</i> <i>Trachymene pilosa</i>
<b>Asparagaceae</b>	<i>Arthropodium curvipes</i> <i>Thysanotus manglesianus</i> <i>Thysanotus speckii</i> <i>Xerolirion divaricata</i>
<b>Aspleniaceae</b>	<i>Pleurosorus rutifolius</i>
<b>Asteraceae</b>	<i>Actinobole uliginosum</i> <i>Asteridea athrxioides</i> <i>Blennospora drummondii</i> <i>Brachyscome ciliaris</i> <i>Brachyscome perpusilla</i> <i>Calotis hispidula</i> * <i>Centaurea melitensis</i> <i>Cephalipterum drummondii</i> <i>Chthonocephalus pseudevax</i> <i>Lawrencella rosea</i> <i>Leiocarpa semicalva</i> subsp. <i>semicalva</i> <i>Leucochrysum fitzibbonii</i> <i>Millotia myosotidifolia</i> <i>Olearia exiguifolia</i> <i>Olearia humilis</i> <i>Olearia muelleri</i> <i>Olearia pimeleoides</i> <i>Podolepis tepperi</i>



---

<b>Asteraceae cont.</b>	<i>Podotheca gnaphalioides</i> <i>Rhodanthe battii</i> <i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i> <i>Rhodanthe rubella</i> <i>Schoenia cassiniana</i> <i>Senecio glossanthus</i> <i>Senecio picridioides</i> * <i>Sonchus oleraceus</i> <i>Trichanthodium skirrophorum</i> <i>Vittadinia humerata</i> <i>Waitzia acuminata</i> var. <i>acuminata</i>
<b>Boraginaceae</b>	<i>Cynoglossum australe</i> <i>Halgania andromedifolia</i> <i>Halgania cyanea</i> var. Charleville (R.W. Purdie +111)
<b>Brassicaceae</b>	* <i>Carrichtera annua</i> <i>Menkea australis</i> <i>Phlegmatospermum drummondii</i> <i>Stenopetalum filifolium</i>
<b>Campanulaceae</b>	<i>Isotoma petraea</i> <i>Wahlenbergia</i> ? <i>gracilentata</i>
<b>Casuarinaceae</b>	<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> <i>Allocasuarina helmsii</i>
<b>Chenopodiaceae</b>	<i>Atriplex nummularia</i> <i>Atriplex stipitata</i> <i>Atriplex vesicaria</i> <i>Chenopodium curvispicatum</i> <i>Enchylaena lanata</i> <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> ? <i>Enchylaena</i> x <i>Maireana georgei</i> <i>Eriochiton sclerolaenoides</i> <i>Maireana carnosa</i> <i>Maireana georgei</i> <i>Maireana thesioides</i> <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> <i>Maireana trichoptera</i> <i>Maireana triptera</i> <i>Rhagodia drummondii</i> <i>Sclerolaena diacantha</i> <i>Sclerolaena fusiformis</i> <i>Sclerolaena patentiscuspis</i>

---

---

<b>Crassulaceae</b>	<i>Crassula ?tetramera</i>
<b>Cucurbitaceae</b>	* <i>Cucumis myriocarpus</i>
<b>Cupressaceae</b>	<i>Callitris columellaris</i>
<b>Cyperaceae</b>	<i>Lepidosperma ferricola</i> (P3) <i>Lepidosperma</i> aff. <i>ferriculmen</i>
<b>Dilleniaceae</b>	<i>Hibbertia eatoniae</i> <i>Hibbertia exasperata</i> <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)
<b>Droseraceae</b>	<i>Drosera ?macrantha</i>
<b>Elaeocarpaceae</b>	<i>Tetratheca erubescens</i> (R)
<b>Ericaceae</b>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3)
<b>Euphorbiaceae</b>	<i>Beyeria rostellata</i> (P1) <i>Euphorbia philochalix</i>
<b>Fabaceae</b>	<i>Acacia</i> aff. <i>acuaria</i> <i>Acacia andrewsii</i> <i>Acacia caesaneura</i> (narrow phyllodes variant) <i>Acacia colletioides</i> <i>Acacia coolgardiensis</i> <i>Acacia dissona</i> var. <i>indoloria</i> (P3) <i>Acacia enervia</i> subsp. <i>explicata</i> <i>Acacia erinacea</i> <i>Acacia hemiteles</i> <i>Acacia incurvaneura</i> <i>Acacia</i> aff. <i>intricata</i> <i>Acacia jennerae</i> <i>Acacia merrallii</i> <i>Acacia nyssophylla</i> <i>Acacia prainii</i> <i>Acacia sibina</i> <i>Acacia</i> sp. Mt Jackson (B. Ryan 176) <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Acacia steedmanii</i> subsp. <i>steedmanii</i> <i>Acacia tetragonophylla</i> <i>Daviesia scoparia</i> <i>Dillwynia</i> sp. Coolgardie (V.E. Sands 637.3. 1) . <i>Lotus cruentus</i> * <i>Medicago minima</i>

---



---

<b>Fabaceae cont.</b>	<i>Mirbelia microphylla</i> <i>Mirbelia ramulosa</i> <i>Senna artemisioides</i> subsp. <i>filifolia</i> <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> <i>Senna cardiosperma</i> <i>Senna pleurocarpa</i> var. <i>angustifolia</i> <i>Senna stowardii</i> <i>Swainsona canescens</i> <i>Swainsona oliveri</i> <i>Templetonia ceracea</i>
<b>Geraniaceae</b>	* <i>Erodium aureum</i> * <i>Erodium cicutarium</i> <i>Erodium cygnorum</i>
<b>Goodeniaceae</b>	<i>Dampiera lavandulacea</i> <i>Goodenia berardiana</i> <i>Goodenia havilandii</i> <i>Scaevola spinescens</i> <i>Velleia hispida</i>
<b>Haloragaceae</b>	<i>Glischrocaryon flavescens</i> <i>Haloragis ?trigonocarpa</i>
<b>Hemerocallidaceae</b>	<i>Dianella revoluta</i> var. <i>divaricata</i>
<b>Lamiaceae</b>	<i>Hemigenia brachyphylla</i> <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> <i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3) <i>Teucrium sessiliflorum</i> <i>Westringia cephalantha</i> <i>Westringia rigida</i>
<b>Loganiaceae</b>	<i>Phyllangium sulcatum</i>
<b>Loranthaceae</b>	<i>Amyema benthamii</i> <i>Amyema miquelii</i> <i>Lysiana casuarinae</i>
<b>Malvaceae</b>	<i>Abutilon cryptopetalum</i> <i>Alyogyne hakeifolia</i> <i>Androcalva luteiflora</i> <i>Brachychiton gregorii</i> <i>Commersonia magniflora</i> subsp. <i>oblongifolia</i> <i>Lawrencia diffusa</i>

---

---

<b>Malvaceae cont.</b>	<i>Radyera farragei</i> <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260) <i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<b>Myrtaceae</b>	<i>Eucalyptus capillosa</i> <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> <i>Eucalyptus corrugata</i> <i>Eucalyptus ewartiana</i> <i>Eucalyptus longicornis</i> <i>Eucalyptus longissima</i> <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> <i>Eucalyptus petraea</i> <i>Eucalyptus ravida</i> <i>Eucalyptus salmonophloia</i> <i>Eucalyptus salubris</i> <i>Eucalyptus transcontinentalis</i> <i>Eucalyptus vittata</i> <i>Eucalyptus yilgarnensis</i> <i>Malleostemon tuberculatus</i> <i>Melaleuca hamata</i> <i>Melaleuca leiocarpa</i> <i>Melaleuca radula</i> <i>Rinzia carnosia</i>
<b>Orchidaceae</b>	<i>Caladenia</i> sp. <i>Cyanicula amplexans</i> <i>Pterostylis</i> sp. inland (A.C. Beauglehole 11880) <i>Thelymitra petrophila</i>
<b>Oxalidaceae</b>	<i>Oxalis exilis</i>
<b>Pittosporaceae</b>	<i>Cheiranthra filifolia</i> <i>Pittosporum angustifolium</i>
<b>Plantaginaceae</b>	<i>Plantago debilis</i>
<b>Poaceae</b>	<i>Aristida contorta</i> <i>Austrostipa blackii</i> (P3) <i>Austrostipa elegantissima</i> <i>Austrostipa nitida</i> <i>Austrostipa platychaeta</i> <i>Austrostipa scabra</i> subsp. <i>scabra</i> <i>Austrostipa variabilis</i> <i>Eragrostis dielsii</i> <i>Monachather paradoxus</i> * <i>Pentameris airoides</i> subsp. <i>airoides</i> <i>Rytidosperma caespitosum</i>

---



---

<b>Poaceae cont.</b>	* <i>Vulpia myuros</i> forma <i>myuros</i>
<b>Polygalaceae</b>	<i>Comesperma integerrimum</i> <i>Comesperma volubile</i>
<b>Polygonaceae</b>	* <i>Acetosa vesicaria</i>
<b>Portulacaceae</b>	<i>Calandrinia calyptata</i> <i>Calandrinia eremaea</i>
<b>Primulaceae</b>	* <i>Lysimachia arvensis</i>
<b>Proteaceae</b>	<i>Banksia arborea</i> (P4) <i>Grevillea acuaria</i> <i>Grevillea zygoloba</i> <i>Hakea recurva</i> subsp. <i>recurva</i>
<b>Pteridaceae</b>	<i>Cheilanthes adiantoides</i> <i>Cheilanthes lasiophylla</i> <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>
<b>Rhamnaceae</b>	<i>Granitites intangendus</i> <i>Stenanthemum newbeyi</i> (P3) <i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
<b>Rutaceae</b>	<i>Phebalium laevigatum</i> <i>Phebalium lepidotum</i> <i>Phebalium tuberosum</i> <i>Philotheca brucei</i> subsp. <i>brucei</i>
<b>Santalaceae</b>	<i>Exocarpos aphyllus</i> <i>Santalum acuminatum</i> <i>Santalum spicatum</i>
<b>Sapindaceae</b>	<i>Dodonaea caespitosa</i> <i>Dodonaea inaequifolia</i> <i>Dodonaea microzyga</i> var. <i>acrolobata</i> <i>Dodonaea ?pinifolia</i> <i>Dodonaea stenozyga</i> <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
<b>Scrophulariaceae</b>	<i>Eremophila alternifolia</i> <i>Eremophila caperata</i> <i>Eremophila clarkei</i> <i>Eremophila decipiens</i> subsp. <i>decipiens</i> <i>Eremophila drummondii</i> <i>Eremophila granitica</i>

---

---

<b>Scrophulariaceae cont.</b>	<i>Eremophila interstans</i> subsp. <i>interstans</i> <i>Eremophila ionantha</i> <i>Eremophila metallicorum</i> <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> <i>Eremophila saligna</i> <i>Eremophila scoparia</i> <i>Eremophila serrulata</i>
<b>Solanaceae</b>	<i>Lycium australe</i> <i>Nicotiana rotundifolia</i> <i>Solanum cleistogamum</i> <i>Solanum hoplopetalum</i> <i>Solanum lasiophyllum</i> <i>Solanum nummularium</i>
<b>Stylidiaceae</b>	<i>Stylidium dielsianum</i>
<b>Thymelaeaceae</b>	<i>Pimelea spiculigera</i> var. <i>thesioides</i>
<b>Urticaceae</b>	<i>Parietaria cardiostegia</i>
<b>Violaceae</b>	<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>
<b>Zygophyllaceae</b>	<i>Zygophyllum apiculatum</i> <i>Zygophyllum eremaeum</i> <i>Zygophyllum ovatum</i>

---



## **Appendix K: Raw Data Recorded within Quadrats, 2013**

Site Name: KOOL-001  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 742424E 6587717N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: VG - Very Good  
 Disturbance: Dust and silt runoff due to nearby mining activities (other)  
 Fire: > 10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Acacia enervia* subsp. *explicata*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 2: *Atriplex nummularia*, *Eremophila ionantha*  
 Lower Stratum 1: *Maireana georgei*, *Rhagodia drummondii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia enervia</i> subsp. <i>explicata</i>	3	3
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	2
<i>Atriplex nummularia</i>	2	5
<i>Atriplex stipitata</i>	0.5	0.3
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.5	0.2
<i>Eremophila ionantha</i>	1.5	3
<i>Eremophila scoparia</i>	0.5	0.3
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus salubris</i>	12	30
<i>Maireana georgei</i>	0.4	2
<i>Maireana trichoptera</i>	0.3	0.5
<i>Maireana triptera</i>	0.4	0.1
<i>Olearia muelleri</i>	0.4	0.5
<i>Ptilotus divaricatus</i>	0.4	0.2



<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.5
<i>Rhagodia drummondii</i>	0.5	1
<i>Rytidosperma caespitosum</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-002  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 742948E 6586838N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 10 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*, *Eremophila ionantha*  
 Mid Stratum 1: *Eremophila scoparia*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Atriplex stipitata*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia colletioides</i>	2.5	0.3
<i>Acacia tetragonophylla</i>	0.6	0.2
<i>Atriplex stipitata</i>	0.4	1
<i>Atriplex vesicaria</i>	0.5	1
<i>Austrostipa elegantissima</i>	1	0.4
<i>Eremophila interstans</i> subsp. <i>interstans</i>	5	3
<i>Eremophila ionantha</i>	2	7
<i>Eremophila scoparia</i>	1	2
<i>Eucalyptus longicornis</i>	18	25
<i>Exocarpos aphyllus</i>	1.5	0.5
<i>Lysiana casuarinae</i>		
<i>Maireana georgei</i>	0.4	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.2
<i>Olearia pimeleoides</i>	0.8	0.2
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.3



<i>Scaevola spinescens</i>	1.5	0.3
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	1
<i>Solanum nummularium</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-004  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 743393E 6586737N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla*,  
*Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 2: *Senna artemisioides* subsp. *filifolia*, *Senna cardiosperma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2.8	5
<i>Acacia tetragonophylla</i>	2.3	1.5
<i>Atriplex vesicaria</i>	0.5	0.1
<i>Austrostipa elegantissima</i>	0.4	0.2
<i>Eremophila drummondii</i>	0.6	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.3	2.5
<i>Eucalyptus salubris</i>	10	20
<i>Exocarpos aphyllus</i>	1.6	0.5
<i>Maireana georgei</i>	0.3	0.2
<i>Maireana thesioides</i>	0.5	0.2
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Olearia pimeleoides</i>	0.6	0.4
<i>Pittosporum angustifolium</i>	1	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.3
<i>Rhagodia drummondii</i>	0.3	0.1



<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2	2
<i>Senna cardiosperma</i>	1.2	1

**PHOTO**

Site Name: KOOL-006  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 743838E 6586594N  
 Community: 6  
 Landform Type: Low rise in undulating plain (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Sandy clay loam (other)  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Upper Stratum 2: *Eucalyptus corrugata*, *Eucalyptus yilgarnensis*  
 Mid Stratum 1: *Dodonaea stenozyga*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	0.3
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Dodonaea stenozyga</i>	1.3	0.5
<i>Eremophila alternifolia</i>		
<i>Eremophila interstans</i> subsp. <i>interstans</i>	6	0.8
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	9	20
<i>Eucalyptus vittata</i>	8	1.5
<i>Eucalyptus yilgarnensis</i>	5	1.5
<i>Exocarpos aphyllus</i>	1.7	0.4
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.3



<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>		
<i>Santalum spicatum</i>	1.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.2	0.1
<i>Westringia rigida</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-007  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 744444E 6586717N  
 Community: 8  
 Landform Type: Low Rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: Rabbit diggings (other)  
 Fire: > 10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla*  
 Mid Stratum 1: *Eremophila metallicorum*, *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	20
<i>Acacia tetragonophylla</i>	2.5	1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Eremophila metallicorum</i>	2	5
<i>Eucalyptus longissima</i>	10	10
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Scaevola spinescens</i>	1.8	2.5
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.8	0.3

**PHOTO**





Site Name: KOOL-012  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 741802E 6586482N  
 Community: 6  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Acacia tetragonophylla*, *Eremophila metallicorum*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia tetragonophylla</i>	1.8	1
<i>Actinobole uliginosum</i>		
<i>Alyxia buxifolia</i>	2.5	1
<i>Amyema miquelii</i>		0.2
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.4	0.1
<i>Calotis hispidula</i>	0.1	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	2	0.1
<i>Eremophila metallicorum</i>	2	1
<i>Eucalyptus corrugata</i>	12	30
<i>Exocarpos aphyllus</i>	2	1
<i>Haloragis ?trigonocarpa</i>		
<i>Lomandra effusa</i>		
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia muelleri</i>	0.5	5



<i>Olearia pimeleoides</i>	0.5	0.1
<i>Pittosporum angustifolium</i>	1.8	0.2
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.5
<i>Rhagodia drummondii</i>	0.5	0.2
<i>Scaevola spinescens</i>	1	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.6
<i>Senna cardiosperma</i>	0.3	0.1
<i>Westringia cephalantha</i>	1	0.5

**PHOTO**

Site Name: KOOL-013  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 741623E 6587284N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Disturbance: Soil runoff (other)  
 Fire: > 10 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Acacia enervia* subsp. *explicata*  
 Mid Stratum 1: *Acacia merrallii*, *Dodonaea viscosa* subsp. *angustissima*, *Eremophila ionantha*, *Exocarpos aphyllus*, *Senna artemisioides* subsp. *filifolia*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia enervia</i> subsp. <i>explicata</i>	5	15
<i>Acacia merrallii</i>	1.5	4
<i>Alyxia buxifolia</i>	0.5	0.2
<i>Atriplex vesicaria</i>	0.5	0.1
<i>Austrostipa elegantissima</i>	0.5	0.5
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	1.5	2
<i>Eremophila ionantha</i>	1.8	1
<i>Eremophila scoparia</i>	0.4	0.1
<i>Eucalyptus corrugata</i>	12	20
<i>Exocarpos aphyllus</i>	2	4
<i>Maireana trichoptera</i>	0.3	0.1
<i>Olearia muelleri</i>	0.3	0.5
<i>Olearia pimeleoides</i>	1	1
<i>Pittosporum angustifolium</i>	1.8	0.1
<i>Rhagodia drummondii</i>	0.4	0.2
<i>Scaevola spinescens</i>	0.4	0.1



<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2	5
<i>Solanum nummularium</i>	0.3	0.2
<i>Westringia rigida</i>	0.5	0.5
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-015  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 742079E 6586197N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: VG - Very Good  
 Disturbance: Vehicle tracks, dust (other)  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla*, *Grevillea zygoloba*

Mid Stratum 1: *Eremophila clarkei*, *Philothea brucei* subsp. *brucei*, *Scaevola spinescens*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	8
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	8
<i>Acacia tetragonophylla</i>	4	8
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Dodonaea inaequifolia</i>	0.3	0.2
<i>Eremophila clarkei</i>	2.5	3
<i>Grevillea zygoloba</i>	3	20
<i>Olearia pimeleoides</i>	1	1
<i>Philothea brucei</i> subsp. <i>brucei</i>	2.5	5
<i>Rhagodia drummondii</i>	1.5	0.5
<i>Santalum spicatum</i>	4	2
<i>Scaevola spinescens</i>	2	2
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Solanum nummularium</i>	0.1	0.1



**PHOTO**



Site Name: KOOL-016  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742050E 6585763N  
 Community: 1  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SSW  
 Soil Type: Sandy clay (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Old vehicle tracks adjacent (other)  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Acacia erinacea*, *Eremophila interstans* subsp. *interstans*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.4	0.5
<i>Atriplex nummularia</i>	1.2	0.2
<i>Atriplex stipitata</i>	0.4	0.1
<i>Atriplex vesicaria</i>	0.5	2
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Calandrinia eremaea</i>	0.1	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	1.1	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.7	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1.9	0.4
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>		
<i>Eucalyptus salubris</i>	12	6



<i>Exocarpos aphyllus</i>		
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.3
<i>Maireana triptera</i>	0.4	0.1
<i>Olearia muelleri</i>	0.5	0.2
<i>Pittosporum angustifolium</i>	1.1	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.2	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Santalum spicatum</i>	2.2	0.2
<i>Scaevola spinescens</i>	0.7	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.3	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-017  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742072E 6585606N  
 Community: 10  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sandy clay (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: Vehicle tracks (other)  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Dodonaea inaequifolia*  
 Mid Stratum 1: *Scaevola spinescens*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	14
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	0.8
<i>Acacia tetragonophylla</i>	2.5	2
<i>Aristida contorta</i>	0.1	0.1
<i>Atriplex nummularia</i>		
<i>Austrostipa elegantissima</i>	0.7	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Brachychiton gregorii</i>	3.5	0.2
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.5	3
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila alternifolia</i>	1.5	0.2
<i>Eremophila granitica</i>	1.4	0.5



<i>Eremophila serrulata</i>	1.2	0.2
<i>Eucalyptus corrugata</i>		
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.9	0.6
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1
<i>Rhagodia drummondii</i>	1	0.1
<i>Scaevola spinescens</i>	1.6	4
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.4	0.1

**PHOTO**

Site Name: KOOL-018  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742715E 6585797N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: SW  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia tetragonophylla*, *Dodonaea inaequifolia*  
 Mid Stratum 1: *Eremophila serrulata*, *Philothea brucei* subsp. *brucei*, *Scaevola spinescens*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*, *Rhagodia drummondii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	0.5
<i>Acacia tetragonophylla</i>	3	10
<i>Alyxia buxifolia</i>	1.7	0.2
<i>Austrostipa nitida</i>	0.1	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Brachychiton gregorii</i>	1.2	0.1
<i>Calandrinia eremaea</i>	0.1	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Crassula ?tetramera</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	10
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.2
<i>Eremophila alternifolia</i>	1.6	0.4
<i>Eremophila serrulata</i>	1.4	1



<i>Erodium cygnorum</i>	0.1	0.1
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia pimeleoides</i>	0.8	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	1
<i>Pittosporum angustifolium</i>	2	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	1
<i>Rhagodia drummondii</i>	0.6	1
<i>Santalum spicatum</i>	2.5	0.3
<i>Scaevola spinescens</i>	1.5	0.5
<i>Senecio glossanthus</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2.2	0.4
<i>Senna charlesiana</i>	1.8	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum cleistogamum</i>	0.2	0.1
<i>Trachymene ornata</i>	0.1	0.1
* <i>Vulpia muralis</i>	0.1	0.1
<i>Xerolirion divaricata</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-019  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742755E 6585837N  
 Community: 10  
 Landform Type: Upper slope of BIF ridge (other)  
 Slope Class: Precipitous (60 degrees)  
 Aspect: SSW  
 Soil Type: Loam  
 Soil Colour: Brown  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Dodonaea inaequifolia*, *Melaleuca leiocarpa*  
 Mid Stratum 1: *Eremophila serrulata*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Enchylaena tomentosa* var. *tomentosa*, *Rhagodia drummondii*, *Xerolirion divaricata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia tetragonophylla</i>	1.2	0.4
<i>Arthropodium curvipes</i>	0.2	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Calandrinia eremaea</i>	0.1	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Crassula ?tetramera</i>	0.1	0.1
<i>Daucus glochidiatus</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	10
* <i>Ehrharta longiflora</i>	0.2	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.5
<i>Eremophila clarkei</i>	1.5	0.1
<i>Eremophila serrulata</i>	1.2	1



<i>Erodium cygnorum</i>	0.1	0.1
<i>Hibbertia exasperata</i>	0.6	0.2
<i>Hydrocotyle rugulosa</i>	0.1	0.1
* <i>Hypochaeris glabra</i>	0.1	0.1
<i>Isotoma petraea</i>	0.2	0.1
<i>Maireana georgei</i>	0.2	0.1
<i>Melaleuca leiocarpa</i>	2.2	15
<i>Millotia myosotidifolia</i>	0.1	0.1
* <i>Monoculus monstrosus</i>	0.8	0.1
<i>Olearia humilis</i>	0.9	0.2
<i>Olearia pimeleoides</i>	0.8	0.1
<i>Oxalis exilis</i>	0.1	0.1
<i>Parietaria cardiostegia</i>	0.1	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.2	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.5	1
<i>Pittosporum angustifolium</i>	3	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Prostanthera grylloana</i>	0.7	0.3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.4
<i>Rhagodia drummondii</i>	0.5	1
<i>Rhodanthe battii</i>	0.2	0.1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Rytidosperma caespitosum</i>	0.3	0.1
<i>Scaevola spinescens</i>	0.6	0.1
<i>Senecio glossanthus</i>	0.1	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
* <i>Sonchus oleraceus</i>	0.2	0.1
<i>Thysanotus manglesianus</i>	0	0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Xerolirion divaricata</i>	0.8	1

**PHOTO**





Site Name: KOOL-020  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 742668E 6585473N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: WSW  
 Soil Type: Clay Loam  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia caesaneura* (narrow phyllodes variant), *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 2: *Eremophila granitica*, *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow phyllodes variant)	6	1
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	2
<i>Acacia tetragonophylla</i>	1.8	0.1
<i>Atriplex nummularia</i>	1.2	0.5
<i>Austrostipa nitida</i>	0.3	0.1
<i>Dodonaea inaequifolia</i>	1	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila granitica</i>	1.8	3
<i>Eucalyptus corrugata</i>	9	6
<i>Eucalyptus longissima</i>	7	5
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia humilis</i>	0.7	0.1

<i>Olearia pimeleoides</i>	0.7	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	0.4
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.2
<i>Rhagodia drummondii</i>	1	0.1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Scaevola spinescens</i>	1.3	2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum lasiophyllum</i>	0.3	0.1

**PHOTO**



Site Name:	KOOL-021
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	19/09/2013
GPS Location:	GDA94 (Zone 50) 742984E 6585380N
Community:	10
Landform Type:	Mid Slope
Slope Class:	Steep (23 degrees)
Aspect:	SW
Soil Type:	Sandy clay loam (other)
Soil Colour:	Brown (other)
Rock Outcrop:	No bedrock exposed
CF Abundance:	50-90%
CF Sizes:	2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
CF Types:	Ironstone
Vegetation Condition:	E - Excellent
Fire:	>5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Eremophila oppositifolia* subsp. *angustifolia*

Mid Stratum 1: *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	10
<i>Acacia tetragonophylla</i>	3	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	3	2
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila granitica</i>	1.8	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	2
<i>Eremophila serrulata</i>		
<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.5	0.3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	1.2	0.2
<i>Rhyncharrhena linearis</i>	0	0.1

<i>Santalum spicatum</i>	3.5	0.3
<i>Scaevola spinescens</i>	1.5	3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2.2	0.3
<i>Solanum cleistogamum</i>	0.2	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Zygophyllum eremaeum</i>	0.3	0.1

**PHOTO**



Site Name: KOOL-022  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 743200E 6585278N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Precipitous (60 degrees)  
 Aspect: SW  
 Soil Type: Loam  
 Soil Colour: Brown  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia tetragonophylla*, *Banksia arborea*, *Melaleuca leiocarpa*  
 Mid Stratum 1: *Dodonaea inaequifolia*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)		
<i>Acacia tetragonophylla</i>	3	2
* <i>Acetosa vesicaria</i>	0.3	0.1
<i>Anthosachne scabra</i>	0.4	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Banksia arborea</i> (P4)	5	3.5
<i>Beyeria lechenaultii</i>	1	0.4
* <i>Brassica tournefortii</i>	0.6	0.1
* <i>Bromus rubens</i>	0.2	0.1
<i>Calandrinia eremaea</i>	0.1	0.2
* <i>Carrichtera annua</i>	0.1	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1

<i>Crassula ?tetramera</i>	0.1	0.2
* <i>Cuscuta planiflora</i>	0	0.1
<i>Dodonaea inaequifolia</i>	1.6	0.5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila clarkei</i>		
<i>Eremophila serrulata</i>	0.5	0.1
* <i>Erodium cicutarium</i>	0.1	0.1
<i>Erodium cygnorum</i>	0.1	0.1
* <i>Galium aparine</i>	0.1	0.1
<i>Isotoma petraea</i>	0.2	0.3
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>	0.3	0.2
* <i>Medicago minima</i>	0.1	0.1
<i>Melaleuca leiocarpa</i>	4	4
* <i>Monoculus monstrosus</i>	0.2	0.1
<i>Olearia pimeleoides</i>	0.8	0.1
<i>Oxalis exilis</i>	0.1	0.1
<i>Parietaria cardiostegia</i>	0.1	0.4
<i>Pittosporum angustifolium</i>	3	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.6	3
<i>Rhagodia drummondii</i>	0.4	0.5
<i>Rhodanthe battii</i>	0.2	0.3
<i>Santalum spicatum</i>	2	0.3
<i>Scaevola spinescens</i>	0.6	0.1
<i>Senecio glossanthus</i>	0.2	0.1
* <i>Silene nocturna</i>	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.2
<i>Solanum lasiophyllum</i>	0.3	0.1
* <i>Solanum nigrum</i>	0.2	0.1
* <i>Sonchus oleraceus</i>	0.3	0.1
<i>Xerolirion divaricata</i>	0.3	0.4

**PHOTO**





Site Name: KOOL-023  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 742174E 6584875N  
 Community: 12  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Melaleuca hamata*  
 Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Prostanthera semiteres* subsp. *semiteres*  
 Lower Stratum 1: *Mirbelia microphylla*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3.5	30
<i>Alyxia buxifolia</i>	2	0.1
? <i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1	0.1
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Brachychiton gregorii</i>	1.8	0.1
<i>Brunonia australis</i>	0.1	0.1
<i>Cheilanthes</i> ? <i>adiantoides</i>	0.1	0.1
<i>Drosera</i> ? <i>macrantha</i>		0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.4	1
<i>Melaleuca hamata</i>	4	4



<i>Mirbelia microphylla</i>	0.9	4
<i>Monachather paradoxus</i>	0.1	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.3	2
<i>Rhyncharrhena linearis</i>		0.1
<i>Rinzia carnosa</i>	0.6	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum nummularium</i>	0.1	0.1
<i>Velleia hispida</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-024  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 742375E 6584945N  
 Community: 1  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Pale Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)		
<i>Acacia tetragonophylla</i>		
<i>Atriplex nummularia</i>	1.5	2
<i>Atriplex stipitata</i>	0.5	0.1
<i>Atriplex vesicaria</i>	0.5	1
<i>Austrostipa platychaeta</i>	0.6	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Chenopodium curvispicatum</i>	0.2	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>		
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	5	2
<i>Eremophila scoparia</i>	1	0.2
<i>Eucalyptus corrugata</i>	9	35



<i>Exocarpos aphyllus</i>	1.5	0.2
<i>Maireana georgei</i>	0.4	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.1
<i>Zygophyllum eremaeum</i>	0.5	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-026  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 744121E 6586496N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	3
<i>Atriplex stipitata</i>	0.4	0.2
<i>Atriplex vesicaria</i>	0.5	7
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1	0.1
<i>Eremophila scoparia</i>	1.5	3
<i>Eucalyptus longicornis</i>	18	15
<i>Eucalyptus vittata</i>	8	2
<i>Exocarpos aphyllus</i>	2	4
<i>Olearia muelleri</i>	0.3	0.3
<i>Pittosporum angustifolium</i>	2.5	2
<i>Scaevola spinescens</i>	1.3	0.5
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.5

**PHOTO**





Site Name: KOOL-027  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 744096E 6586284N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila ionantha*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Eremophila scoparia*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	2	6
<i>Atriplex vesicaria</i>	0.5	0.5
<i>Eremophila ionantha</i>	2	7
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.2
<i>Eremophila scoparia</i>	0.8	2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	8	5
<i>Eucalyptus salmonophloia</i>	20	25
<i>Exocarpos aphyllus</i>	2	2
<i>Maireana trichoptera</i>	0.2	0.1
<i>Maireana triptera</i>	0.3	0.1
<i>Olearia muelleri</i>	0.5	0.1
<i>Rhagodia drummondii</i>	0.8	0.2
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-028  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 744340E 6586238N  
 Community: 8  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy clay (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla*,  
*Eremophila alternifolia*

Mid Stratum 1: *Prostanthera semiteres* subsp. *semiteres*, *Scaevola spinescens*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	20
<i>Acacia tetragonophylla</i>	3.5	8
<i>Dodonaea inaequifolia</i>	1	0.1
<i>Eremophila alternifolia</i>	2.5	5
<i>Exocarpos aphyllus</i>	1	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.2	0.5
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	1.8	0.1
<i>Scaevola spinescens</i>	1.5	0.5

#### **PHOTO**





Site Name: KOOL-029  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 744409E 6586186N  
 Community: 3  
 Landform Type: Low rise in undulating plain (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Upper Stratum 2: *Eucalyptus celastroides* subsp. *celastroides*  
 Mid Stratum 1: *Atriplex nummularia*, *Halgania andromedifolia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.2	0.2
<i>Atriplex vesicaria</i>	0.9	0.4
<i>Eremophila scoparia</i>	1.8	0.2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	5
<i>Eucalyptus vittata</i>	11	4
<i>Halgania andromedifolia</i>	1.3	0.3
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1

**PHOTO**





Site Name: KOOL-031  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 744471E 6586018N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NW  
 Soil Type: Sandy clay (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*, *Eremophila oppositifolia* subsp. *angustifolia*, *Eremophila scoparia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	0.2
<i>Atriplex nummularia</i>	1.2	0.8
<i>Atriplex vesicaria</i>	0.4	0.2
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.8	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	0.2
<i>Eremophila scoparia</i>	2.1	0.8
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus vittata</i>	13	11
<i>Eucalyptus yilgarnensis</i>		
<i>Exocarpos aphyllus</i>	2	0.2
<i>Maireana georgei</i>	0.2	0.1



<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Ptilotus holosericeus</i>	0	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Scaevola spinescens</i>	1.2	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-032  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 743317E 6586227N  
 Community: 6  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*  
 Lower Stratum 1: *Acacia andrewsii*, *Acacia erinacea*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.2	2
<i>Acacia erinacea</i>	1.2	10
<i>Alyxia buxifolia</i>	0.2	0.1
<i>Amyema miquelii</i>	0	0.1
<i>Austrostipa elegantissima</i>	0.8	0.2
<i>Dodonaea inaequifolia</i>	2	0.5
<i>Dodonaea stenozyga</i>	1.8	3
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3	2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	8	25
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Scaevola spinescens</i>	0.4	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	1
<i>Zygophyllum ovatum</i>	0.1	0.1



**PHOTO**



Site Name: KOOL-033  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 743393E 6585760N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Dust (other)  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Grevillea zygoloba*  
 Lower Stratum 1: *Eremophila granitica*, *Phebalium canaliculatum*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*  
 Lower Stratum 2: *Olearia humilis*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	2
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4.5	2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	1
<i>Brachychiton gregorii</i>	2	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dodonaea inaequifolia</i>	1	0.1
<i>Eremophila granitica</i>	1.7	1
<i>Eucalyptus longissima</i>	8	1
<i>Grevillea zygoloba</i>	3	4
<i>Hibbertia exasperata</i>	1	0.3



<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.1
<i>Olearia humilis</i>	0.8	1
<i>Olearia pimeleoides</i>	1	0.1
<i>Phebalium canaliculatum</i>	1.9	2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	0.3
<i>Prostanthera grylloana</i>	0.9	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.6	0.1
<i>Scaevola spinescens</i>	1.6	0.5
<i>Westringia cephalantha</i>	1	0.1

**PHOTO**

Site Name: KOOL-037  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 744109E 6584596N  
 Community: 5  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus vittata*Mid Stratum 1: *Acacia erinacea, Atriplex nummularia***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.2	2
<i>Acacia aff.intricata</i>	1.2	0.2
<i>Acacia tetragonophylla</i>	0.3	0.1
<i>Atriplex nummularia</i>	1.6	2
<i>Eremophila caperata</i>	3	0.3
<i>Eremophila ionantha</i>	1.5	0.3
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	0.6
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	0.8
<i>Eucalyptus vittata</i>	8	20
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Maireana triptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	0.3
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.1	0.2



<i>Sclerolaena fusiformis</i>	0.1	0.2
-------------------------------	-----	-----

**PHOTO**



Site Name: KOOL-038  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 21/09/2013  
 GPS Location: GDA94 (Zone 50) 743700E 6584616N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: S  
 Soil Type: Sandy clay (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Eremophila granitica*, *Grevillea zygaloba*  
 Lower Stratum 1: *Hibbertia exasperata*, *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	3
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2.5	0.3
<i>Acacia tetragonophylla</i>	1.8	0.2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2	0.5
<i>Eremophila granitica</i>	1.8	2.5
<i>Eucalyptus longissima</i>	9	4
<i>Exocarpos aphyllus</i>	1	0.1
<i>Grevillea zygaloba</i>	1.7	0.4
<i>Hibbertia exasperata</i>	1	4
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.6	0.1
<i>Olearia humilis</i>	0.8	0.5



<i>Olearia pimeleoides</i>	0.9	0.1
<i>Olearia stuartii</i>	0.5	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.2	0.2
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Scaevola spinescens</i>	1.3	0.2

**PHOTO**

Site Name:	KOOL-041
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	20/09/2013
GPS Location:	GDA94 (Zone 50) 743509E 6584889N
Community:	10
Landform Type:	Upper Slope
Slope Class:	Very Steep (37 degrees)
Aspect:	S
Soil Type:	Light Clay
Soil Colour:	Brown
Rock Outcrop:	Bif (other), >50% bedrock exposed
CF Abundance:	>90%
CF Sizes:	2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
CF Types:	BIF (other)
Vegetation Condition:	E - Excellent
Disturbance:	None
Fire:	> 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1:	<i>Dodonaea inaequifolia</i> , <i>Melaleuca leiocarpa</i>
Mid Stratum 1:	<i>Beyeria lechenaultii</i>
Lower Stratum 1:	<i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia drummondii</i> , <i>Xerolirion divaricata</i>

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia tetragonophylla</i>	2	0.4
<i>Austrostipa elegantissima</i>	0.4	0.2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Banksia arborea</i> (P4)	2.5	0.8
<i>Beyeria lechenaultii</i>	1.5	10
* <i>Brassica tournefortii</i>	0.3	0.1
<i>Calandrinia calyptrata</i>	0.1	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Crassula</i> ? <i>tetramera</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	5
<i>Enchylaena lanata</i>	0.1	0.1



<i>Eremophila serrulata</i>	1	0.2
* <i>Hypochaeris glabra</i>	0.1	0.1
<i>Isotoma petraea</i>	0.1	0.1
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>	0.4	0.6
<i>Lepidosperma ferricola</i> (P3)	0.3	0.1
<i>Melaleuca leiocarpa</i>	2.2	12
<i>Millotia myosotidifolia</i>	0.1	0.1
* <i>Monoculus monstrosus</i>	0.1	0.1
<i>Oxalis exilis</i>	0.1	0.1
<i>Parietaria cardiostegia</i>	0.1	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Pterostylis</i> sp. dainty brown (N. Gibson & M. Lyons 3690)	0.1	0.1
<i>Pterostylis</i> sp. inland (A.C. Beauglehole 11880)	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	1
<i>Rhagodia drummondii</i>	0.5	10
<i>Rhodanthe battii</i>	0.1	0.1
<i>Scaevola spinescens</i>	0.5	0.1
<i>Senecio glossanthus</i>	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
* <i>Sonchus oleraceus</i>	0.3	0.1
<i>Stenopetalum filifolium</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Xerolirion divaricata</i>	0.4	2

**PHOTO**





Site Name: KOOL-042  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 743478E 6584795N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: SW  
 Soil Type: Sandy clay loam (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Eremophila granitica*

Mid Stratum 1: *Eremophila serrulata*, *Philothea brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4.5	10
<i>Acacia tetragonophylla</i>	3	3
<i>Austrostipa nitida</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	1.6	0.5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.9	0.1
<i>Eremophila granitica</i>	2.2	0.3
<i>Eremophila serrulata</i>	1.6	1
<i>Olearia humilis</i>	0.4	0.1
<i>Olearia pimeleoides</i>	0.6	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.7	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Santalum spicatum</i>	3	1
<i>Scaevola spinescens</i>	0.9	0.5

---

<i>Solanum lasiophyllum</i>	0.5	0.1
-----------------------------	-----	-----

**PHOTO**





Site Name: KOOL-043  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 743386E 6585056N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Very Steep (37 degrees)  
 Aspect: W  
 Soil Type: Sandy clay loam (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Banksia arborea*, *Melaleuca leiocarpa*

Lower Stratum 1: *Hibbertia exasperata*, *Philotheca brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	3
<i>Acacia tetragonophylla</i>	2.3	0.3
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Banksia arborea</i> (P4)	5	3
<i>Beyeria lechenaultii</i>	1	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.7	0.1
<i>Dodonaea inaequifolia</i>	1.3	0.5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1	0.1
<i>Eremophila clarkei</i>	1.4	1
<i>Eremophila serrulata</i>	1	0.2
<i>Exocarpos aphyllus</i>	1	0.1
<i>Hibbertia exasperata</i>	1.2	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.7	0.1
<i>Melaleuca leiocarpa</i>	2.3	4

<i>Olearia humilis</i>	0.4	0.1
<i>Olearia pimeleoides</i>	0.8	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Prostanthera grylloana</i>	1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.1
<i>Scaevola spinescens</i>	0.5	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>	0	0.1
<i>Xerolirion divaricata</i>	0.5	1

**PHOTO**



Site Name: KOOL-044  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742935E 6584450N  
 Community: 12  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone (dominant), Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia caesaneura* (*narrow phyllodes* variant)  
 Mid Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 2: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philothea brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> ( <i>narrow phyllodes</i> variant)	5	10
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	35
<i>Cheiranthra filifolia</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Eremophila granitica</i>	1	0.2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	0.5
<i>Grevillea zygoloba</i>	1.5	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	5
<i>Mirbelia microphylla</i>	1.3	0.7
<i>Monachather paradoxus</i>	0.2	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.8	10
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.2	5
<i>Rhyncharrhena linearis</i>		0.1

<i>Rinzia carnosa</i>	0.7	0.3
<i>Thysanotus ?manglesianus</i>		0.1

**PHOTO**





Site Name: KOOL-045  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 743276E 6584233N  
 Community: 6  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Atriplex nummularia*, *Dodonaea stenozyga*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.7	0.2
<i>Atriplex nummularia</i>	1.6	1.5
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Dodonaea stenozyga</i>	1.2	2
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1.6	0.3
<i>Eucalyptus corrugata</i>	9	35
<i>Exocarpos aphyllus</i>	1.2	0.2
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.6	2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	2
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-046  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 21/09/2013  
 GPS Location: GDA94 (Zone 50) 744120E 6584070N  
 Community: 5  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone (dominant), Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Upper Stratum 2: *Eremophila caperata*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	0.2
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex stipitata</i>	0.3	0.1
<i>Eremophila caperata</i>	3	1.5
<i>Eucalyptus transcontinentalis</i>	10	1
<i>Eucalyptus vittata</i>	8	35
<i>Exocarpos aphyllus</i>	1	0.3
<i>Isoetopsis graminifolia</i>	0.1	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Maireana triptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	0.7
<i>Phlegmatospermum drummondii</i>	0.1	0.1
<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>	0.2	0.1

<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1
<i>Thysanotus speckii</i>	0.1	0.1

**PHOTO**



Site Name:	KOOL-047
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	03/09/2013
GPS Location:	GDA94 (Zone 50) 742333E 6584519N
Community:	1
Landform Type:	Simple Slope
Slope Class:	Gently Inclined (3 degrees)
Aspect:	SW
Soil Type:	Sandy Clay Loam (other)
Soil Colour:	Red Brown (other)
Rock Outcrop:	No bedrock exposed
CF Abundance:	50-90%
CF Sizes:	2-6mm, 6-20mm, 20-60mm
CF Types:	Ironstone, Quartz (other)
Vegetation Condition:	E - Excellent
Disturbance:	Rabbit faecal mounds and an old closed in warren (other)
Fire:	> 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1:	<i>Eucalyptus salubris</i>
Mid Stratum 1:	<i>Eremophila interstans</i> subsp. <i>interstans</i> , <i>Santalum acuminatum</i>
Lower Stratum 1:	<i>Acacia erinacea</i> , <i>Olearia muelleri</i>

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.9	0.4
<i>Atriplex nummularia</i>	1	0.2
<i>Atriplex vesicaria</i>	0.7	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.2	0.5
<i>Eremophila scoparia</i>	1.1	0.1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus salubris</i>	9	35
<i>Exocarpos aphyllus</i>	1	0.2
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1

<i>Maireana trichoptera</i>	0.2	0.2
<i>Olearia muelleri</i>	0.5	2
<i>Pittosporum angustifolium</i>	2.4	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Santalum acuminatum</i>	2.2	0.3
<i>Scaevola spinescens</i>	0.4	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.1
<i>Solanum nummularium</i>	0.2	0.1
<i>Vittadinia humerata</i>	0.1	0.1
<i>Zygophyllum eremaeum</i>	0.4	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-048  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745099E 6586334N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila oppositifolia* subsp. *angustifolia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.2	0.4
<i>Atriplex vesicaria</i>	0.5	1.5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.8	0.3
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	10
<i>Eucalyptus ravida</i>	5	1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Maireana triptera</i>	0.3	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.2	0.3
<i>Sclerolaena fusiformis</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-050  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745241E 6585550N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red / Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus vittata*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Acacia erinacea*, *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.5	3
<i>Atriplex nummularia</i>	1.7	5
<i>Atriplex vesicaria</i>	0.5	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1.5	0.3
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	3
<i>Eremophila scoparia</i>	1	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	5
<i>Eucalyptus vittata</i>	9	15
<i>Exocarpos aphyllus</i>	0.6	0.2
<i>Maireana georgei</i>	0.1	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.5	5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Santalum acuminatum</i>	2.2	1
<i>Scaevola spinescens</i>	1.2	0.2

<i>Sclerolaena diacantha</i>	0.2	0.2
<i>Thysanotus ?manglesianus</i>		0.1

**PHOTO**





Site Name: KOOL-051  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745373E 6585685N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red / Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1.6	0.3
<i>Atriplex nummularia</i>	1.7	3
<i>Atriplex vesicaria</i>	0.6	8
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila scoparia</i>	1.6	0.6
<i>Eucalyptus salmonophloia</i>	14	12
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.6
<i>Olearia muelleri</i>	0.3	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.2	0.4

#### **PHOTO**





Site Name: KOOL-052  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745034E 6585475N  
 Community: 9  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: BIF, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Dodonaea inaequifolia*  
 Mid Stratum 1: *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	12
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	12
<i>Acacia tetragonophylla</i>	2.5	5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	6
<i>Eremophila granitica</i>	1.5	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	1
<i>Eucalyptus corrugata</i>	8	2
<i>Grevillea zygaloba</i>	3	4
<i>Hibbertia exasperata</i>	0.5	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.2
<i>Olearia pimeleoides</i>	1.5	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	0.2

<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.1
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>	2.5	1.5
<i>Scaevola spinescens</i>	1.6	3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.8	1
<i>Thysanotus ?manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-053  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745057E 6585225N  
 Community: 9  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	1.8	0.5
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	20
<i>Acacia tetragonophylla</i>	1.8	0.5
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Comesperma integerrimum</i>		
<i>Dodonaea inaequifolia</i>	1.3	1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.3	0.4
<i>Eremophila granitica</i>	1.5	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	1.2
<i>Eucalyptus corrugata</i>	6	5
<i>Grevillea zygoloba</i>	0.6	0.3
<i>Olearia pimeleoides</i>	0.5	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Scaevola spinescens</i>	1.8	5

**PHOTO**





Site Name: KOOL-054  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745007E 6584701N  
 Community: 11  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	3	20
<i>Brachychiton gregorii</i>	3	0.4
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.8	0.2
<i>Eremophila granitica</i>	1.8	1
<i>Eucalyptus longissima</i>	5.5	2
<i>Grevillea zygoloba</i>	2.5	1
<i>Hibbertia exasperata</i>	0.5	0.2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	5
<i>Olearia humilis</i>	0.6	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.7	0.3
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.2	10
<i>Rinzia carnosa</i>	1	0.4

<i>Scaevola spinescens</i>	1.6	0.7
----------------------------	-----	-----

**PHOTO**





Site Name: KOOL-055  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 744801E 6584600N  
 Community: 11  
 Landform Type: Ridge  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Brachychiton gregorii*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Grevillea zygodoba*, *Hibbertia exasperata*, *Philothea brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	15
<i>Acacia tetragonophylla</i>	2.5	0.8
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	0.6
<i>Banksia arborea</i> (P4)		0.5
<i>Beyeria rostellata</i> (P1)	0.3	0.1
<i>Brachychiton gregorii</i>	5	2
<i>Comesperma integerrimum</i>		0.4
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.5
<i>Dodonaea inaequifolia</i>	2.5	2
<i>Eremophila granitica</i>	1.8	0.2
<i>Eremophila serrulata</i>	1.2	1
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus petraea</i>	5	
<i>Grevillea zygodoba</i>	1.8	6

<i>Hibbertia exasperata</i>	1.5	6
<i>Olearia humilis</i>	0.7	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	20
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.7	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.5
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>	2.5	1.5
<i>Scaevola spinescens</i>	1.2	0.6
<i>Stenanthemum newbeyi</i> (P3)	0.5	0.2
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-056  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 744817E 6584241N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 2: *Eremophila metallicorum*, *Eremophila oppositifolia* subsp. *angustifolia*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	8
<i>Acacia tetragonophylla</i>	3	2.5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3.5	5
<i>Alyxia buxifolia</i>	0.6	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	2.2	1
<i>Eremophila metallicorum</i>	1.3	1.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.5	5
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	8	20
<i>Exocarpos aphyllus</i>	0.8	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.4	0.1
<i>Monachather paradoxus</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.1

<i>Olearia pimeleoides</i>	1.3	0.5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	5
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.7	5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.1
<i>Scaevola spinescens</i>	1.5	1
<i>Solanum lasiophyllum</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-057  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745921E 6584880N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*  
 Upper Stratum 2: *Santalum acuminatum*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia aff.intricata</i>	0.5	0.2
<i>Atriplex nummularia</i>	1.5	3
<i>Atriplex vesicaria</i>	0.5	1
<i>Eremophila drummondii</i>	0.6	0.1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	3
<i>Eucalyptus ravida</i>	9	40
<i>Maireana georgei</i>	0.2	0.2
<i>Maireana trichoptera</i>	0.2	0.2
<i>Olearia muelleri</i>	0.5	1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.3	0.2
<i>Santalum acuminatum</i>	2.5	1
<i>Scaevola spinescens</i>	0.5	0.1

<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Templetonia ceracea</i>	0.6	1

**PHOTO**





Site Name: KOOL-059  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745414E 6585022N  
 Community: 9  
 Landform Type: Low rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: Old tracks through area (other)  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Philothea brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	10
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	1
<i>Acacia tetragonophylla</i>	1.5	0.2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	25
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.2	0.7
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.2	3
<i>Eremophila granitica</i>	1.5	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.7	0.1
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7	2
<i>Grevillea zygoloba</i>	1.5	0.5

<i>Lepidosperma ferricola</i> (P3)	0.5	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	0.7
<i>Mirbelia microphylla</i>	0.5	0.2
<i>Monachather paradoxus</i>	0.2	
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.8	3
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.2	4
<i>Scaevola spinescens</i>	1.2	0.6

**PHOTO**



Site Name: KOOL-060  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745242E 6584792N  
 Community: 9  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	10
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	0.7
<i>Acacia tetragonophylla</i>	2	1
<i>Alyxia buxifolia</i>	2	1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Dodonaea inaequifolia</i>	2.5	1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	5
<i>Eremophila granitica</i>	1.5	1.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	1
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7	15
<i>Exocarpos aphyllus</i>	1.8	1.5
<i>Grevillea zygoloba</i>	2	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.6	0.2
<i>Olearia muelleri</i>	0.6	0.3

<i>Olearia pimeleoides</i>	0.5	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	0.3
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.7	0.3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Santalum spicatum</i>	1.7	0.6
<i>Scaevola spinescens</i>	1.2	0.2

**PHOTO**



Site Name: KOOL-061  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 749295E 6583153N  
 Community: 1  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Clay Loam  
 Soil Colour: Red / Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Dodonaea inaequifolia*, *Eremophila interstans* subsp. *interstans*,  
*Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1	1.5
<i>Acacia tetragonophylla</i>	2	0.5
<i>Atriplex nummularia</i>	1.6	3
<i>Atriplex vesicaria</i>	0.5	2
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.2
* <i>Carrichtera annua</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.2	2
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.4	0.2
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3	2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	2
<i>Eremophila scoparia</i>	1.5	9

<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	7	15
<i>Exocarpos aphyllus</i>	1.3	0.6
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.3
<i>Olearia muelleri</i>	0.5	1.5
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.2
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Scaevola spinescens</i>	1.3	0.5
<i>Sclerolaena diacantha</i>	0.1	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.8	0.3
<i>Zygophyllum eremaeum</i>	0.1	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-062  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745273E 6584522N  
 Community: 11  
 Landform Type: Mid / upper slope (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: BIF, Ironstone (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Mid Stratum 1: *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Prostanthera althoferi* subsp. *althoferi*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	15
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	20
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	5	3
<i>Brachychiton gregorii</i>	3	0.5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.7	0.2
<i>Eremophila granitica</i>	1.8	0.3
<i>Grevillea zygoloba</i>	1.5	0.7
<i>Hibbertia exasperata</i>	1	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	0.6
<i>Olearia humilis</i>	0.4	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	10

<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	4
<i>Rinzia carnosa</i>	1	0.2
<i>Santalum spicatum</i>	2.5	0.7
<i>Scaevola spinescens</i>	1.2	0.3
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.2	0.1
<i>Thysanotus ?manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-063  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745508E 6584475N  
 Community: 11  
 Landform Type: Ridge  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: Bif (other), >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Banksia arborea*  
 Mid Stratum 1: *Eremophila granitica*, *Philothea brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	5
<i>Acacia tetragonophylla</i>	0.5	0.1
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	15
<i>Alyxia buxifolia</i>	2	0.5
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Banksia arborea</i> (P4)	4	8
<i>Brachychiton gregorii</i>	1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.7	0.5
<i>Eremophila granitica</i>	1.7	3
<i>Grevillea zygoloba</i>	1.2	0.5
<i>Hibbertia exasperata</i>	0.8	3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	0.8
<i>Mirbelia microphylla</i>	0.4	0.1

<i>Olearia humilis</i>	0.6	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	10
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	0.3
<i>Scaevola spinescens</i>	1	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	1	0.3

**PHOTO**



Site Name: KOOL-064  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 744972E 6584436N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Eremophila granitica*, *Philotheca brucei* subsp. *brucei*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.2	0.2
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	20
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)		0.1
<i>Acacia tetragonophylla</i>	2	0.4
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3.5	20
<i>Alyxia buxifolia</i>	1.8	2
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0.2	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.8	15
<i>Drosera ?macrantha</i>		0.1

<i>Eremophila granitica</i>	1.5	5
<i>Eucalyptus longissima</i>	8	8
<i>Grevillea zygoloba</i>	2.4	1
<i>Hibbertia exasperata</i>	1.2	2
<i>Lawrencella rosea</i>	0.1	0.1
<i>Lepidosperma ferricola</i> (P3)	0.3	0.2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.2
<i>Olearia pimeleoides</i>	0.6	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	10
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	0.2
<i>Santalum spicatum</i>	2.4	2
<i>Scaevola spinescens</i>	1.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.2	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.5	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1
<i>Xerolirion divaricata</i>	0.4	0.6

**PHOTO**



Site Name: KOOL-065  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745293E 6584233N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Banded Ironstone Formation (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Philotheca brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*  
 Lower Stratum 1: *Lepidosperma ferricola*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.9	2
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	4
<i>Acacia tetragonophylla</i>	2.2	0.6
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	10
<i>Alyxia buxifolia</i>	2.2	0.3
<i>Banksia arborea</i> (P4)	3.5	2
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0.1	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.8	0.7
<i>Drosera ?macrantha</i>		0.1
<i>Eremophila granitica</i>	1.8	2
<i>Eremophila serrulata</i>	1.5	2

<i>Eucalyptus longissima</i>	8	15
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	1.2
<i>Hibbertia exasperata</i>	1	0.6
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.4	0.2
<i>Lepidosperma ferricola</i> (P3)	0.4	20
<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.7	20
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.5	10
<i>Scaevola spinescens</i>	0.7	0.2
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-066  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 745401E 6584005N  
 Community: 5  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.3	0.1
<i>Atriplex nummularia</i>	1.7	8
<i>Eremophila ionantha</i>	0.6	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.3	0.1
<i>Eucalyptus salmonophloia</i>	6	2
<i>Eucalyptus transcontinentalis</i>	10	3
<i>Eucalyptus vittata</i>	8	15
<i>Maireana georgei</i>	0.1	0.1
<i>Olearia exiguifolia</i>	0.3	
<i>Olearia muelleri</i>	0.5	1.6
<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>	0.1	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i>	0.1	0.1
<i>Rhodanthe rubella</i>	0.1	0.1

<i>Trachymene pilosa</i>	0.1	0.1
--------------------------	-----	-----

**PHOTO**



Site Name: KOOL-067  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 745692E 6583833N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Light Orange Brown (other)  
 Rock Outcrop: Granite, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Granite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Philotheca brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	15
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	2
<i>Acacia tetragonophylla</i>	2	0.5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	20
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.6	0.5
<i>Drosera</i> ? <i>macrantha</i>		0.1
<i>Eremophila granitica</i>	1	2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2	2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	3
<i>Exocarpos aphyllus</i>	2.2	1.5
<i>Grevillea zygoloba</i>	1.5	0.3



<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.6	0.2
<i>Lepidosperma ferricola</i> (P3)	0.3	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.7	0.3
<i>Olearia muelleri</i>	0.2	0.1
<i>Olearia pimeleoides</i>	0.5	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	15
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.4	0.2
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.5	5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.6	0.1
<i>Scaevola spinescens</i>	0.6	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.8	0.3

**PHOTO**

Site Name:	KOOL-069
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	19/09/2013
GPS Location:	GDA94 (Zone 50) 745773E 6584147N
Community:	11
Landform Type:	Crest
Slope Class:	Moderately Inclined (10 degrees)
Aspect:	S
Soil Type:	Light Clay
Soil Colour:	Red
Rock Outcrop:	Banded Ironstone Formation (other), 10-20% bedrock exposed
CF Abundance:	20-50%
CF Sizes:	2-6mm, 6-20mm, 20-60mm, 60-200mm
CF Types:	Banded Ironstone Formation (other)
Vegetation Condition:	E - Excellent
Disturbance:	None
Fire:	> 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1:	<i>Eucalyptus longissima</i>
Upper Stratum 2:	<i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>
Mid Stratum 1:	<i>Eremophila granitica</i> , <i>Philothea brucei</i> subsp. <i>brucei</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i>
Lower Stratum 1:	<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i>

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	2.5	15
<i>Austrostipa blackii</i> (P3)	0.3	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.3
<i>Dodonaea</i> ? <i>pinifolia</i>	0.3	0.1
<i>Drosera</i> ? <i>macrantha</i>		0.1
<i>Eremophila granitica</i>	1.7	10

<i>*Erodium aureum</i>	0.1	0.1
<i>Eucalyptus longissima</i>	6	9
<i>Grevillea zygoloba</i>	2.5	0.5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.7	2
<i>Lepidosperma ferricola</i> (P3)	0.3	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	1.7
<i>Mirbelia microphylla</i>	0.6	0.2
<i>Olearia humilis</i>	1	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	15
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	1.5
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.5	10
<i>Scaevola spinescens</i>	0.8	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	0.2
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	1.2	0.1
<i>Thysanotus ?manglesianus</i>		0.1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-071  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 17/09/2013  
 GPS Location: GDA94 (Zone 50) 746289E 6584998N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.5	1.5
<i>Atriplex vesicaria</i>	0.5	0.8
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila drummondii</i>	1.2	0.2
<i>Eremophila scoparia</i>	1.2	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	8	30
<i>Eucalyptus ravida</i>	8	10
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.3
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.2	0.2
<i>Templetonia ceracea</i>	1	0.2

#### **PHOTO**



Site Name: KOOL-072  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 17/09/2013  
 GPS Location: GDA94 (Zone 50) 746167E 6584601N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*, *Santalum acuminatum*  
 Mid Stratum 1: *Acacia erinacea*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.6	0.5
<i>Atriplex nummularia</i>	1.2	0.3
<i>Atriplex vesicaria</i>	0.5	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila drummondii</i>	0.7	0.4
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.2	1
<i>Eremophila scoparia</i>	1.6	1.5
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>		1
<i>Eucalyptus salmonophloia</i>	15	20
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.5	0.4
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.3	0.1



<i>Santalum acuminatum</i>	2.5	4
<i>Scaevola spinescens</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.2	0.3
<i>Templetonia ceracea</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-073  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 745928E 6584779N  
 Community: 6  
 Landform Type: Low rise (other)  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Dodonaea stenozyga*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dissona</i> var. <i>indoloria</i> (P3)	1.5	0.2
<i>Acacia erinacea</i>	1.2	0.2
<i>Acacia hemiteles</i>	0	0.1
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Dodonaea stenozyga</i>	1.7	1.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.2	0.1
<i>Eremophila scoparia</i>	0.6	0.1
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus corrugata</i>	9	40
<i>Eucalyptus vittata</i>	9	0.5
<i>Exocarpos aphyllus</i>	0	0.1
<i>Halgania andromedifolia</i>	0.6	0.2
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	1
<i>Olearia pimeleoides</i>	0.4	0.1
<i>Santalum spicatum</i>	2.5	0.6

<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.4	0.1
--	-----	-----

**PHOTO**





Site Name: KOOL-074  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 746470E 6584714N  
 Community: 6  
 Landform Type: Low rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Dolerite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus vittata*Mid Stratum 1: *Halgania andromedifolia***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.6	0.5
<i>Atriplex vesicaria</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Daviesia scoparia</i>	0.6	0.1
<i>Dodonaea stenozyga</i>	0.6	0.1
<i>Eremophila scoparia</i>	1	0.4
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>		
<i>Eucalyptus vittata</i>	9	35
<i>Exocarpos aphyllus</i>	0	0.1
<i>Halgania andromedifolia</i>	1.6	35
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.6	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.2	0.1
<i>Templetonia ceracea</i>	0.5	0.3

**PHOTO**



Site Name: KOOL-075  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 746580E 6584381N  
 Community: 9  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, 10-20% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Eremophila clarkei*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	1
<i>Acacia tetragonophylla</i>	1.5	0.2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	35
<i>Dodonaea inaequifolia</i>	0.3	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.8	5
<i>Eremophila clarkei</i>	1.8	2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2	0.6
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	11	10
<i>Grevillea zygoloba</i>	2	1.5
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.2	0.1
<i>Olearia muelleri</i>	0.5	0.1
<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	0.6
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.8	3



<i>Scaevola spinescens</i>	0.3	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.7	0.1

**PHOTO**



Site Name: KOOL-077  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747187E 6584152N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus ravida*Lower Stratum 1: *Atriplex vesicaria***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.5	0.3
<i>Atriplex stipitata</i>	0.3	0.1
<i>Atriplex vesicaria</i>	0.5	0.7
<i>Eremophila drummondii</i>	0.6	0.2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	5
<i>Eucalyptus ravida</i>	8	35
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-079  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 746307E 6583925N  
 Community: 1  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*, *Scaevola spinescens*  
 Lower Stratum 1: *Atriplex stipitata*, *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.5	0.3
<i>Acacia tetragonophylla</i>	0.5	0.2
<i>Atriplex nummularia</i>	1.2	0.6
<i>Atriplex stipitata</i>	0.6	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila ionantha</i>	1.6	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	2
<i>Eremophila scoparia</i>	1	0.5
<i>Eucalyptus salmonophloia</i>	12	9
<i>Exocarpos aphyllus</i>	1.2	0.5
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1

<i>Rhagodia drummondii</i>	0.4	0.1
<i>Scaevola spinescens</i>	1.2	2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.2

**PHOTO**

Site Name: KOOL-080  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747084E 6583906N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*, *Eucalyptus transcontinentalis*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.6	0.1
<i>Atriplex nummularia</i>	1.6	2
<i>Atriplex vesicaria</i>	0.6	0.5
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	9
<i>Eremophila scoparia</i>	1	0.2
<i>Eucalyptus salmonophloia</i>	16	15
<i>Eucalyptus transcontinentalis</i>	15	13
<i>Eucalyptus vittata</i>		
<i>Exocarpos aphyllus</i>	2	0.6
<i>Maireana georgei</i>	0.1	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.6	0.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1



<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.6	0.1
--	-----	-----

**PHOTO**



Site Name: KOOL-081  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 746247E 6583662N  
 Community: 11  
 Landform Type: Ridge  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Orange + brown (other)  
 Rock Outcrop: Bif (other), >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus petraea*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	15
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3.5	25
<i>Calandrinia eremaea</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Eremophila granitica</i>	1.2	0.3
<i>Eucalyptus petraea</i>	4	2
<i>Grevillea zygoloba</i>	1	0.3
<i>Hibbertia exasperata</i>	0.3	0.1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.3	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.7	1.5
<i>Mirbelia microphylla</i>	1	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.2	0.5
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	0.2
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.6	0.1

<i>Thysanotus ?manglesianus</i>	0	0.1
---------------------------------	---	-----

**PHOTO**





Site Name: KOOL-083  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 746515E 6583441N  
 Community: 11  
 Landform Type: Ridge  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: BIF (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Banksia arborea*, *Eucalyptus corrugata*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Melaleuca hamata*  
 Mid Stratum 1: *Eremophila granitica*, *Eremophila serrulata*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Lepidosperma ferricola*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	10
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	15
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	0.2
<i>Alyxia buxifolia</i>	1	0.1
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Banksia arborea</i> (P4)		
<i>Brachychiton gregorii</i>	0.5	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Dodonaea caespitosa</i>	0.3	0.1
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila granitica</i>	1.5	2

<i>Eremophila serrulata</i>	1.5	2
<i>Eucalyptus corrugata</i>	6	1.5
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Grevillea zygaloba</i>	2	0.2
<i>Hibbertia exasperata</i>	0.5	0.2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.6	0.4
<i>Lawrencella rosea</i>	0.1	0.1
<i>Lepidosperma ferricola</i> (P3)	0.4	12
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.6	0.2
<i>Melaleuca hamata</i>	4	10
<i>Olearia humilis</i>	0.4	0.1
<i>Phebalium tuberosum</i>	1	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.8	4
<i>Scaevola spinescens</i>	1.2	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.7	0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.8	0.2

**PHOTO**

Site Name: KOOL-084  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 745985E 6583472N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus salmonophloia*  
 Upper Stratum 2: *Eucalyptus vittata*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 2: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.3	0.1
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex vesicaria</i>	0.5	1
<i>Austrostipa elegantissima</i>	0.1	0.1
? <i>Enchylaena x Maireana georgei</i>	0.4	0.3
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.5	0.5
<i>Eremophila scoparia</i>	0.4	0.1
<i>Eucalyptus longicornis</i>	12	2
<i>Eucalyptus salmonophloia</i>	15	4
<i>Eucalyptus vittata</i>	8	7
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.2
<i>Olearia muelleri</i>	0.5	1



<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.3
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.1	0.2

**PHOTO**



Site Name: KOOL-085  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 746346E 6583233N  
 Community: 9  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philotheca brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	25
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.6	0.5
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila granitica</i>	1.8	0.7
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.6	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	10
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.5	5
<i>Scaevola spinescens</i>	0.3	0.1

<i>Thysanotus manglesianus</i>	0	0.1
--------------------------------	---	-----

**PHOTO**





Site Name: KOOL-086  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 746655E 6583028N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz, calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus salmonophloia*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	1.5
<i>Atriplex vesicaria</i>	0.6	3
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3.5	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.1	0.2
<i>Eremophila scoparia</i>	1.5	2
<i>Eucalyptus longicornis</i>	15	3
<i>Eucalyptus ravidia</i>	5	1.5
<i>Eucalyptus salmonophloia</i>	15	6
<i>Exocarpos aphyllus</i>	2	1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.6	0.4
<i>Pittosporum angustifolium</i>	0.7	0.1

<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.4	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-087  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 746979E 6583323N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Orange + brown (other)  
 Rock Outcrop: Bif + Quartz (Photo: 702) (other), 2-10% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: BIF + quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Banksia arborea*  
 Upper Stratum 2: *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Mid Stratum 1: *Eremophila granitica*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	10
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	3	20
<i>Banksia arborea</i> (P4)	7	10
<i>Brachychiton gregorii</i>	1.6	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.2
<i>Eremophila granitica</i>	1.8	1.5
<i>Hibbertia exasperata</i>	0.3	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.5	0.3
<i>Olearia humilis</i>	0.8	4
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	2
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	



<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.5	0.1
<i>Thysanotus manglesianus</i>	0	0.1

**PHOTO**



Site Name: KOOL-088  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 746790E 6582986N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz, calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.7	1.5
<i>Atriplex stipitata</i>	0.2	0.1
<i>Atriplex vesicaria</i>	0.6	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila ionantha</i>	1.8	0.1
<i>Eremophila scoparia</i>	0.6	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	4	0.5
<i>Eucalyptus ravidia</i>	4	0.6
<i>Eucalyptus vittata</i>	9	35
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.6	0.4
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Solanum nummularium</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-089  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 745594E 6583624N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*  
 Lower Stratum 2: ?*Enchylaena x Maireana georgei*, *Sclerolaena diacantha*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	2
<i>Atriplex vesicaria</i>	0.6	12
? <i>Enchylaena x Maireana georgei</i>	0.4	1.5
<i>Eremophila ionantha</i>	1.4	0.6
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2	0.4
<i>Eremophila scoparia</i>	1.5	2
<i>Eucalyptus salmonophloia</i>	15	9
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Maireana triptera</i>	0.2	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.4	0.2
<i>Sclerolaena diacantha</i>	0.2	1.5
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5	0.2

**PHOTO**



Site Name: KOOL-090  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 745950E 6584685N  
 Community: 10  
 Landform Type: Low Rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Orange (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.5	0.1
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	10
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	20
<i>Acacia tetragonophylla</i>	2.3	1.2
<i>Atriplex nummularia</i>	1.8	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Eremophila granitica</i>	1.7	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	0.8
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7	8
<i>Exocarpos aphyllus</i>	2	1
<i>Olearia muelleri</i>	0.5	0.2



<i>Olearia pimeleoides</i>	0.7	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>	2	0.5
<i>Scaevola spinescens</i>	1.2	2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1

**PHOTO**

Site Name: KOOL-091  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 745715E 6584664N  
 Community: 5  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Orange (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*, *Scaevola spinescens*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	0.6
<i>Acacia tetragonophylla</i>	0.1	0.1
<i>Atriplex nummularia</i>	1.6	1.2
<i>Dodonaea inaequifolia</i>	0.2	0.1
<i>Eremophila caperata</i>	1	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	1.5
<i>Eucalyptus vittata</i>	11	42
<i>Exocarpos aphyllus</i>	0.3	0.1
<i>Maireana georgei</i>	0.3	0.11
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia exiguiifolia</i>	0.3	0.1
<i>Olearia muelleri</i>	0.5	2.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.2

<i>Scaevola spinescens</i>	1.3	0.8
<i>Sclerolaena patentiscuspis</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-092  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 17/09/2013  
 GPS Location: GDA94 (Zone 50) 744761E 6583660N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Clayey sand (other)  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila ionantha*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Maireana trichoptera*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia merrallii</i>	1.2	0.5
<i>Acacia tetragonophylla</i>	0.6	0.1
<i>Atriplex nummularia</i>	1.7	3
<i>Atriplex vesicaria</i>	0.7	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila ionantha</i>	1.8	1
<i>Eremophila scoparia</i>	1.5	0.5
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus salmonophloia</i>	25	20
<i>Exocarpos aphyllus</i>	0.7	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.3	0.2
<i>Maireana trichoptera</i>	0.3	3
<i>Maireana triptera</i>	0.3	0.1

<i>Olearia muelleri</i>	0.2	0.1
<i>Pittosporum angustifolium</i>	0.5	0.5
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Scaevola spinescens</i>	0.4	0.1
<i>Sclerolaena diacantha</i>	0.1	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	2
<i>Solanum nummularium</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-093  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747059E 6582748N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex stipitata*, *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex stipitata</i>	0.5	0.3
<i>Atriplex vesicaria</i>	0.5	0.7
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.3	0.1
<i>Eremophila drummondii</i>	0.6	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	2
<i>Eucalyptus ravida</i>	8	38
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia pimeleoides</i>	0.6	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.2
<i>Sclerolaena diacantha</i>	0.3	0.1



**PHOTO**



Site Name: KOOL-094  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747212E 6584011N  
 Community: 3  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Light brown orange (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus longicornis*,  
*Eucalyptus vittata*  
 Lower Stratum 1: *Atriplex vesicaria*, *Halgania andromedifolia*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>		
<i>Atriplex vesicaria</i>	0.6	5
<i>Daviesia scoparia</i>	1.2	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	7
<i>Eucalyptus longicornis</i>	10	6
<i>Eucalyptus vittata</i>	8	15
<i>Halgania andromedifolia</i>	0.8	10
<i>Sclerolaena diacantha</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-095  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 748153E 6584089N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.2	0.1
<i>Atriplex nummularia</i>	1.8	4
<i>Atriplex vesicaria</i>	0.5	10
<i>Austrostipa elegantissima</i>	0.4	0.1
? <i>Enchylaena x Maireana georgei</i>	0.3	0.1
<i>Eucalyptus longicornis</i>	12	1
<i>Eucalyptus salmonophloia</i>	13	24
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Pittosporum angustifolium</i>	1.8	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Sclerolaena diacantha</i>	0.2	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.6	0.2
<i>Solanum nummularium</i>	0.3	0.2

**PHOTO**



Site Name: KOOL-098  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 748744E 6583120N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Dodonaea inaequifolia*, *Eremophila oppositifolia* subsp. *angustifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	20
<i>Acacia tetragonophylla</i>	2	1
<i>Atriplex nummularia</i>	1.8	0.3
<i>Austrostipa blackii</i> (P3)	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dodonaea inaequifolia</i>	2.5	8
<i>Eremophila clarkei</i>	1.2	0.3
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3.5	8
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	9	0.5
<i>Exocarpos aphyllus</i>	0.4	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia pimeleoides</i>	0.6	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	0.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.6	0.2



<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	3.5	1
<i>Scaevola spinescens</i>	1.8	0.3
<i>Solanum lasiophyllum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-103  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 747618E 6583033N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*, *Rhagodia drummondii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	0.6	0.1
<i>Acacia erinacea</i>	0.7	0.1
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Acacia tetragonophylla</i>	2	0.5
<i>Alyxia buxifolia</i>	1.8	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.2	4
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	5
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	9	8
<i>Maireana georgei</i>	0.1	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.5	0.1

<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	4
<i>Pittosporum angustifolium</i>	1.8	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1
<i>Rhagodia drummondii</i>	0.4	1
<i>Santalum spicatum</i>	2.2	0.8
<i>Scaevola spinescens</i>	0.4	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.2	0.2

**PHOTO**



Site Name: KOOL-104  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 747718E 6583421N  
 Community: 5  
 Landform Type: Lower slope to plain (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*, *Eucalyptus vittata*, *Eucalyptus yilgarnensis*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex stipitata</i>	0.3	0.1
<i>Commersonia magniflora</i> subsp. <i>oblongifolia</i>		
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	0.8
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus salmonophloia</i>	12	3
<i>Eucalyptus vittata</i>	12	10
<i>Eucalyptus yilgarnensis</i>	10	7
<i>Leucochrysum fitzgibbonii</i>	0.1	0.1
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia pimeleoides</i>		
<i>Phlegmatospermum drummondii</i>	0.1	0.1

<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>	0.1	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Scaevola spinescens</i>	0.3	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1
<i>Thysanotus manglesianus</i>	0	0.1
<i>Thysanotus speckii</i>		
<i>Velleia hispida</i>	0.1	0.1
<i>Westringia cephalantha</i>		

**PHOTO**

Site Name: KOOL-106  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 747423E 6583688N  
 Community: 3  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Calcrete + quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus salubris*Mid Stratum 1: *Atriplex nummularia*Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	2
<i>Atriplex vesicaria</i>	0.5	1
<i>Austrostipa elegantissima</i>	0.1	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1	0.1
<i>Eremophila scoparia</i>	1	0.1
<i>Eucalyptus longicornis</i>	12	3
<i>Eucalyptus salubris</i>	12	22
<i>Exocarpos aphyllus</i>	1.8	0.5
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.3	2

**PHOTO**





Site Name: KOOL-107  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 748476E 6583539N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*  
 Lower Stratum 1: *Atriplex vesicaria*  
 Lower Stratum 2: *Maireana trichoptera*, *Sclerolaena diacantha*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	0.6	0.5
<i>Atriplex vesicaria</i>	0.5	25
<i>Austrostipa elegantissima</i>	0.3	0.1
? <i>Enchylaena x Maireana georgei</i>	0.3	0.2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus ravida</i>	8	28
<i>Eucalyptus salubris</i>		
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.3
<i>Maireana trichoptera</i>	0.2	3
<i>Rhagodia drummondii</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.2	2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-108  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749133E 6582950N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.5	0.3
<i>Acacia jennerae</i>	1.2	0.2
<i>Acacia tetragonophylla</i>	0.3	0.1
<i>Alyxia buxifolia</i>		
<i>Atriplex nummularia</i>	1.8	8
<i>Atriplex vesicaria</i>	0.5	15
<i>Austrostipa platychaeta</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.2
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.1	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.4	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.5	0.2
<i>Eremophila scoparia</i>	1	1
<i>Eriochiton sclerolaenoides</i>	0.3	0.2
<i>Eucalyptus ravida</i>	20	
<i>Eucalyptus salmonophloia</i>	25	20
<i>Exocarpos aphyllus</i>	0.6	0.2
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.1	0.1

<i>Maireana trichoptera</i>	0.2	0.8
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Santalum acuminatum</i>	3	1
<i>Scaevola spinescens</i>	0.5	0.2
<i>Sclerolaena diacantha</i>	0.2	0.2
<i>Solanum nummularium</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		
<i>Zygophyllum eremaeum</i>		

**PHOTO**

Site Name: KOOL-109  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 748695E 6582676N  
 Community: 1  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus salubris*, *Eucalyptus vittata*  
 Lower Stratum 1: *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus*  
 Lower Stratum 2: *Maireana trichoptera*, *Sclerolaena diacantha*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Alyxia buxifolia</i>	1.8	0.2
<i>Atriplex nummularia</i>	0.5	0.2
<i>Atriplex stipitata</i>	0.5	0.2
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	0.8
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	8
<i>Eucalyptus salubris</i>	8	8
<i>Eucalyptus vittata</i>	8	4
<i>Exocarpos aphyllus</i>	2.2	1
<i>Grevillea acuaria</i>	0.3	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.3	0.1



<i>Maireana trichoptera</i>	0.1	0.3
<i>Olearia muelleri</i>	0.6	2
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1
<i>Rhagodia drummondii</i>	0.3	0.2
<i>Scaevola spinescens</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.1	0.5
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-110  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 748239E 6582551N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Allocasuarina eriochlamys* subsp. *eriochlamys*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	2.5	1
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	35
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Brachychiton gregorii</i>	2.5	0.3
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Dodonaea caespitosa</i>	0.4	0.2
<i>Dodonaea</i> ? <i>pinifolia</i>	0.5	0.1
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	0.8	0.2
<i>Eucalyptus longissima</i>	5	2
<i>Grevillea zygoloba</i>	2	2
<i>Hibbertia exasperata</i>	0.4	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.5	0.2
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.5	0.3
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1

---

<i>Stenanthemum newbeyi</i> (P3)	0.5	0.1
<i>Thysanotus manglesianus</i>	0	0.1

**PHOTO**





Site Name: KOOL-111  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747980E 6582567N  
 Community: 2  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus vittata*

Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Daviesia scoparia</i>	1.8	0.2
<i>Eremophila ionantha</i>	1.8	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2	0.5
<i>Eremophila saligna</i>	1.5	0.2
<i>Eremophila scoparia</i>	0.2	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	20
<i>Eucalyptus vittata</i>	9	8
<i>Exocarpos aphyllus</i>	0.4	0.1
<i>Maireana georgei</i>	0.2	0.1
<i>Olearia muelleri</i>	0.6	1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-112  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 747472E 6582593N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*, *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex vesicaria</i>	0.6	5
* <i>Carrichtera annua</i>	0.1	0.1
<i>Daviesia scoparia</i>		
<i>Eremophila scoparia</i>	0.6	0.1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	5	3
<i>Eucalyptus ravida</i>	12	12
<i>Eucalyptus salmonophloia</i>	18	10
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Maireana trichoptera</i>	0.2	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-113  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 747449E 6582109N  
 Community: 3  
 Landform Type: Low rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus longicornis*,  
*Eucalyptus vittata*  
 Lower Stratum 1: *Atriplex vesicaria*, *Halgania andromedifolia*, *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex vesicaria</i>	0.4	1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	7	1.5
<i>Eremophila ionantha</i>	1.2	0.4
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.2	0.2
<i>Eremophila scoparia</i>	0.5	0.2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	5
<i>Eucalyptus longicornis</i>	15	22
<i>Eucalyptus vittata</i>	12	20
<i>Exocarpos aphyllus</i>	0.3	0.1
<i>Halgania andromedifolia</i>	1.4	1
<i>Olearia muelleri</i>	0.4	0.3

#### **PHOTO**





Site Name: KOOL-115  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 747875E 6582155N  
 Community: 1  
 Landform Type: Stony plain (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*, *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Santalum acuminatum*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.6	1
<i>Atriplex vesicaria</i>	0.4	1.5
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.1	0.2
<i>Eucalyptus ravida</i>	12	30
<i>Eucalyptus salmonophloia</i>	20	15
<i>Exocarpos aphyllus</i>	0.3	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Pittosporum angustifolium</i>	1.5	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Santalum acuminatum</i>	1.8	5
<i>Scaevola spinescens</i>	0.5	0.2
<i>Sclerolaena diacantha</i>	0.1	0.2

<i>Sclerolaena fusiformis</i>	0.1	0.1
-------------------------------	-----	-----

**PHOTO**



Site Name: KOOL-116  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 748458E 6582050N  
 Community: 1  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*, *Eucalyptus yilgarnensis*  
 Mid Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	0.7	0.2
<i>Acacia tetragonophylla</i>	2.5	1.5
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Dodonaea inaequifolia</i>	1.6	0.5
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.6	2.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	5
<i>Eucalyptus vittata</i>	10	45
<i>Eucalyptus yilgarnensis</i>	6	7
<i>Olearia muelleri</i>	0.4	0.2
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Solanum lasiophyllum</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-120  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749161E 6582348N  
 Community: 2  
 Landform Type: Simple Slope with Minor Drainage (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus salubris*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.5	2
<i>Atriplex vesicaria</i>	0.5	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	3
<i>Eucalyptus salubris</i>	9	30
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.6	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-121  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749274E 6582604N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Light orange (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus ravida*Lower Stratum 1: *Atriplex nummularia*, *Atriplex vesicaria***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	0.8	3
<i>Atriplex vesicaria</i>	0.6	12
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.5	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.7	0.2
<i>Eremophila scoparia</i>	1	0.1
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus ravida</i>	12	30
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.2
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.1
<i>Santalum acuminatum</i>	4	2
<i>Scaevola spinescens</i>	0.3	0.1

<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Solanum nummularium</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-122  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749713E 6582693N  
 Community: 15  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Granite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Eucalyptus ewartiana*

Lower Stratum 1: *Hybanthus floribundus* subsp. *curvifolius*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	6	35
<i>Austrostipa blackii</i> (P3)	0.2	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.2	0.1
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus ewartiana</i>	5	5
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>	0.5	0.5
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.6	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Solanum nummularium</i>	0.2	0.1

**PHOTO**





Site Name: KOOL-123  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749927E 6582671N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Types: Granite, Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*, *Senna artemisioides* subsp. *filifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dissona</i> var. <i>indoloria</i> (P3)	0.6	0.2
<i>Acacia erinacea</i>	0.7	0.1
<i>Acacia tetragonophylla</i>	0.7	0.1
<i>Atriplex nummularia</i>	1.8	5
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa platychaeta</i>	0.6	0.2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.2
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.1	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.5	0.2
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.5	1.5
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	12	15
<i>Exocarpos aphyllus</i>	1	0.2
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	0.3
<i>Rhagodia drummondii</i>	0.6	0.1
<i>Santalum acuminatum</i>	1.2	0.2

<i>Scaevola spinescens</i>	0.6	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	10
<i>Solanum nummularium</i>	0.2	0.1
<i>Thysanotus ?manglesianus</i>	0	0.1

**PHOTO**



Site Name: KOOL-124  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749536E 6582586N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SE  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz, calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*, *Eucalyptus salubris*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.6	4
<i>Atriplex vesicaria</i>	0.6	10
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.2	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	4	2
<i>Eremophila scoparia</i>	1	1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus salmonophloia</i>	18	20
<i>Eucalyptus salubris</i>	13	10
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.6	5
<i>Pittosporum angustifolium</i>	1.2	0.1
<i>Rhagodia drummondii</i>	0.2	0.1

<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.6	0.2

**PHOTO**



Site Name: KOOL-125  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 749990E 6581873N  
 Community: 2  
 Landform Type: Low Rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Pale White Brown (other)  
 Rock Outcrop: >2% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*  
 Mid Stratum 1: *Acacia* aff. *intricata*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	0.3
<i>Acacia</i> aff. <i>intricata</i>	2	2
<i>Atriplex vesicaria</i>	0.9	1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.1
<i>Eremophila scoparia</i>	1.8	1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	3
<i>Eucalyptus ravida</i>	10	20
<i>Eucalyptus salmonophloia</i>		
<i>Maireana carnosa</i>	0.1	0.1
<i>Maireana georgei</i>	0.3	0.2
<i>Olearia muelleri</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.4	0.1



<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Zygophyllum eremaeum</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-126  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 749877E 6581984N  
 Community: 1  
 Landform Type: Moderate Rise (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Calcrete and Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*, *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus salubris*  
 Mid Stratum 1: *Eremophila scoparia*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Atriplex nummularia*, *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1	0.1
<i>Alyxia buxifolia</i>	0.7	0.1
<i>Atriplex nummularia</i>	0.9	0.5
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Dodonaea inaequifolia</i>	1	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	1
<i>Eremophila scoparia</i>	2.5	0.5
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	5	1
<i>Eucalyptus corrugata</i>		
<i>Eucalyptus salubris</i>	10	35
<i>Eucalyptus vittata</i>		
<i>Exocarpos aphyllus</i>	2.5	1

<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.6	0.1
<i>Scaevola spinescens</i>	1.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-129  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749276E 6581951N  
 Community: 11  
 Landform Type: Low Ridge (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: NW  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Melaleuca leiocarpa*  
 Mid Stratum 1: *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia lepidocalyx* subsp. *tuberculata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	4
<i>Acacia tetragonophylla</i>	2.5	0.3
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	8
<i>Alyxia buxifolia</i>	2	0.2
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	4	0.2
<i>Brachychiton gregorii</i>	2.5	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Dodonaea inaequifolia</i>	1.8	0.1
<i>Eremophila clarkei</i>	1.5	0.2
<i>Grevillea zygoloba</i>	3	0.5

<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.9	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	0.1
<i>Melaleuca leiocarpa</i>	2.3	4
<i>Mirbelia microphylla</i>	1.3	0.1
<i>Olearia humilis</i>	0.9	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.4	2
<i>Scaevola spinescens</i>	0.6	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1

**PHOTO**

Site Name: KOOL-130  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749309E 6581788N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Dodonaea inaequifolia*

Mid Stratum 1: *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	5
<i>Acacia tetragonophylla</i>	4	6
<i>Atriplex nummularia</i>	1.4	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	2.3	3
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila clarkei</i>	0.7	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.1
<i>Exocarpos aphyllus</i>	2.1	0.2
<i>Olearia pimeleoides</i>	1	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.5	0.4



<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhagodia drummondii</i>	0.9	0.1
<i>Santalum spicatum</i>	2.5	0.5
<i>Scaevola spinescens</i>	1.5	4
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Solanum nummularium</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-132  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 749388E 6581535N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Eremophila clarkei*, *Grevillea zygoloba*, *Philothea brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*, *Olearia humilis*, *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	6	15
<i>Acacia tetragonophylla</i>	2	0.5
<i>Aristida contorta</i>	0.2	0.1
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Banksia arborea</i> (P4)	2.5	1
<i>Brachychiton gregorii</i>	3	0.5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	0.4	0.1
<i>Eremophila clarkei</i>	2	3.5
<i>Grevillea zygoloba</i>	3	12
<i>Hibbertia exasperata</i>	0.8	0.5
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.3	1
<i>Olearia humilis</i>	0.6	0.5

<i>Olearia pimeleoides</i>	0.6	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.1
<i>Santalum spicatum</i>	3	1
<i>Scaevola spinescens</i>	1	0.5
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	1	0.2

**PHOTO**



Site Name:	KOOL-133
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	02/09/2013
GPS Location:	GDA94 (Zone 50) 749621E 6581518N
Community:	10
Landform Type:	Mid Slope
Slope Class:	Steep (23 degrees)
Aspect:	NE
Soil Type:	Clay Loam
Soil Colour:	Red Brown (other)
Rock Outcrop:	No bedrock exposed
CF Abundance:	>90%
CF Sizes:	2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
CF Types:	Laterite, Ironstone
Vegetation Condition:	E - Excellent
Disturbance:	Rabbit faecal mounds with grazing activity and an old track/graded line present (other)
Fire:	> 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1:	<i>Acacia tetragonophylla</i> , <i>Atriplex nummularia</i> , <i>Dodonaea inaequifolia</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
Mid Stratum 1:	<i>Scaevola spinescens</i>
Lower Stratum 1:	<i>Ptilotus obovatus</i> var. <i>obovatus</i>

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	1.1	0.3
<i>Acacia tetragonophylla</i>	4.2	1
<i>Atriplex nummularia</i>	2.3	2
? <i>Austrostipa</i> sp.	0.1	0.1
<i>Calandrinia eremaea</i>	0.1	0.1
<i>Cheilanthes</i> ? <i>adiantoides</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	3.5	30
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	4	4
<i>Erodium cygnorum</i>	0.1	0.1

<i>Eucalyptus salubris</i>		
<i>Exocarpos aphyllus</i>	1.8	0.1
<i>Olearia pimeleoides</i>	1.1	0.1
<i>Pittosporum angustifolium</i>		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhagodia drummondii</i>	1	0.3
<i>Santalum spicatum</i>	1.2	0.2
<i>Scaevola spinescens</i>	1.2	0.5
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-136  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 748923E 6581717N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Banksia arborea*

Mid Stratum 1: *Grevillea zygaloba*, *Philotheca brucei* subsp. *brucei*

Lower Stratum 1: *Hibbertia exasperata*, *Hibbertia lepidocalyx* subsp. *tuberculata*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*, *Stenanthemum newbeyi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	6
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	3	15
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	3.5	2.5
<i>Brachychiton gregorii</i>	2.5	0.5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.2
<i>Eremophila clarkei</i>	1.6	0.5
<i>Grevillea zygaloba</i>	1.5	12
<i>Hibbertia exasperata</i>	0.6	0.3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.5	0.2



<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.7	0.3
<i>Mirbelia microphylla</i>	0.6	0.2
<i>Olearia humilis</i>	0.5	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.2	1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.3	0.5
<i>Santalum spicatum</i>	2.7	1.5
<i>Scaevola spinescens</i>	0.5	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.5	0.3

**PHOTO**

Site Name: KOOL-138  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 749154E 6580933N  
 Community: 16  
 Landform Type: Breakaway (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: Laterised Ironstone (other), 10-20% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterised ironstone (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Melaleuca leiocarpa*  
 Lower Stratum 1: *Hibbertia lepidocalyx* subsp. *tuberculata*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philotheca brucei* subsp. *brucei*, *Styphelia* sp. Bullfinch (M. Hislop 3574)

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> aff. <i>acuaria</i>	0.5	0.1
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	5	4
<i>Alyxia buxifolia</i>	1.8	1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Eremophila metallicorum</i>	1.2	0.8
<i>Hakea recurva</i> subsp. <i>recurva</i>	2	0.5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.5	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.5
<i>Melaleuca hamata</i>		
<i>Melaleuca leiocarpa</i>	2.5	5
<i>Mirbelia microphylla</i>	1	0.5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3)	0.4	0.5
<i>Xerolirion divaricata</i>	0.4	0.1

**PHOTO**





Site Name: KOOL-139  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 748805E 6581337N  
 Community: 16  
 Landform Type: Breakaway (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: Laterised Ironstone (other), 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterised ironstone (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Callitris columellaris*, *Melaleuca hamata*, *Melaleuca leiocarpa*  
 Lower Stratum 1: *Acacia* aff. *acutata*, *Styphelia* sp. Bullfinch (M. Hislop 3574), *Xerolirion divaricata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> aff. <i>acuaria</i>	0.5	0.3
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	2.5
<i>Alyxia buxifolia</i>	2	1
<i>Callitris columellaris</i>	3	4
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cyanicula amplexans</i>	0.1	0.1
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.4	0.1
<i>Melaleuca hamata</i>	4	4
<i>Melaleuca leiocarpa</i>	2	6
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.3	0.1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3)	0.5	0.5
<i>Xerolirion divaricata</i>	0.3	0.4

**PHOTO**



Site Name: KOOL-140  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 748998E 6581093N  
 Community: 16  
 Landform Type: Breakaway (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: Laterised Ironstone (other), 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterised ironstone (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Callitris columellaris*, *Melaleuca hamata*, *Melaleuca leiocarpa*

Lower Stratum 1: *Xerolirion divaricata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> aff. <i>acuaria</i>		
<i>Alyxia buxifolia</i>	1.8	1
<i>Callitris columellaris</i>	2.5	5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma volubile</i>		
<i>Eucalyptus capillosa</i>		
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.4	0.1
<i>Melaleuca hamata</i>	4	10
<i>Melaleuca leiocarpa</i>	1.8	3
<i>Phebalium lepidotum</i>		
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3)		
<i>Xerolirion divaricata</i>	0.4	0.3

**PHOTO**





Site Name: KOOL-141  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 749060E 6580991N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Laterised ironstone (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Dodonaea inaequifolia*  
 Mid Stratum 2: *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*, *Trymalium myrtillus* subsp. *myrtillus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.4	0.5
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	20
<i>Acacia tetragonophylla</i>	4	5
<i>Alyxia buxifolia</i>	2.5	2
<i>Austrostipa elegantissima</i>	0.4	0.2
<i>Comesperma integerrimum</i>	0	0.1
<i>Daviesia scoparia</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	3.5	2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.5	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2	1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	3
<i>Exocarpos aphyllus</i>	2	1

<i>Grevillea acuaria</i>	1	1
<i>Olearia pimeleoides</i>	2	0.5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Scaevola spinescens</i>	1.6	3
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	2	1

**PHOTO**



Site Name: KOOL-142  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 748482E 6581728N  
 Community: 2  
 Landform Type: Drainage flat (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*

Lower Stratum 1: *Atriplex vesicaria*, *Dodonaea stenozyga*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Alyxia buxifolia</i>	0.2	0.1
<i>Atriplex nummularia</i>	2	2
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Daucus glochidiatus</i>	0.1	0.1
<i>Dodonaea stenozyga</i>	0.7	0.5
<i>Eremophila interstans</i> subsp. <i>interstans</i>	7	2
<i>Eremophila ionantha</i>	0.2	0.1
<i>Eremophila scoparia</i>	0.3	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	10	10
<i>Eucalyptus ravida</i>	13	30
<i>Maireana georgei</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-143  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 748292E 6581730N  
 Community: 1  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 2: *Dodonaea inaequifolia*, *Eremophila oppositifolia* subsp. *angustifolia*,  
*Eremophila scoparia*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Acacia erinacea*, *Atriplex vesicaria*, *Olearia muelleri*, *Ptilotus obovatus* var.  
*obovatus*, *Scaevola spinescens*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1	0.5
<i>Acacia tetragonophylla</i>	1.2	0.2
<i>Alyxia buxifolia</i>	1.6	0.3
<i>Atriplex nummularia</i>	1.4	0.5
<i>Atriplex vesicaria</i>	0.5	0.3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	1.3	1.5
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3	4
<i>Eremophila ionantha</i>	1	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.2	0.3
<i>Eremophila scoparia</i>	1.4	0.5
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus salubris</i>	10	10



<i>Exocarpos aphyllus</i>	2	1
<i>Grevillea acuaria</i>	0.4	0.1
<i>Maireana trichoptera</i>	0.2	0.2
<i>Olearia muelleri</i>	0.5	0.3
<i>Pittosporum angustifolium</i>	1.5	0.3
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Santalum spicatum</i>	1.3	0.3
<i>Scaevola spinescens</i>	0.4	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-144  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749533E 6581063N  
 Community: 4  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus capillosa*  
 Mid Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*, *Eremophila serrulata*,  
*Grevillea acuaria*  
 Lower Stratum 1: *Acacia erinacea*, *Olearia muelleri*, *Olearia pimeleoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>		
<i>Acacia erinacea</i>	0.6	1
<i>Alyxia buxifolia</i>	0.8	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Banksia arborea</i> (P4)		
<i>Blennospora drummondii</i>	0.1	0.1
<i>Brachyscome perpusilla</i>	0.1	0.1
<i>Calandrinia</i> sp.		
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Crassula ?tetramera</i>		
<i>Cyanicula amplexans</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.2	0.1
<i>Eremophila clarkei</i>	1.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	2

<i>Eremophila serrulata</i>	2	3
<i>Erodium cygnorum</i>		
<i>Eucalyptus capillosa</i>	15	10
<i>Grevillea acuaria</i>	1.6	5
<i>Isotoma petraea</i>		
<i>Maireana trichoptera</i>	0.1	0.1
<i>Millotia myosotidifolia</i>		
<i>Olearia muelleri</i>	0.4	0.3
<i>Olearia pimeleoides</i>	0.6	0.5
<i>Pittosporum angustifolium</i>	1.2	0.1
<i>Plantago debilis</i>	0.1	0.1
<i>Pleurosorus rutifolius</i>		
<i>Podolepis tepperi</i>		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.6	0.2
<i>Senecio glossanthus</i>	0.1	0.1
<i>Senecio picridioides</i>		
<i>Tetratheca erubescens</i> (T)		
<i>Thysanotus manglesianus</i>	0	0.1
<i>Trachymene ornata</i>		
<i>Wahlenbergia ?gracilentia</i>		

**PHOTO**



Site Name: KOOL-145  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 749186E 6581334N  
 Community: 4  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus capillosa*  
 Mid Stratum 1: *Dodonaea inaequifolia*, *Eremophila clarkei*, *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 2: *Grevillea zygoloba*, *Trymalium myrtillus* subsp. *myrtillus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> aff. <i>acuaria</i>		
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	1.5	1.5
<i>Acacia tetragonophylla</i>	0.4	0.2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	1
<i>Alyxia buxifolia</i>	1	0.5
<i>Amyema miquelii</i>	0	0.1
<i>Arthropodium curvipes</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Blennospora drummondii</i>	0.1	0.1
<i>Caladenia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	3	3
<i>Drosera</i> ? <i>macrantha</i>	0	0.1

<i>Eremophila clarkei</i>	4	2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	3
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus capillosa</i>	12	30
<i>Grevillea acuaria</i>	1.5	0.5
<i>Grevillea zygaloba</i>	2	2
<i>Hibbertia exasperata</i>	1	0.5
<i>Olearia muelleri</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.4	0.1
<i>Rytidosperma caespitosum</i>	0.2	0.1
<i>Scaevola spinescens</i>	0.4	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.3	0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.8	6
<i>Xerolirion divaricata</i>	0.4	2

**PHOTO**

Site Name: KOOL-146  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 749451E 6581229N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Alyxia buxifolia*, *Banksia arborea*, *Grevillea zygodoba*  
 Mid Stratum 2: *Beyeria rostellata*, *Hibbertia exasperata*, *Stenanthemum newbeyi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia tetragonophylla</i>	2	0.5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	2.5	30
<i>Alyxia buxifolia</i>	1	4
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	4.5	2
<i>Beyeria rostellata</i> (P1)	1.3	0.5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea caespitosa</i>	0.5	0.5
<i>Drosera ?macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	2	1
<i>Eremophila serrulata</i>	0.5	0.3



<i>Eucalyptus longissima</i>	8	8
<i>Grevillea zygoloba</i>	2.5	4
<i>Hemigenia brachyphylla</i>	0.4	0.5
<i>Hibbertia exasperata</i>	1	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.5	0.5
<i>Lepidosperma ferricola</i> (P3)	0.3	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.3
<i>Mirbelia microphylla</i>	0.4	0.2
<i>Olearia pimeleoides</i>	1.3	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.5	1
<i>Schoenia cassiniana</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.6	0.5
<i>Stenanthemum newbeyi</i> (P3)	0.6	1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.5	0.5

**PHOTO**

Site Name: KOOL-147  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749351E 6580843N  
 Community: 1  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*, *Eucalyptus vittata*  
 Mid Stratum 1: *Eremophila ionantha*, *Eremophila oppositifolia* subsp. *angustifolia*,  
*Eremophila scoparia*  
 Lower Stratum 1: *Atriplex nummularia*, *Exocarpos aphyllus*, *Halgania andromedifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.3	0.3
<i>Atriplex nummularia</i>	1.5	1.5
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Eremophila interstans</i> subsp. <i>interstans</i>	5	1
<i>Eremophila ionantha</i>	2	2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	1.5
<i>Eremophila scoparia</i>	2	1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>		
<i>Eucalyptus longicornis</i>		
<i>Eucalyptus ravida</i>		
<i>Eucalyptus salmonophloia</i>	15	15
<i>Eucalyptus vittata</i>	10	25
<i>Exocarpos aphyllus</i>	1.7	1
<i>Grevillea acuaria</i>		

<i>Halgania andromedifolia</i>	1.3	4
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Maireana triptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.4	0.4
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-148  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/09/2013  
 GPS Location: GDA94 (Zone 50) 749695E 6580919N  
 Community: 6  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus corrugata*,  
*Eucalyptus vittata*

Mid Stratum 1: *Acacia andrewsii*, *Acacia erinacea*, *Dodonaea stenozyga*, *Eremophila saligna*,  
*Halgania andromedifolia*, *Trymalium myrtillus* subsp. *myrtillus*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1	0.5
<i>Acacia erinacea</i>	1	0.5
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Daviesia scoparia</i>		
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.3	0.1
<i>Dodonaea stenozyga</i>	1.3	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	4	0.5
<i>Eremophila saligna</i>	1.5	0.5
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	8	7
<i>Eucalyptus corrugata</i>	8	35
<i>Eucalyptus vittata</i>	8	10
<i>Halgania andromedifolia</i>	1	3
<i>Olearia muelleri</i>	0.3	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.3	0.5
<i>Westringia cephalantha</i>		

<i>Zygophyllum apiculatum</i>	0.3	0.2
-------------------------------	-----	-----

**PHOTO**



Site Name: KOOL-150  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750081E 6580768N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Grevillea zygaloba*  
 Mid Stratum 2: *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*, *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4.5	20
<i>Acacia tetragonophylla</i>	3	1
<i>Amyema miquelii</i>	0	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Banksia arborea</i> (P4)		
<i>Beyeria rostellata</i> (P1)	1	0.2
<i>Brachychiton gregorii</i>		
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.2
<i>Dodonaea inaequifolia</i>	3	1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1



<i>Eremophila clarkei</i>	2	2
<i>Eremophila serrulata</i>	0.5	0.5
<i>Eucalyptus longissima</i>	8	8
<i>Grevillea zygaloba</i>	3	
<i>Hibbertia exasperata</i>	1	2
<i>Olearia humilis</i>	1	2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	5
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.4	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.3
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	3	1
<i>Scaevola spinescens</i>	1.3	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.3	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum cleistogamum</i>	0.2	0.2
<i>Solanum lasiophyllum</i>	0.3	0.1
<i>Stenanthemum newbeyi</i> (P3)	1.5	0.5
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.5	1

**PHOTO**

Site Name: KOOL-153  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749862E 6580410N  
 Community: 11  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)

Mid Stratum 1: *Eremophila serrulata*, *Philotheca brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*, *Trymalium myrtillus* subsp. *myrtillus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	6	35
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	4
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Cyanicula amplexans</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	3	1
<i>Drosera</i> ? <i>macrantha</i>	0.1	0.1
<i>Eremophila serrulata</i>	2	3
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus longissima</i>	6	3
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>	0.4	1
<i>Millotia myosotidifolia</i>	0.1	0.1
<i>Parietaria cardiostegia</i>	0.1	0.1

<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	1
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.2	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.5	8
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.2
<i>Santalum spicatum</i>	4	1
<i>Scaevola spinescens</i>	1	0.2
<i>Schoenia cassiniana</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.2
<i>Solanum cleistogamum</i>	0.2	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenopetalum filifolium</i>	0.1	0.1
<i>Thysanotus manglesianus</i>	0	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	2.5	5
<i>Zygophyllum apiculatum</i>	0.3	0.2

**PHOTO**



Site Name: KOOL-154  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749621E 6580512N  
 Community: 3  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus vittata*  
 Mid Stratum 1: *Eremophila scoparia*, *Halgania andromedifolia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex vesicaria</i>	0.5	2.5
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Daviesia scoparia</i>	2.5	1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	6	1.5
<i>Eremophila scoparia</i>	1.5	1.5
<i>Eucalyptus longicornis</i>	16	10
<i>Eucalyptus vittata</i>	13	30
<i>Exocarpos aphyllus</i>	1.2	1
<i>Halgania andromedifolia</i>	1	3
<i>Olearia muelleri</i>	0.3	0.2

#### **PHOTO**



Site Name: KOOL-155  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750316E 6582446N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Old vehicle tracks (other)  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila decipiens* subsp. *decipiens*, *Eremophila ionantha*, *Rhagodia drummondii*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	25
<i>Acacia tetragonophylla</i>	3.5	0.3
<i>Atriplex nummularia</i>	1.5	0.5
<i>Atriplex stipitata</i>	0.5	0.1
<i>Austrostipa elegantissima</i>	0.4	0.2
<i>Austrostipa nitida</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.7	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1.8	0.5
<i>Eremophila ionantha</i>	1.9	0.5
<i>Eriochiton sclerolaenoides</i>	0.2	0.1



<i>Eucalyptus longissima</i>	7	9
<i>Exocarpos aphyllus</i>	0.7	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.6	0.1
<i>Pittosporum angustifolium</i>	1.9	0.1
<i>Ptilotus divaricatus</i>	0.5	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.1
<i>Rhagodia drummondii</i>	1.2	0.5
<i>Scaevola spinescens</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.1
<i>Senna stowardii</i>	0.7	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum nummularium</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-156  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750355E 6582224N  
 Community: 3  
 Landform Type: Low Rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus salubris*  
 Upper Stratum 2: *Eucalyptus celastroides* subsp. *celastroides*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*, *Santalum acuminatum*  
 Mid Stratum 2: *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1	0.1
<i>Atriplex nummularia</i>	1.3	0.1
<i>Atriplex vesicaria</i>	0.6	1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea stenozyga</i>	1.2	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	5	0.5
<i>Eremophila ionantha</i>		
<i>Eremophila scoparia</i>	1.5	2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	9	1
<i>Eucalyptus longicornis</i>	18	20
<i>Eucalyptus salubris</i>	10	10

<i>Exocarpos aphyllus</i>	1.6	0.2
<i>Halgania andromedifolia</i>	0.4	0.1
<i>Olearia muelleri</i>	0.4	2
<i>Santalum acuminatum</i>	3	3
<i>Solanum nummularium</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-157  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 750283E 6581692N  
 Community: 2  
 Landform Type: Low Mound (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Pale White Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Acacia* aff. *intricata*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> aff. <i>intricata</i>	1.8	2.5
<i>Atriplex nummularia</i>	1	0.1
<i>Atriplex vesicaria</i>	0.5	0.3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Chenopodium curvispicatum</i>	0.2	0.1
<i>Enchylaena lanata</i>	0.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	1
<i>Eremophila scoparia</i>	1.7	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	3
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>		
<i>Eucalyptus ravida</i>	10	15
<i>Exocarpos aphyllus</i>	2	0.1
<i>Maireana carnososa</i>	0.1	0.1

<i>Maireana georgei</i>	0.3	0.1
<i>Olearia muelleri</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-158  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750634E 6581937N  
 Community: 1  
 Landform Type: Low Rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	2
<i>Atriplex vesicaria</i>	0.7	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Chenopodium curvispicatum</i>	0.6	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	6	3
<i>Eremophila scoparia</i>	1	0.1
<i>Eucalyptus longicornis</i>	18	25
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Olearia muelleri</i>	0.4	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.6	0.2



<i>Scaevola spinescens</i>	1.3	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	0.2
<i>Solanum nummularium</i>	0.3	0.1

**PHOTO**



Site Name: KOOL-159  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 750798E 6582082N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla*  
 Mid Stratum 2: *Atriplex nummularia*, *Eremophila ionantha*, *Senna artemisioides* subsp. *x artemisioides*, *Senna stowardii*  
 Lower Stratum 1: *Atriplex stipitata*, *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia jennerae</i>		
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	3
<i>Acacia tetragonophylla</i>	3	0.8
<i>Atriplex nummularia</i>	1.5	0.3
<i>Atriplex stipitata</i>	0.6	0.1
<i>Atriplex vesicaria</i>	0.6	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1.2	0.2
<i>Eremophila ionantha</i>	1.8	2
<i>Eucalyptus corrugata</i>	9	3
<i>Eucalyptus longissima</i>	8	4

<i>Exocarpos aphyllus</i>	0.8	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.3	0.1
<i>Pittosporum angustifolium</i>	1.6	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.2
<i>Rhagodia drummondii</i>	0.7	0.2
? <i>Rhyncharrhena linearis</i>		0.1
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>		
<i>Scaevola spinescens</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	1.2	2
<i>Senna stowardii</i>	1	0.3
<i>Solanum nummularium</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Zygophyllum eremaeum</i>	0.3	0.1

**PHOTO**



Site Name: KOOL-160  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 751100E 6581920N  
 Community: 1  
 Landform Type: Mid Slope of Low Hill (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SSW  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite, Calcrete (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Rabbit mounds and diggings (other)  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*, *Santalum acuminatum*  
 Mid Stratum 2: *Acacia dissona* var. *indoloria*, *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Ptilotus obovatus* var. *obovatus*  
 Lower Stratum 2: *Austrostipa scabra* subsp. *scabra*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dissona</i> var. <i>indoloria</i> (P3)	2	1
<i>Acacia erinacea</i>	1.1	0.1
<i>Acacia jennerae</i>		
<i>Acacia tetragonophylla</i>		
<i>Alyxia buxifolia</i>	1.5	0.2
<i>Atriplex nummularia</i>	1.8	1.5
<i>Atriplex vesicaria</i>	0.5	0.5
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	1
<i>Chenopodium curvispicatum</i>	0.5	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dodonaea inaequifolia</i>	1.1	0.1

<i>Dodonaea stenozyga</i>	1.1	0.2
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	0.7	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2.7	2
<i>Eucalyptus corrugata</i>	10	8
<i>Exocarpos aphyllus</i>	1.5	0.2
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.4	0.1
<i>Pittosporum angustifolium</i>	1.2	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	1
<i>Rhagodia drummondii</i>	1	0.2
<i>Santalum acuminatum</i>	3	0.3
<i>Scaevola spinescens</i>	0.4	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.2
<i>Solanum nummularium</i>	0.3	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.6	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-161  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 750621E 6581510N  
 Community: 1  
 Landform Type: Simple Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Orange Red (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus transcontinentalis*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila oppositifolia* subsp. *angustifolia*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	2	0.8
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	0.6	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.5	0.5
<i>Eucalyptus salubris</i>		
<i>Eucalyptus transcontinentalis</i>	20	40
<i>Eucalyptus vittata</i>		
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia muelleri</i>	0.5	0.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.3	0.1
<i>Scaevola spinescens</i>	0.5	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1



**PHOTO**



Site Name: KOOL-162  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 751264E 6581663N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus salubris*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Actinobole uliginosum</i>	0.1	0.1
<i>Atriplex nummularia</i>	1.5	2
<i>Atriplex vesicaria</i>	0.6	2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Chthonocephalus pseudevax</i>	0.1	0.1
<i>Eragrostis dielsii</i>	0.1	0.1
<i>Eremophila alternifolia</i>	1.4	0.2
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.4	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.6	0.2
<i>Eremophila scoparia</i>	1.2	0.2
* <i>Erodium cicutarium</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	11	5
<i>Eucalyptus salubris</i>	11	3
<i>Euphorbia philochalix</i>		0.1

<i>Hydrocotyle pilifera</i> var. <i>glabrata</i>	0.1	0.1
<i>Lawrenzia diffusa</i>		
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.2
<i>Maireana trichoptera</i>	0.2	0.2
<i>Menkea australis</i>	0.1	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Scaevola spinescens</i>	0.7	0.1
<i>Sclerolaena diacantha</i>	0.1	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5	0.1
<i>Senna stowardii</i>	0.3	0.1

**PHOTO**



Site Name: KOOL-163  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750888E 6581411N  
 Community: 1  
 Landform Type: Simple Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Orange Red (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*

Mid Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.4	0.2
<i>Atriplex nummularia</i>	1.4	0.3
<i>Atriplex stipitata</i>	0.5	0.1
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>		
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	4
<i>Eremophila scoparia</i>	1.3	0.1
<i>Eucalyptus salmonophloia</i>	17	20
<i>Exocarpos aphyllus</i>	1.4	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1

<i>Rhagodia drummondii</i>	0.5	0.1
<i>Scaevola spinescens</i>	1.5	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-166  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750487E 6581146N  
 Community: 1  
 Landform Type: Bank of Drainage Line (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus longicornis*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 2: *Atriplex nummularia*, *Eremophila ionantha*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.5	0.1
<i>Atriplex nummularia</i>	1.6	1
<i>Atriplex vesicaria</i>	0.4	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	4	0.3
<i>Eremophila ionantha</i>	1.8	2
<i>Eremophila scoparia</i>	1.4	0.4
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	0.2
<i>Eucalyptus longicornis</i>	15	25
<i>Eucalyptus salubris</i>		
<i>Eucalyptus vittata</i>		
<i>Maireana georgei</i>	0.1	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.3	0.1



<i>Rhagodia drummondii</i>	0.3	0.1
<i>Sclerolaena diacantha</i>		
<i>Solanum nummularium</i>	0.3	0.1
<i>Swainsona canescens</i>		
<i>Zygophyllum apiculatum</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-167  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 751297E 6581202N  
 Community: 5  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SE  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus vittata*  
 Mid Stratum 1: *Atriplex nummularia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Actinobole uliginosum</i>	0.1	0.1
<i>Atriplex nummularia</i>	1.9	1
<i>Atriplex stipitata</i>	0.6	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Calotis hispidula</i>	0.1	0.1
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	0.1	0.1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus vittata</i>	10	35
<i>Hydrocotyle pilifera</i> var. <i>glabrata</i>	0.1	0.1
<i>Leucochrysum fitzgibbonii</i>	0.1	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia exiguifolia</i>		
<i>Olearia muelleri</i>	0.3	0.1

<i>*Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Phlegmatospermum drummondii</i>	0.1	0.1
<i>Plantago debilis</i>	0.1	0.1
<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>	0.2	0.1
<i>Ptilotus holosericeus</i>		0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1
<i>Stenopetalum filifolium</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Velleia hispida</i>	0.1	0.1
<i>Westringia cephalantha</i>	2.1	0.2

**PHOTO**



Site Name: KOOL-168  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750989E 6580970N  
 Community: 13  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia sibina*  
 Lower Stratum 1: *Hemigenia brachyphylla*, *Hibbertia eatoniae*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia sibina</i>	4.5	40
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.8	0.3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Dodonaea caespitosa</i>	0.8	0.1
<i>Drosera ?macrantha</i>		0.1
<i>Grevillea zygaloba</i>	3	0.8
<i>Hemigenia brachyphylla</i>	0.8	1
<i>Hibbertia eatoniae</i>	0.4	1.5
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1	0.1
<i>Melaleuca hamata</i>	4	0.5
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-169  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750798E 6580846N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 2: *Grevillea zygaloba*, *Santalum spicatum*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Olearia muelleri*, *Olearia pimeleoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	4
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>		
<i>Alyxia buxifolia</i>	2.5	0.4
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dodonaea inaequifolia</i>	1.3	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.6	1
<i>Eremophila clarkei</i>	1.8	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	0.5
<i>Eucalyptus corrugata</i>	8	1
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	8	6
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Grevillea zygaloba</i>	2	4



<i>Olearia muelleri</i>	0.4	0.2
<i>Olearia pimeleoides</i>	0.7	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>		
<i>Santalum spicatum</i>	2	1
<i>Scaevola spinescens</i>	1.2	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.9	0.1

**PHOTO**

Site Name: KOOL-170  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751034E 6580770N  
 Community: 13  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia sibina*, *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Melaleuca hamata*

Mid Stratum 1: *Grevillea zygaloba*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Rinzia carnosa*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia sibina</i>	2.8	0.2
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	80
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea caespitosa</i>	0.5	0.1
<i>Grevillea zygaloba</i>	1.9	1
<i>Hemigenia brachyphylla</i>	0.5	0.1
<i>Hibbertia eatoniae</i>	0.6	3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	1
<i>Melaleuca hamata</i>	3	3
<i>Olearia pimeleoides</i>	0.6	0.1
<i>Rinzia carnosa</i>	1.3	1
<i>Scaevola spinescens</i>	0.8	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.4	0.1

---

<i>Thysanotus manglesianus</i>		0.1
--------------------------------	--	-----

**PHOTO**





Site Name: KOOL-171  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 751414E 6580779N  
 Community: 14  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Melaleuca hamata*  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Lower Stratum 1: *Hibbertia eatoniae*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	0.7
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3.5	0.5
<i>Acacia tetragonophylla</i>	4	0.3
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	20
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Brachychiton gregorii</i>	4	0.5
<i>Cheilanthes</i> ? <i>adiantoides</i>	0.1	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.1	0.3
<i>Drosera</i> ? <i>macrantha</i>		0.1
<i>Hibbertia eatoniae</i>	0.4	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.5
<i>Melaleuca hamata</i>	5	35
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	0.1

<i>Scaevola spinescens</i>	1.2	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-172  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750401E 6580662N  
 Community: 11  
 Landform Type: Mid Slope of Valley (other)  
 Slope Class: Very Steep (37 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Grevillea zygoloba*  
 Mid Stratum 2: *Dodonaea inaequifolia*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	4
<i>Acacia tetragonophylla</i>	3	3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Dodonaea inaequifolia</i>	1.8	1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.6	0.1
<i>Eremophila clarkei</i>	1.2	0.2
<i>Eucalyptus longissima</i>	8	5
<i>Grevillea zygoloba</i>	2.3	2



<i>Hibbertia exasperata</i>	0.9	0.1
<i>Mirbelia microphylla</i>	1.1	0.1
<i>Olearia humilis</i>	0.3	0.2
<i>Olearia muelleri</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.4	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.5	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>	2	0.3
<i>Scaevola spinescens</i>	1.8	2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.3	0.5
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Solanum nummularium</i>	0.2	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.7	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-173  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750461E 6580600N  
 Community: 11  
 Landform Type: Mid Slope of Valley (other)  
 Slope Class: Very Steep (37 degrees)  
 Aspect: NNE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Brachychiton gregorii*  
 Mid Stratum 1: *Acacia caesaneura* (narrow phyllodes variant), *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Grevillea zygoloba*  
 Mid Stratum 2: *Eremophila clarkei*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philothea brucei* subsp. *brucei*  
 Lower Stratum 1: *Prostanthera althoferi* subsp. *althoferi*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow phyllodes variant)	5	1
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	6
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	3	15
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Brachychiton gregorii</i>	4.5	1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.9	0.2
<i>Eremophila clarkei</i>	1.5	1

<i>Grevillea zygoloba</i>	2.5	8
<i>Hemigenia brachyphylla</i>	0.4	0.1
<i>Hibbertia eatoniae</i>	0.4	0.5
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.3	2
<i>Mirbelia microphylla</i>	1	0.1
<i>Monachather paradoxus</i>	0.2	0.1
<i>Olearia humilis</i>	0.8	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.2	1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.7	2
<i>Rhyncharrhena linearis</i>		0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.2	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.9	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-174  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750279E 6580514N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Brachychiton gregorii*, *Dodonaea inaequifolia*, *Grevillea zygodoba*, *Santalum spicatum*  
 Mid Stratum 2: *Eremophila clarkei*, *Hibbertia eatoniae*, *Hibbertia exasperata*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Mirbelia microphylla*, *Philothea brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*, *Trymalium myrtillus* subsp. *myrtillus*  
 Lower Stratum 1: *Hybanthus floribundus* subsp. *curvifolius*, *Lepidosperma ferricola*, *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Acacia tetragonophylla</i>	3	1.5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	3
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Beyeria rostellata</i> (P1)	1.2	0.2
<i>Brachychiton gregorii</i>	3	2
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1

<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.2
<i>Dodonaea inaequifolia</i>	3	2
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	2	3
<i>Eucalyptus longissima</i>	6	5
<i>Grevillea zygaloba</i>	2.5	5
<i>Hibbertia eatoniae</i>	1	2
<i>Hibbertia exasperata</i>	1.2	2
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>	0.4	0.4
<i>Lepidosperma ferricola</i> (P3)	0.5	1.5
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	4
<i>Mirbelia microphylla</i>	1.5	3
<i>Olearia humilis</i>	0.5	3
<i>Philothea brucei</i> subsp. <i>brucei</i>	1	1
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.7	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.4	0.5
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.3	3
<i>Santalum spicatum</i>	2.5	1
<i>Scaevola spinescens</i>	0.8	0.2
<i>Schoenia cassiniana</i>	0.2	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Stenanthemum newbeyi</i> (P3)	1	0.5
<i>Thysanotus manglesianus</i>	0	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.6	1

**PHOTO**





Site Name: KOOL-176  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750867E 6580579N  
 Community: 11  
 Landform Type: Breakaway/Mid Slope (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: Laterite (other), >50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Granite, Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Grevillea zygaloba*  
 Lower Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 2: *Hibbertia eatoniae*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	6
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	3	20
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Brachychiton gregorii</i>	1.3	0.1
<i>Calandrinia eremaea</i>		0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	1	0.4
<i>Drosera ?macrantha</i>		0.1
<i>Eremophila clarkei</i>	1.7	0.3
<i>Erodium cygnorum</i>	0.1	0.1

<i>Eucalyptus longissima</i>	6	2
<i>Grevillea zygoloba</i>	3	10
<i>Hemigenia brachyphylla</i>	0.5	0.1
<i>Hibbertia eatoniae</i>	0.4	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	2
<i>Olearia humilis</i>	0.4	0.2
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.2	1
<i>Phyllangium sulcatum</i>	0.1	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	2
<i>Rhyncharrhena linearis</i>		0.1
<i>Scaevola spinescens</i>	1.1	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.7	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-177  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 751216E 6580646N  
 Community: 13  
 Landform Type: Minor Drainage Line/Low Gully (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Clay Loam (other)  
 Soil Colour: Orange Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Melaleuca hamata*, *Melaleuca radula*  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Lower Stratum 1: *Hemigenia brachyphylla*, *Hibbertia eatoniae*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	0.3
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	4
<i>Aristida contorta</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.4	0.1
<i>Brachychiton gregorii</i>		
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Eremophila serrulata</i>		
<i>Grevillea zygaloba</i>	1.5	0.5
<i>Hemigenia brachyphylla</i>	0.5	1
<i>Hibbertia eatoniae</i>	0.4	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.3	0.2
<i>Malleostemon tuberculatus</i>	1.8	0.2
<i>Melaleuca hamata</i>	3.5	4



<i>Melaleuca radula</i>	2.5	1
<i>Rinzia carnosa</i>	0.7	0.1
<i>Senna pleurocarpa</i> var. <i>angustifolia</i>		
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-178  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751316E 6580529N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Eremophila oppositifolia* subsp. *angustifolia*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Eremophila clarkei*, *Scaevola spinescens*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	4
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3	0.1
<i>Acacia tetragonophylla</i>	2.2	1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	2
<i>Eremophila clarkei</i>	1.9	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.3	1
<i>Eucalyptus corrugata</i>	8	2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	8	4
<i>Olearia muelleri</i>	0.5	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Santalum spicatum</i>		

<i>Scaevola spinescens</i>	1.2	3
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**





Site Name: KOOL-179  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750928E 6580441N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Orange Brown (other)  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Grevillea zygoloba*  
 Mid Stratum 2: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207)  
 Lower Stratum 1: *Hibbertia eatoniae*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3.5	0.5
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	45
<i>Austrostipa nitida</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Banksia arborea</i> (P4)	5	5
<i>Brachychiton gregorii</i>	3	0.2
<i>Cheilanthes</i> ? <i>adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.7	0.2
<i>Drosera</i> ? <i>macrantha</i>		0.1
<i>Eremophila clarkei</i>	1.4	0.1
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	0.5
<i>Grevillea zygoloba</i>	2.2	2

<i>Hemigenia brachyphylla</i>	0.4	0.5
<i>Hibbertia eatoniae</i>	0.6	4
<i>Hibbertia exasperata</i>	0.9	0.2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	0.5
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.3	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.5	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.2	0.2
<i>Stenanthemum newbeyi</i> (P3)	1.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-180  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750564E 6580263N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Very Steep (37 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Banksia arborea*  
 Mid Stratum 2: *Eremophila clarkei*, *Grevillea zygaloba*, *Philothea brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*, *Olearia humilis*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	7	20
<i>Acacia tetragonophylla</i>	2.5	1
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	1.5	0.2
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Banksia arborea</i> (P4)	6	5
<i>Brachychiton gregorii</i>	1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.6	0.3
<i>Dodonaea inaequifolia</i>	3	1
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	2	5



<i>Eremophila serrulata</i>	1	0.2
<i>Eucalyptus longissima</i>	9	15
<i>Grevillea zygoloba</i>	1.8	3
<i>Hibbertia eatoniae</i>	0.5	0.5
<i>Hibbertia exasperata</i>	1	3
<i>Olearia humilis</i>	1	3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.5	0.2
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	0.5
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	2.5	2
<i>Scaevola spinescens</i>	1.2	0.5
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	0.5
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum lasiophyllum</i>	0.5	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.7	0.3

**PHOTO**

Site Name: KOOL-181  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750669E 6580216N  
 Community: 6  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Dolerite, >2% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus longicornis*

Mid Stratum 1: *Exocarpos aphyllus*

Lower Stratum 1: *Acacia erinacea*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1	5
<i>Amyema miquelii</i>	0	1
<i>Atriplex nummularia</i>	1.8	1
<i>Atriplex stipitata</i>	0.6	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	0.4	0.1
<i>Dodonaea stenozyga</i>	0.5	0.3
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1	0.1
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus corrugata</i>	10	10
<i>Eucalyptus longicornis</i>	15	20
<i>Exocarpos aphyllus</i>	2	5
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	1

<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.5
<i>Rhagodia drummondii</i>	0.3	0.3
<i>Scaevola spinescens</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.3	0.1
<i>Solanum nummularium</i>	0.3	0.1
<i>Zygophyllum apiculatum</i>	0.3	0.1
<i>Zygophyllum eremaeum</i>	0.2	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-182  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750808E 6580352N  
 Community: 6  
 Landform Type: Lower Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: SSE  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: Granite, >2% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Granite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Acacia erinacea*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.5	5
<i>Acacia tetragonophylla</i>	0.8	0.1
<i>Alyxia buxifolia</i>		
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa nitida</i>	0.3	0.1
<i>Austrostipa platychaeta</i>	0.6	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	1.3	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	0.2
<i>Dodonaea stenozyga</i>	1.2	0.3
<i>Eremophila interstans</i> subsp. <i>interstans</i>	1.8	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>		
<i>Eucalyptus corrugata</i>	9	25
<i>Exocarpos aphyllus</i>	1.4	0.5

<i>Maireana georgei</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Santalum spicatum</i>		
<i>Scaevola spinescens</i>	0.6	0.1
<i>Senna stowardii</i>		
<i>Thysanotus manglesianus</i>		0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Zygophyllum apiculatum</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-183  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750923E 6580241N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NW  
 Soil Type: Clay Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia caesaneura* (narrow phyllodes variant), *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Eremophila clarkei*, *Grevillea zygoloba*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*  
 Lower Stratum 1: *Prostanthera althoferi* subsp. *althoferi*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow phyllodes variant)	6	8
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	8
<i>Acacia tetragonophylla</i>	0.7	0.1
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Brachychiton gregorii</i>	3	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.8	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.2	1
<i>Eremophila clarkei</i>	1.5	1
<i>Grevillea zygoloba</i>	2	3



<i>Hibbertia eatoniae</i>	0.3	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	0.2
<i>Mirbelia microphylla</i>	0.6	0.1
<i>Olearia humilis</i>	0.5	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	5
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.8	2
<i>Rhyncharrhena linearis</i>		0.1
<i>Scaevola spinescens</i>	1.4	2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.9	0.1
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	1.1	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-184  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751406E 6580358N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 2: *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	4
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3.8	4
<i>Acacia tetragonophylla</i>	3	0.2
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	1.4	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Brachychiton gregorii</i>		
<i>Cheiranthra filifolia</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.2	2
<i>Eremophila alternifolia</i>	1	0.1
<i>Eremophila clarkei</i>	1.8	0.5
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	8	7
<i>Exocarpos aphyllus</i>	1	0.1

<i>Grevillea zygoloba</i>	1.8	0.1
<i>Olearia muelleri</i>		
<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	0.2
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.1	0.2
<i>Santalum spicatum</i>	0.7	0.1
<i>Scaevola spinescens</i>	1.2	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.4	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-185  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751473E 6580164N  
 Community: 13  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Orange Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*  
 Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207)  
 Lower Stratum 1: *Hemigenia brachyphylla*, *Hibbertia eatoniae*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	0.8	0.1
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.2	40
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.6	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.2
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Drosera ?macrantha</i>		0.1
<i>Grevillea zygoloba</i>	2.1	1
<i>Hemigenia brachyphylla</i>	0.7	0.2
<i>Hibbertia eatoniae</i>	0.5	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	0.5
<i>Malleostemon tuberculatus</i>	1.8	0.8
<i>Solanum cleistogamum</i>	0.2	0.1
<i>Solanum lasiophyllum</i>	0.4	0.1

<i>Stylidium dielsianum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-186  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751348E 6580202N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Red  
 Rock Outcrop: Laterite, 20-50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Grevillea zygaloba*  
 Lower Stratum 1: *Hibbertia exasperata*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philotheca brucei* subsp. *brucei*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow phyllodes variant)		
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	2.8	1
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)		
<i>Acacia tetragonophylla</i>		
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	60
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Drosera ?macrantha</i>		0.1
<i>Eucalyptus longissima</i>		
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	6	1



<i>Grevillea zygoloba</i>	2.3	1
<i>Hibbertia eatoniae</i>	0.7	2
<i>Hibbertia exasperata</i>	1	2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.3	1
<i>Mirbelia microphylla</i>	0.4	0.1
<i>Olearia humilis</i>	0.6	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.6	0.5
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.9	0.1
<i>Santalum spicatum</i>		
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	1	0.5
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-187  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 751064E 6580094N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Ironstone, >50% bedrock exposed  
 CF Abundance: >90%  
 Vegetation Condition: E - Excellent  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Eremophila clarkei*, *Grevillea zygoloba*, *Philotheca brucei* subsp. *brucei*

Lower Stratum 1: *Hibbertia exasperata*, *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow <i>phyllodes</i> variant)	4	0.5
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	8
<i>Acacia tetragonophylla</i>	2	0.5
<i>Austrostipa nitida</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.4	0.1
<i>Banksia arborea</i> (P4)	1.2	0.1
<i>Brachychiton gregorii</i>	4	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.2	0.1
<i>Comesperma integerrimum</i>		0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.9	0.2
<i>Dodonaea inaequifolia</i>	1.6	0.5
<i>Eremophila clarkei</i>	1.6	0.5
<i>Eucalyptus longissima</i>		
<i>Grevillea zygoloba</i>	2	4
<i>Hibbertia exasperata</i>	0.7	1
<i>Mirbelia microphylla</i>	0.5	0.1
<i>Olearia humilis</i>	0.7	1

<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	2
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.8	2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.11
<i>Santalum spicatum</i>	1.5	0.1
<i>Scaevola spinescens</i>		
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)		
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**



Site Name: KOOL-188  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 749960E 6580813N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Very Steep (37 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Philotheca brucei* subsp. *brucei*, *Santalum spicatum*  
 Lower Stratum 1: *Olearia pimeleoides*, *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	20
<i>Acacia tetragonophylla</i>	2	2
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cynoglossum australe</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Dodonaea inaequifolia</i>	3	10
<i>Eremophila clarkei</i>	1.5	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.5	0.1
* <i>Erodium aureum</i>		
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>		
<i>Maireana georgei</i>	0.2	0.2
<i>Olearia pimeleoides</i>	0.6	1

<i>Oxalis exilis</i>		
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Pittosporum angustifolium</i>	2.5	0.5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	2
<i>Rhagodia drummondii</i>	0.5	0.3
<i>Santalum spicatum</i>	3	2.5
<i>Scaevola spinescens</i>	1.5	1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3)	0.4	0.1

**PHOTO**

Site Name: KOOL-189  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750103E 6580147N  
 Community: 3  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus longicornis*  
 Mid Stratum 1: *Atriplex nummularia*, *Dodonaea stenozyga*, *Eremophila oppositifolia* subsp. *angustifolia*, *Exocarpos aphyllus*, *Santalum acuminatum*  
 Lower Stratum 1: *Acacia andrewsii*, *Acacia erinacea*, *Atriplex vesicaria*, *Olearia muelleri*, *Rhagodia drummondii*, *Scaevola spinescens*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia andrewsii</i>	0.5	0.2
<i>Acacia erinacea</i>	1	3
<i>Atriplex nummularia</i>	2	2
<i>Atriplex vesicaria</i>	0.6	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Dodonaea stenozyga</i>	2	7
<i>Eremophila alternifolia</i>		
<i>Eremophila ionantha</i>	2	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	1
<i>Eremophila scoparia</i>	1.6	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	9	2
<i>Eucalyptus corrugata</i>	15	13
<i>Eucalyptus longicornis</i>	18	10



<i>Exocarpos aphyllus</i>	2	1
<i>Halgania andromedifolia</i>	1.5	0.1
<i>Olearia muelleri</i>	0.5	1
<i>Rhagodia drummondii</i>	0.3	0.2
<i>Santalum acuminatum</i>	3	2.5
<i>Scaevola spinescens</i>	0.5	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	0.3
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-191  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750309E 6579819N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Rock Outcrop: Bif (other), 10-20% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Santalum spicatum*

Mid Stratum 1: *Dodonaea inaequifolia*, *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	15
<i>Acacia tetragonophylla</i>	5	8
<i>Alyogyne hakeifolia</i>		
<i>Alyxia buxifolia</i>	1	0.3
<i>Androcalva luteiflora</i>		
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Dodonaea inaequifolia</i>	2.5	5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila clarkei</i>	2	4
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.3
<i>Exocarpos aphyllus</i>	2	1
<i>Olearia humilis</i>	0.6	0.2
<i>Olearia pimeleoides</i>	1	1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.5
<i>Rhagodia drummondii</i>	1	0.3

<i>Santalum spicatum</i>	4	3
<i>Scaevola spinescens</i>	1.3	0.5
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2	1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-192  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750441E 6579835N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 2: *Dodonaea inaequifolia*, *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	15
<i>Banksia arborea</i> (P4)		
<i>Beyeria rostellata</i> (P1)	1.5	0.5
<i>Calandrinia calyptrata</i>	0.1	0.1
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Crassula</i> ? <i>tetramera</i>	0.1	0.1
<i>Cyanicula amplexans</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.7	0.5
<i>Dodonaea inaequifolia</i>	2.5	2
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	2	2
<i>Eremophila serrulata</i>	1	0.5
<i>Erodium cygnorum</i>	0.1	0.1

<i>Eucalyptus longissima</i>	10	1
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	10	20
<i>Hibbertia exasperata</i>	1	2
<i>Hydrocotyle rugulosa</i>	0.1	0.1
<i>Millotia myosotidifolia</i>	0.1	0.1
<i>Nicotiana rotundifolia</i>		
<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.5	4
<i>Phyllangium sulcatum</i>		
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1	2
<i>Pterostylis</i> sp. inland (A.C. Beaglehole 11880)	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.2
<i>Radyera farragei</i>		
<i>Rhagodia drummondii</i>	0.2	0.1
<i>Rhodanthe battii</i>		
<i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i>		
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	3.5	1
<i>Scaevola spinescens</i>	1	0.3
<i>Schoenia cassiniana</i>	0.1	0.1
<i>Senecio glossanthus</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.5	1
<i>Waitzia acuminata</i> var. <i>acuminata</i>		

**PHOTO**





Site Name: KOOL-193  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750422E 6580255N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Very Gently Inclined (1 degree)  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Banksia arborea*  
 Mid Stratum 1: *Eremophila clarkei*, *Grevillea zygaloba*, *Philotheca brucei* subsp. *brucei*  
 Lower Stratum 1: *Hibbertia exasperata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	8	20
<i>Acacia tetragonophylla</i>	1.3	0.3
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Banksia arborea</i> (P4)	9	8
<i>Beyeria rostellata</i> (P1)	1.8	0.3
<i>Calandrinia calyptrata</i>	0.1	0.1
<i>Calandrinia eremaea</i>	0.1	0.1
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Crassula ?tetramera</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	1	0.5
<i>Dodonaea inaequifolia</i>	2	2
<i>Eremophila clarkei</i>	2	6
<i>Eucalyptus longissima</i>	11	20
<i>Grevillea zygaloba</i>	3.5	8
<i>Hibbertia exasperata</i>	1	5
<i>Olearia humilis</i>	0.5	1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3

<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	3.5	2
<i>Scaevola spinescens</i>	1.2	1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	0.6	0.2

**PHOTO**

Site Name: KOOL-196  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750813E 6579998N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Banksia arborea*  
 Mid Stratum 1: *Dodonaea inaequifolia*, *Eremophila alternifolia*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	25
<i>Acacia tetragonophylla</i>	3	1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	6	4
<i>Brachychiton gregorii</i>	2.5	0.5
<i>Calandrinia calyptrata</i>	0.1	0.1
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Crassula ?tetramera</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.2
<i>Dodonaea inaequifolia</i>	2.5	5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila alternifolia</i>	2	3



<i>Eremophila clarkei</i>	2	1
<i>Hibbertia exasperata</i>	0.4	0.1
<i>Millotia myosotidifolia</i>	0.1	0.1
<i>Olearia humilis</i>	0.3	0.2
<i>Olearia pimeleoides</i>	0.4	0.1
<i>Parietaria cardiostegia</i>	0.1	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	3
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.3	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	2
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	4	1.5
<i>Scaevola spinescens</i>	1.5	2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2	2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum lasiophyllum</i>	0.4	0.2
<i>Stenopetalum filifolium</i>	0.3	0.1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-197  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751132E 6579941N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Very Steep (37 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Banksia arborea*  
 Lower Stratum 1: *Hibbertia eatoniae*, *Hibbertia exasperata*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Mirbelia microphylla*, *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	8
<i>Acacia tetragonophylla</i>	2	0.3
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	4.5	20
<i>Amyema miquelii</i>	0	0.2
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Banksia arborea</i> (P4)	6	2
<i>Beyeria rostellata</i> (P1)	0.6	1
<i>Brachychiton gregorii</i>	2.5	0.5
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Cyanicula amplexans</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1

<i>Dodonaea inaequifolia</i>	1	0.2
<i>Drosera ?macrantha</i>	0.2	0.1
<i>Eremophila clarkei</i>	1	0.5
<i>Eucalyptus longissima</i>	9	3
<i>Goodenia berardiana</i>		
<i>Grevillea zygaloba</i>	2	2
<i>Hibbertia eatoniae</i>	0.5	0.2
<i>Hibbertia exasperata</i>	1	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.3	4
<i>Mirbelia microphylla</i>	0.5	10
<i>Olearia humilis</i>	1	3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	5
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.3	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.5	1
<i>Santalum spicatum</i>		
<i>Scaevola spinescens</i>	1	0.2
<i>Schoenia cassiniana</i>	0.1	0.1
<i>Stenanthemum newbeyi</i> (P3)	1	0.5
<i>Thysanotus manglesianus</i>	0	0.1

**PHOTO**



Site Name: KOOL-198  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751263E 6579860N  
 Community: 11  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone, BIF, quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Eremophila clarkei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Acacia tetragonophylla</i>	2.3	0.2
<i>Amyema miquelii</i>		
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Dodonaea inaequifolia</i>	2.2	0.5
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.8	2
<i>Eremophila clarkei</i>	1.8	10
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.2	0.5
<i>Eucalyptus longissima</i>	12	20
<i>Exocarpos aphyllus</i>	0.5	0.1
<i>Grevillea zygodoba</i>	2.3	0.2
<i>Maireana georgei</i>	0.1	0.1

<i>Olearia humilis</i>	0.5	0.1
<i>Olearia muelleri</i>	0.5	0.1
<i>Olearia pimeleoides</i>	0.5	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	0.7
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Santalum spicatum</i>	2	1
<i>Scaevola spinescens</i>	1	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.6	1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Thysanotus ?manglesianus</i>	0	0.1

**PHOTO**

Site Name: KOOL-199  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751161E 6579803N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Eremophila clarkei*,  
*Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	12
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	0.7
<i>Austrostipa blackii</i> (P3)	0.1	0.1
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0.4	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	0.1
<i>Drosera</i> ? <i>macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	2	15
<i>Eucalyptus longissima</i>	10	5
<i>Grevillea zygoloba</i>	1.8	0.7
<i>Hibbertia exasperata</i>	0.6	0.1
<i>Lepidosperma ferricola</i> (P3)		



<i>Olearia humilis</i>	0.5	1
<i>Parietaria cardiostegia</i>	0.2	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	1
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.5	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1.5	2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	3	0.5
<i>Scaevola spinescens</i>	0.3	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.7	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.2
<i>Stenanthemum newbeyi</i> (P3)	0.6	0.1
<i>Thysanotus ?manglesianus</i>	0	0.1

**PHOTO**

Site Name: KOOL-200  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751008E 6579719N  
 Community: 14  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Melaleuca hamata*

Lower Stratum 1: *Eremophila serrulata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	6	20
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	4	8
<i>Austrostipa elegantissima</i>	0.6	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Drosera</i> ? <i>macrantha</i>	0.2	0.1
<i>Eremophila serrulata</i>	1.3	5
<i>Hemigenia brachyphylla</i>	0.5	0.2
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>	0.3	0.5
<i>Melaleuca hamata</i>	4.5	1
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.4	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	0.1
<i>Schoenia cassiniana</i>	0.1	0.1
<i>Solanum cleistogamum</i>	0.3	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1

**PHOTO**





Site Name: KOOL-202  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 750869E 6579374N  
 Community: 11  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Dodonaea inaequifolia*, *Eremophila clarkei*, *Philothea brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	15
<i>Acacia tetragonophylla</i>	2.5	2
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	0.3
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea inaequifolia</i>	1.8	3
<i>Eremophila clarkei</i>	1.8	2
<i>Eucalyptus ewartiana</i>	0	0.5
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	12	8
<i>Grevillea zygaloba</i>	2.5	2
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.8	3
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1.6	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhyncharrhena linearis</i>	0	0.1

<i>Scaevola spinescens</i>	1.6	0.2
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1
<i>Thysanotus ?manglesianus</i>	0	0.1

**PHOTO**

Site Name: KOOL-203  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 750890E 6579485N  
 Community: 9  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Acacia erinacea*, *Dodonaea microzyga* var. *acrolobata*, *Trymalium myrtillus*  
 subsp. *myrtillus*  
 Lower Stratum 1: *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.8	2
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	1
<i>Acacia tetragonophylla</i>	3	0.3
<i>Dodonaea inaequifolia</i>	1.8	0.2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.8	4
<i>Eremophila clarkei</i>	2	0.5
<i>Eremophila interstans</i> subsp. <i>interstans</i>	4	0.7
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.5	0.1
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	12	15
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	12	5
<i>Maireana georgei</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.7	0.2



<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2	0.3
<i>Thysanotus</i> ? <i>manglesianus</i>	0	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.8	2
<i>Zygophyllum apiculatum</i>		
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-204  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 751015E 6579524N  
 Community: 14  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina eriochlamys* subsp. *eriochlamys*

Lower Stratum 1: *Hemigenia brachyphylla*, *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	15
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	5	20
<i>Aristida contorta</i>	0.2	0.1
<i>Brachychiton gregorii</i>	4	1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	1	0.3
<i>Drosera</i> ? <i>macrantha</i>	0.3	0.1
<i>Hemigenia brachyphylla</i>	0.5	0.5
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	1	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.8	0.5
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.3	0.1

**PHOTO**





Site Name: KOOL-205  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 28/08/2013  
 GPS Location: GDA94 (Zone 50) 750962E 6579573N  
 Community: 11  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*, *Eucalyptus loxophleba* subsp. *lissophloia*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Melaleuca hamata*  
 Mid Stratum 2: *Dodonaea microzyga* var. *acrolobata*, *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*, *Prostanthera semiteres* subsp. *semiteres*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	5
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	1
<i>Acacia tetragonophylla</i>	0.7	0.1
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2	0.3
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1.5	5
<i>Eremophila clarkei</i>	2	3
<i>Eucalyptus longissima</i>	7	15
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7	10
<i>Grevillea zygoloba</i>	2	0.5
<i>Melaleuca hamata</i>	5	3

<i>Olearia humilis</i>	1	0.5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	2	5
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.3	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	5
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.2
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum lasiophyllum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-206  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 750650E 6579637N  
 Community: 14  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Dolerite, Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Melaleuca hamata*  
 Lower Stratum 1: *Prostanthera semiteres* subsp. *semiteres*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	8	6
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	8
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	4	60
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.2
<i>Drosera</i> ? <i>macrantha</i>	0.1	0.1
<i>Eremophila clarkei</i>	0.2	0.1
<i>Erodium cygnorum</i>	0.1	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1	0.5
<i>Melaleuca hamata</i>	4.5	2.5
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	1	2
<i>Solanum cleistogamum</i>	0.3	0.1
<i>Solanum lasiophyllum</i>	0.3	0.1



<i>Stenanthemum newbeyi</i> (P3)	0.5	0.2
----------------------------------	-----	-----

**PHOTO**



Site Name: KOOL-207  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 741239E 6587185N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Dodonaea viscosa* subsp. *angustissima*  
 Lower Stratum 1: *Acacia merrallii*, *Exocarpos aphyllus*, *Senna artemisioides* subsp. *filifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia enervia</i> subsp. <i>explicata</i>	4	10
<i>Acacia jennerae</i>	0.6	0.1
<i>Acacia merrallii</i>	1.5	3
<i>Atriplex nummularia</i>	0.4	0.1
<i>Atriplex stipitata</i>	0.5	0.3
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.3	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	2.5	8
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.4	0.1
<i>Eremophila scoparia</i>	1.5	0.5
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus corrugata</i>	10	15
<i>Exocarpos aphyllus</i>	1.8	3
<i>Maireana trichoptera</i>	0.2	0.4
<i>Olearia muelleri</i>	0.3	0.1
<i>Pittosporum angustifolium</i>	2.5	0.5
<i>Ptilotus holosericeus</i>	0.1	0.1

<i>Rhagodia drummondii</i>	0.5	0.2
<i>Santalum acuminatum</i>	2.5	1.5
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.3	3
<i>Templetonia smithiana</i>	1.7	1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**



Site Name: KOOL-208  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 741700E 6586998N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Grevillea zygaloba*, *Philothea brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	8
<i>Alyxia buxifolia</i>	1	0.2
<i>Brachychiton gregorii</i>	4	3
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Crassula</i> ? <i>tetramera</i>	0.1	0.1
<i>Daucus glochidiatus</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	0.5	0.1
<i>Eremophila clarkei</i>	1.5	0.5
<i>Eremophila serrulata</i>	0.5	0.2
<i>Goodenia berardiana</i>	0.1	0.1
<i>Grevillea zygaloba</i>	2.5	6
<i>Hibbertia exasperata</i>	1	1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.8	1
<i>Mirbelia microphylla</i>	0.7	0.2
<i>Olearia humilis</i>	0.5	2

<i>Parietaria cardiostegia</i>	0.1	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.8	8
<i>Plantago debilis</i>	0.1	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.5	0.2
<i>Rhodanthe battii</i>	0.1	0.1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	4	0.5
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-209  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 741862E 6586802N  
 Community: 11  
 Landform Type: Crest  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone, BIF (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Grevillea zygoloba*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207)  
 Lower Stratum 1: *Hibbertia exasperata*, *Mirbelia microphylla*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	10
<i>Acacia tetragonophylla</i>	4	2
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4	10
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	1.5	0.5
<i>Eremophila clarkei</i>	1.5	0.2
<i>Eremophila metallicorum</i>	1	1
<i>Eremophila serrulata</i>	1	1
<i>Grevillea zygoloba</i>	2.5	8
<i>Hibbertia exasperata</i>	1	2
<i>Hydrocotyle rugulosa</i>	0.1	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	3
<i>Mirbelia microphylla</i>	1	2



<i>Olearia humilis</i>	0.5	0.5
<i>Parietaria cardiostegia</i>	0.1	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	1
<i>Prostanthera grylloana</i>		
<i>Rhodanthe battii</i>	0.1	0.1
<i>Rhyncharrhena linearis</i>	0	0.1
<i>Santalum spicatum</i>	4	1
<i>Scaevola spinescens</i>	1	0.5
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.3	0.1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-212  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 741421E 6586599N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila caperata*, *Eremophila ionantha*,  
*Eremophila scoparia*, *Exocarpos aphyllus*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Alyxia buxifolia</i>	0.4	0.1
<i>Atriplex nummularia</i>	1.6	2.5
<i>Atriplex vesicaria</i>	0.6	1
<i>Austrostipa elegantissima</i>	0.3	0.2
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	1.6	0.2
<i>Eremophila caperata</i>	2.5	8
<i>Eremophila ionantha</i>	1.5	8
<i>Eremophila scoparia</i>	1.5	6
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus longicornis</i>	28	15
<i>Exocarpos aphyllus</i>	1.8	2.5
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.2
<i>Scaevola spinescens</i>	1	0.3
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	1
<i>Solanum nummularium</i>	0.5	0.1

**PHOTO**





Site Name: KOOL-214  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 742290E 6584710N  
 Community: 10  
 Landform Type: Simple Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Clayey Sand (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Eremophila granitica*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia jennerae</i>	1.5	0.1
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3.5	4
<i>Acacia tetragonophylla</i>	1.7	0.1
<i>Aristida contorta</i>	0.1	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1.4	0.3
<i>Eremophila granitica</i>	1.6	4
<i>Eucalyptus longissima</i>	7	20
<i>Exocarpos aphyllus</i>	1.6	0.3
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.8	0.1
<i>Ptilotus divaricatus</i>	0.3	0.1

<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	0.5
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Rhyncharrhena linearis</i>		0.1
<i>Scaevola spinescens</i>	0.3	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.9	1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.1	0.1

**PHOTO**

Site Name: KOOL-215  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742052E 6585172N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.8	0.5
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Austrostipa elegantissima</i>	0.4	0.1
* <i>Carrichtera annua</i>	0.1	0.1
<i>Chenopodium curvispicatum</i>	0.3	0.1
? <i>Enchylaena x Maireana georgei</i>	0.5	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	5	0.6
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	0.2
<i>Eremophila scoparia</i>	1.5	1.5
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus salubris</i>	15	30
<i>Euphorbia philochalix</i>	0.1	0.1
<i>Exocarpos aphyllus</i>	0.4	0.1
<i>Maireana georgei</i>	0.3	0.1



<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.2
<i>Maireana triptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Santalum acuminatum</i>	1.8	0.1
<i>Scaevola spinescens</i>	0.2	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum nummularium</i>	0.1	0.1
<i>Zygophyllum eremaeum</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-216  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 742021E 6585290N  
 Community: 6  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Sandy clay (other)  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus yilgarnensis*  
 Upper Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*  
 Mid Stratum 1: *Atriplex nummularia*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.9	0.2
<i>Acacia tetragonophylla</i>	1.2	0.1
<i>Aristida contorta</i>	0.1	0.1
<i>Atriplex nummularia</i>	1.3	0.5
<i>Atriplex vesicaria</i>	0.3	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa nitida</i>	0.2	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	0.2
<i>Eriochiton sclerolaenoides</i>	0.2	0.1
<i>Eucalyptus corrugata</i>	11	3.5
<i>Eucalyptus yilgarnensis</i>	10	3.5
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1

<i>Olearia muelleri</i>	0.6	0.4
<i>Olearia pimeleoides</i>	0.6	0.2
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.2	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.3
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Rytidosperma caespitosum</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Sclerolaena fusiformis</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.6	0.2
<i>Solanum cleistogamum</i>	0.1	0.1

**PHOTO**



Site Name:	KOOL-217
Site Type:	QUADRAT
Dimensions:	20m x 20m
Survey Date:	20/09/2013
GPS Location:	GDA94 (Zone 50) 742753E 6584865N
Community:	8
Landform Type:	Simple Slope
Slope Class:	Gently Inclined (3 degrees)
Aspect:	SW
Soil Type:	Sandy clay (other)
Soil Colour:	Red
Rock Outcrop:	No bedrock exposed
CF Abundance:	>90%
CF Sizes:	2-6mm, 6-20mm, 20-60mm
CF Types:	Ironstone, Quartz (other)
Vegetation Condition:	VG - Very Good
Disturbance:	Limited Clearing, Mining, Previously cleared scrape lines, compaction (other)
Fire:	>5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1:	<i>Eucalyptus longissima</i>
Upper Stratum 2:	<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>
Mid Stratum 1:	<i>Atriplex nummularia</i> , <i>Scaevola spinescens</i>

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	12
<i>Acacia tetragonophylla</i>	1.4	0.1
<i>Atriplex nummularia</i>	2	1.5
<i>Atriplex stipitata</i>	0.6	0.1
<i>Dodonaea inaequifolia</i>	0.7	0.1
<i>Eucalyptus longissima</i>	5	1
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>	6	3
<i>Scaevola spinescens</i>	1.2	0.8
<i>Sclerolaena fusiformis</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	0.1

**PHOTO**



Site Name: KOOL-218  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 743512E 6584411N  
 Community: 8  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Dodonaea inaequifolia*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3.5	40
<i>Dodonaea inaequifolia</i>	1.8	2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	8	1.5
<i>Exocarpos aphyllus</i>	2	0.6
<i>Grevillea zygoloba</i>	1.2	0.5
<i>Scaevola spinescens</i>	0.3	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-223  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 744637E 6584005N  
 Community: 1  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus transcontinentalis*, *Eucalyptus vittata*  
 Mid Stratum 1: *Eremophila caperata*  
 Mid Stratum 2: *Eremophila oppositifolia* subsp. *angustifolia*, *Exocarpos aphyllus*, *Scaevola spinescens*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus*, *Rhagodia drummondii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.8	0.5
<i>Acacia jennerae</i>		
<i>Alyxia buxifolia</i>	1	0.1
<i>Atriplex nummularia</i>	1.2	1.5
<i>Atriplex vesicaria</i>	0.4	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Eremophila caperata</i>	2.5	1.5
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1	0.3
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.8	1
<i>Eucalyptus transcontinentalis</i>	20	10
<i>Eucalyptus vittata</i>	10	15
<i>Exocarpos aphyllus</i>	2	1
<i>Maireana georgei</i>	0.2	0.1

<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.3
<i>Rhagodia drummondii</i>	0.4	0.5
<i>Scaevola spinescens</i>	1.1	1.5
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.8	0.5

**PHOTO**



Site Name: KOOL-226  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 18/09/2013  
 GPS Location: GDA94 (Zone 50) 744523E 6586706N  
 Community: 6  
 Landform Type: Low rise (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Mid Stratum 1: *Acacia erinacea*  
 Lower Stratum 1: *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia erinacea</i>	1.5	8
<i>Atriplex vesicaria</i>	0.5	0.2
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	12	30
<i>Exocarpos aphyllus</i>	2	1
<i>Olearia muelleri</i>	0.6	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.5
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	2.5	1.5
<i>Zygophyllum ovatum</i>	0.1	0.1

#### **PHOTO**



Site Name: KOOL-227  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 744808E 6586470N  
 Community: 2  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*

Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1	1
<i>Atriplex vesicaria</i>	0.5	2.5
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	6	5
<i>Eucalyptus ravida</i>	8	40
<i>Lawrencia diffusa</i>	0.1	0.1
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.1	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.2	0.2
<i>Sclerolaena fusiformis</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-228  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 17/09/2013  
 GPS Location: GDA94 (Zone 50) 746333E 6584300N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Old vehicle tracks in area (other)  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus salmonophloia*  
 Upper Stratum 2: *Santalum acuminatum*  
 Mid Stratum 1: *Acacia erinacea*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.5	4
<i>Atriplex nummularia</i>	1.5	1
<i>Atriplex vesicaria</i>	0.5	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Eremophila ionantha</i>	1.6	0.6
<i>Eremophila scoparia</i>	1.2	2
<i>Eucalyptus longicornis</i>	15	20
<i>Eucalyptus salmonophloia</i>	13	15
<i>Exocarpos aphyllus</i>	1.8	0.5
<i>Maireana trichoptera</i>	0.1	0.2
<i>Olearia muelleri</i>	0.5	1
<i>Santalum acuminatum</i>	2.2	5
<i>Sclerolaena diacantha</i>	0.1	0.3

<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5	0.2
--	-----	-----

**PHOTO**





Site Name: KOOL-229  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 748020E 6583786N  
 Community: 10  
 Landform Type: Drainage flat (other)  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Granite, >2% bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Eremophila oppositifolia* subsp. *angustifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.8	0.3
<i>Acacia tetragonophylla</i>	4	20
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.5	10
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.2	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	10
<i>Maireana trichoptera</i>	0.1	0.1
<i>Maireana triptera</i>		
<i>Olearia muelleri</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.3	0.2
<i>Pittosporum angustifolium</i>	3	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.3
<i>Rhagodia drummondii</i>	0.4	0.2
<i>Scaevola spinescens</i>	1.2	1.5
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.3	0.3
<i>Solanum nummularium</i>	0.2	0.2

**PHOTO**



Site Name: KOOL-230  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749713E 6582999N  
 Community: 7  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Calcrete/Slate Photo: 643 (other), >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Calcrete/slate (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Allocasuarina helmsii*  
 Mid Stratum 1: *Dodonaea stenozyga*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dissona</i> var. <i>indoloria</i> (P3)	2.2	0.5
<i>Allocasuarina helmsii</i>	4	40
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	1.5	0.2
<i>Dodonaea stenozyga</i>	1.8	15
<i>Eucalyptus corrugata</i>	11	6
<i>Eucalyptus longissima</i>	11	3
<i>Olearia muelleri</i>	0.5	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Santalum spicatum</i>	3	0.6
<i>Scaevola spinescens</i>	0.5	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	2	0.4

**PHOTO**





Site Name: KOOL-231  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 750146E 6582652N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Orange  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Granite, Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*, *Eucalyptus yilgarnensis*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Atriplex nummularia*, *Dodonaea stenozyga*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dissona</i> var. <i>indoloria</i> (P3)	0.6	0.1
<i>Acacia tetragonophylla</i>	0.2	0.1
<i>Atriplex nummularia</i>	1.8	5
<i>Atriplex vesicaria</i>	0.7	0.3
<i>Austrostipa platychaeta</i>	0.5	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea stenozyga</i>	1.4	3
? <i>Enchylaena</i> x <i>Maireana georgei</i>	0.2	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3	6
<i>Eremophila scoparia</i>	1.2	0.3
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	12	8
<i>Eucalyptus yilgarnensis</i>	12	7
<i>Olearia muelleri</i>	0.5	0.2
<i>Rhagodia drummondii</i>	0.2	0.1

<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**





Site Name: KOOL-232  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750145E 6580837N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Bif (other), 20-50% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia caesaneura* (narrow phyllodes variant), *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Eremophila clarkei*, *Grevillea zygoloba*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*, *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia caesaneura</i> (narrow phyllodes variant)	8	30
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4.5	5
<i>Acacia tetragonophylla</i>	3	2
<i>Aristida contorta</i>	0.2	0.1
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Banksia arborea</i> (P4)	5	1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.2
<i>Dodonaea inaequifolia</i>	2	3
<i>Eremophila alternifolia</i>	2	1
<i>Eremophila clarkei</i>	2	8
<i>Eremophila serrulata</i>	0.5	0.2
<i>Grevillea zygoloba</i>	2	3

<i>Maireana georgei</i>	0.2	0.1
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1
<i>Rhagodia drummondii</i>	1	0.1
<i>Scaevola spinescens</i>	1.5	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	3	3
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.3	0.1
<i>Solanum cleistogamum</i>	0.3	0.2
<i>Solanum lasiophyllum</i>	0.2	0.1
<i>Trachymene pilosa</i>		

**PHOTO**

Site Name: KOOL-233  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 748807E 6581072N  
 Community: 4  
 Landform Type: Drainage flat (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*, *Eucalyptus yilgarnensis*  
 Mid Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*, *Eremophila saligna*  
 Lower Stratum 1: *Acacia erinacea*, *Atriplex nummularia*, *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	0.4	0.2
<i>Acacia erinacea</i>	0.4	4
<i>Acacia tetragonophylla</i>	2.5	1
<i>Alyxia buxifolia</i>	2	2
<i>Atriplex nummularia</i>	1.3	1
<i>Atriplex vesicaria</i>	1	1
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Daviesia scoparia</i>	2.5	1
<i>Dodonaea inaequifolia</i>	2.5	0.5
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	0.3
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	4
<i>Eremophila saligna</i>	5	2
<i>Eucalyptus ravida</i>	10	8
<i>Eucalyptus yilgarnensis</i>	11	35
<i>Exocarpos aphyllus</i>	1.5	0.5
<i>Grevillea acuaria</i>	1	0.5
<i>Pittosporum angustifolium</i>	1.7	0.1



<i>Rhagodia drummondii</i>	0.4	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.5	2

**PHOTO**

Site Name: KOOL-234  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 747982E 6581705N  
 Community: 10  
 Landform Type: Low rise/ridge (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Santalum spicatum*,  
*Scaevola spinescens*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	10
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2.5	0.5
<i>Acacia tetragonophylla</i>	2	1
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	1.6	0.2
<i>Alyxia buxifolia</i>	1.5	0.3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma integerrimum</i>	0	0.1
<i>Dodonaea inaequifolia</i>	2.2	1.5
<i>Drosera ?macrantha</i>	0	0.1
<i>Eremophila clarkei</i>	1.3	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1	0.2
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.2	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.2	0.1

<i>Rhagodia drummondii</i>	0.5	0.1
<i>Santalum spicatum</i>	2	1
<i>Scaevola spinescens</i>	1.3	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.2	1
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Solanum cleistogamum</i>	0.2	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-235  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 748132E 6582853N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: Ironstone, 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*

Mid Stratum 1: *Eremophila clarkei*, *Hibbertia exasperata*, *Philotheca brucei* subsp. *brucei*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	3	10
<i>Acacia tetragonophylla</i>	1.8	0.3
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	2.5	15
<i>Alyxia buxifolia</i>	1.8	0.5
<i>Beyeria rostellata</i> (P1)	0.5	0.1
<i>Brachychiton gregorii</i>	2	0.3
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	1	0.2
<i>Eremophila clarkei</i>	1.5	2
<i>Grevillea zygoloba</i>	2.2	2
<i>Hibbertia exasperata</i>	1	8
<i>Lepidosperma ferricola</i> (P3)	0.3	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.6	0.1
<i>Melaleuca leiocarpa</i>	1.5	0.2
<i>Olearia humilis</i>	0.3	0.1

<i>Olearia pimeleoides</i>	0.3	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.2	3
<i>Pleurosorus rutifolius</i>	0.1	0.1
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.6	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.4	0.1
<i>Santalum spicatum</i>	1.2	0.2
<i>Scaevola spinescens</i>	0.5	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Thysanotus manglesianus</i>	0	0.1
<i>Xerolirion divaricata</i>	0.4	0.5

**PHOTO**

Site Name: KOOL-236  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 746406E 6583575N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: NE  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: Ironstone, >2% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 Vegetation Condition: E - Excellent  
 Fire: >5

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia incurvaneura*, *Acacia* sp. Mt Jackson (B. Ryan 176)  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philothea brucei* subsp. *brucei*  
 Lower Stratum 1: *Prostanthera althoferi* subsp. *althoferi*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia coolgardiensis</i>	1.8	1
<i>Acacia incurvaneura</i>	4	13
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	15
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	1.8	2
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Brachychiton gregorii</i>	2	0.2
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.2	0.3
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	0.1
<i>Drosera ?macrantha</i>	0	0.1
<i>Eremophila granitica</i>	1.5	0.5
<i>Grevillea zygoloba</i>	1.5	0.2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.4	0.1
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	7
<i>Monachather paradoxus</i>	0.2	0.1
<i>Olearia humilis</i>	0.3	0.5
<i>Philothea brucei</i> subsp. <i>brucei</i>	1.5	6



<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.6	2
<i>Santalum spicatum</i>	1.5	0.2
<i>Scaevola spinescens</i>	1.5	0.2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.2	0.1
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.2	0.1

**PHOTO**

Site Name: KOOL-238  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749620E 6581640N  
 Community: 11  
 Landform Type: Low Ridge (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Orange Brown (other)  
 Rock Outcrop: Laterite, 20-50% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Melaleuca leiocarpa*

Mid Stratum 1: *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philotheca brucei* subsp. *brucei*

Lower Stratum 1: *Hibbertia eatoniae*, *Prostanthera althoferi* subsp. *althoferi*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	2.5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	5	20
<i>Alyxia buxifolia</i>	1.8	0.1
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.8	0.1
<i>Dodonaea inaequifolia</i>	0.8	0.1
<i>Drosera ?macrantha</i>		0.1
<i>Eremophila clarkei</i>	1.9	0.1
<i>Grevillea zygaloba</i>	1.5	0.3
<i>Hibbertia eatoniae</i>	0.7	1

<i>Hibbertia exasperata</i>	1.1	0.1
<i>Lepidosperma ferricola</i> (P3)	0.4	0.2
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.5	2
<i>Melaleuca leiocarpa</i>	3	3
<i>Mirbelia microphylla</i>	1	0.4
<i>Olearia humilis</i>	0.9	0.3
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	0.8
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.7	1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Xerolirion divaricata</i>	0.5	0.5

**PHOTO**



Site Name: KOOL-239  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 749523E 6581787N  
 Community: 10  
 Landform Type: Mid Slope of Low Ridge (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Mid Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla*, *Dodonaea inaequifolia*  
 Mid Stratum 2: *Eremophila clarkei*, *Philotheca brucei* subsp. *brucei*, *Scaevola spinescens*  
 Lower Stratum 1: *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	6
<i>Acacia tetragonophylla</i>	3.5	4
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	2.5	2
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila clarkei</i>	1.8	0.4
<i>Eucalyptus longissima</i>	9	5
<i>Exocarpos aphyllus</i>	1.9	0.2
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia pimeleoides</i>	0.8	0.1
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	1

<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.2
<i>Rhagodia drummondii</i>	0.5	0.1
<i>Santalum spicatum</i>	3	0.1
<i>Scaevola spinescens</i>	1.3	1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.1

**PHOTO**

Site Name: KOOL-240  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 30/08/2013  
 GPS Location: GDA94 (Zone 50) 749061E 6583288N  
 Community: 1  
 Landform Type: Simple Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus corrugata*  
 Upper Stratum 2: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 1: *Acacia erinacea*, *Atriplex nummularia*, *Scaevola spinescens*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	1.2	7
<i>Atriplex nummularia</i>	1.8	10
<i>Atriplex vesicaria</i>	0.7	2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea inaequifolia</i>	0.4	0.1
? <i>Enchylaena x Maireana georgei</i>	0.3	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	3.5	5
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus corrugata</i>	8	8
<i>Exocarpos aphyllus</i>	1.8	2
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.6	2
<i>Ptilotus holosericeus</i>	0.1	0.1



<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.6	0.1
<i>Scaevola spinescens</i>	1.2	8
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.4	0.1
<i>Solanum nummularium</i>	0.3	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-241  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 29/08/2013  
 GPS Location: GDA94 (Zone 50) 749665E 6582883N  
 Community: 15  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Granite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Eucalyptus ewartiana*

Lower Stratum 1: *Hybanthus floribundus* subsp. *curvifolius*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	30
<i>Allocasuarina helmsii</i>	5	0.6
<i>Austrostipa blackii</i> (P3)	0.2	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cheiranthra filifolia</i>	0.5	0.1
<i>Drosera ?macrantha</i>	0	0.1
<i>Eucalyptus ewartiana</i>	5	4
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>	0.5	1
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	0.2	0.1

**PHOTO**





Site Name: KOOL-244  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 750837E 6581186N  
 Community: 9  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: ENE  
 Soil Type: Clay Loam  
 Soil Colour: Orange Red (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Eremophila clarkei*, *Scaevola spinescens*, *Trymalium myrtillus* subsp. *myrtillus*  
 Lower Stratum 1: *Dodonaea microzyga* var. *acrolobata*, *Olearia muelleri*, *Prostanthera semiteres* subsp. *semiteres*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	0.8
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	3
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	0.8	0.5
<i>Eremophila clarkei</i>	1.9	0.5
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	0.2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7	20
<i>Grevillea zygaloba</i>	1.9	0.3
<i>Olearia muelleri</i>	0.5	0.2
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.9	0.4
<i>Rhyncharrhena linearis</i>		0.1
<i>Santalum spicatum</i>	2.1	0.3
<i>Scaevola spinescens</i>	1.2	0.5

<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.7	0.2
<i>Thysanotus manglesianus</i>		0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1.9	0.5

**PHOTO**

Site Name: KOOL-270  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 749069E 6581112N  
 Community: 2  
 Landform Type: Lower slope gully (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida*  
 Lower Stratum 1: *Acacia andrewsii*, *Acacia erinacea*, *Maireana georgei*, *Olearia muelleri*,  
*Trymalium myrtillus* subsp. *myrtillus*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia andrewsii</i>	1.5	0.5
<i>Acacia erinacea</i>	0.4	0.2
<i>Atriplex nummularia</i>	1.5	0.5
<i>Atriplex vesicaria</i>	0.4	0.1
<i>Calandrinia calyptrata</i>	0.1	0.1
<i>Calandrinia</i> sp.	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Daucus glochidiatus</i>	0.1	0.1
<i>Enchylaena lanata</i>	0.2	0.1
<i>Eremophila clarkei</i>	1	0.2
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	8	3
<i>Eucalyptus ravida</i>	12	20
<i>Hydrocotyle rugulosa</i>	0.1	0.1
<i>Lawrencia diffusa</i>	0.1	0.1
<i>Maireana georgei</i>	0.6	0.2
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.3	0.1



<i>Maireana trichoptera</i>	0.3	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Olearia pimeleoides</i>	0.5	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Plantago debilis</i>	0.1	0.1
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Sclerolaena diacantha</i>	0.3	0.1
<i>Sclerolaena fusiformis</i>	0.3	0.1
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1	0.4
* <i>Vulpia myuros</i> forma <i>myuros</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-271  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 748902E 6581581N  
 Community: 4  
 Landform Type: Upper Slope  
 Slope Class: Very Steep (37 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Brown  
 Rock Outcrop: Laterised Ironstone (other), 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm  
 CF Types: Laterised ironstone (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus capillosa*  
 Mid Stratum 1: *Alyxia buxifolia*, *Eremophila oppositifolia* subsp. *angustifolia*  
 Lower Stratum 1: *Acacia erinacea*, *Grevillea acuaria*, *Olearia pimeleoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.4	0.5
<i>Acacia tetragonophylla</i>	0.2	0.1
<i>Alyxia buxifolia</i>	2	3
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	3
<i>Eucalyptus capillosa</i>	12	30
<i>Exocarpos aphyllus</i>	2	0.3
<i>Grevillea acuaria</i>	1	2
<i>Maireana georgei</i>	0.2	0.1
<i>Olearia muelleri</i>	0.4	0.1
<i>Olearia pimeleoides</i>	0.5	0.2
<i>Rhagodia drummondii</i>	0.1	0.1
<i>Rytidosperma caespitosum</i>	0.2	0.1

**PHOTO**



Site Name: KOOL-272  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 748669E 6581507N  
 Community: 4  
 Landform Type: Minor drainage line (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Eremophila oppositifolia* subsp. *angustifolia*, *Exocarpos aphyllus*, *Santalum spicatum*  
 Mid Stratum 2: *Acacia andrewsii*, *Acacia erinacea*, *Dodonaea stenozyga*  
 Lower Stratum 1: *Grevillea acuaria*, *Olearia muelleri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia andrewsii</i>	1.7	1
<i>Acacia erinacea</i>	1.2	1
<i>Alyxia buxifolia</i>	1	0.3
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.2	0.1
<i>Dodonaea stenozyga</i>	1.2	1.5
<i>Eremophila ionantha</i>	1.5	1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	2.5	2
<i>Eucalyptus salubris</i>	12	20
<i>Exocarpos aphyllus</i>	3	3
<i>Grevillea acuaria</i>	0.6	0.5
<i>Halgania andromedifolia</i>	1.2	1
<i>Lysiana casuarinae</i>	0	0.1



<i>Maireana georgei</i>	0.2	0.1
<i>Olearia muelleri</i>	0.5	3
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	0.1
<i>Rhagodia drummondii</i>	0.4	0.2
<i>Santalum spicatum</i>	2.2	4
<i>Scaevola spinescens</i>	0.5	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Zygophyllum apiculatum</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-273  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 748124E 6582383N  
 Community: 6  
 Landform Type: Lower Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SW  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravidata*, *Eucalyptus vittata*  
 Mid Stratum 1: *Eremophila interstans* subsp. *interstans*  
 Mid Stratum 2: *Acacia merrallii*, *Halgania andromedifolia*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia erinacea</i>	0.6	0.2
<i>Acacia merrallii</i>	1.8	2
<i>Dodonaea stenozyga</i>	0.3	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	4	2.5
<i>Eremophila saligna</i>	1.8	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7	1.5
<i>Eucalyptus ravidata</i>	10	60
<i>Eucalyptus vittata</i>	8	1.5
<i>Exocarpos aphyllus</i>	0.7	0.1
<i>Halgania andromedifolia</i>	1.2	25
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.5	0.5
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Templetonia ceracea</i>	0.4	0.1

<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	1	0.2
--	---	-----

**PHOTO**



Site Name: KOOL-274  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 741626E 6586894N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Acacia* sp. Mt Jackson (B. Ryan 176)Mid Stratum 1: *Dodonaea inaequifolia***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	5	30
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2.5	0.5
<i>Acacia tetragonophylla</i>	3.5	3
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	2.5	10
<i>Eremophila metallicorum</i>	1.5	0.5
<i>Eremophila serrulata</i>	0.5	0.5
<i>Grevillea zygoloba</i>	1	0.5
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1.5	3
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>	0.8	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.3	1
<i>Santalum spicatum</i>	4	2
<i>Scaevola spinescens</i>	1.5	2
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	0.3	0.1
<i>Solanum cleistogamum</i>	0.1	0.1
<i>Solanum lasiophyllum</i>	0.2	0.1



**PHOTO**



Site Name: KOOL-275  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 19/09/2013  
 GPS Location: GDA94 (Zone 50) 742560E 6587339N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: Dust, soil runoff (other)  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salubris*  
 Mid Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 2: *Atriplex nummularia*, *Rhagodia drummondii*, *Senna artemisioides* subsp. *filifolia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Ptilotus obovatus* var. *obovatus*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5	6
<i>Acacia tetragonophylla</i>	1.2	0.3
<i>Atriplex nummularia</i>	1.5	3
<i>Atriplex stipitata</i>	0.5	0.1
<i>Atriplex vesicaria</i>	0.5	3
<i>Austrostipa elegantissima</i>	0.4	0.3
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.4	0.2
<i>Cephalopterum drummondii</i>	0.1	0.1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	0.8	0.3
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.8	0.3
<i>Eremophila ionantha</i>	1.8	3
<i>Eremophila scoparia</i>	1.5	0.5
<i>Eriochiton sclerolaenoides</i>	0.1	0.1

* <i>Erodium cicutarium</i>	0.1	0.1
<i>Erodium cygnorum</i>	0.1	0.1
<i>Eucalyptus salubris</i>	14	15
<i>Exocarpos aphyllus</i>	2	1.5
<i>Maireana carnosa</i>	0.1	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.2
<i>Maireana trichoptera</i>	0.2	0.3
<i>Olearia muelleri</i>	0.3	0.2
<i>Olearia pimeleoides</i>	1.2	0.2
<i>Pittosporum angustifolium</i>	2	0.3
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5	3
<i>Rhagodia drummondii</i>	1.5	1
<i>Rytidosperma caespitosum</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1.5	8
<i>Solanum nummularium</i>	0.3	0.1

**PHOTO**

Site Name: KOOL-276  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 744682E 6587180N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Level (0 degrees)  
 Soil Type: Light Clay  
 Soil Colour: Red  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila ionantha*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.6	1.8
<i>Atriplex vesicaria</i>	0.7	1.5
<i>Austrostipa elegantissima</i>	0.5	0.2
<i>Eremophila ionantha</i>	1.2	4
<i>Eremophila scoparia</i>	1.2	2
<i>Eriochiton sclerolaenoides</i>	0.1	0.1
<i>Eucalyptus salmonophloia</i>	24	20
<i>Exocarpos aphyllus</i>	1.2	0.5
<i>Maireana trichoptera</i>	0.2	0.2
<i>Olearia muelleri</i>	0.5	0.5
<i>Ptilotus holosericeus</i>	0.1	0.1
<i>Santalum acuminatum</i>	2.5	1
<i>Sclerolaena diacantha</i>	0.2	0.2
<i>Solanum nummularium</i>	0.2	0.1
<i>Zygophyllum ovatum</i>	0.1	0.1

#### **PHOTO**





Site Name: KOOL-277  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 744987E 6586327N  
 Community: 8  
 Landform Type: Low rocky rise (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Allocasuarina acutivalvis* subsp. *acutivalvis*  
 Mid Stratum 1: *Acacia andrewsii*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia andrewsii</i>	1	0.5
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4.5	30
<i>Acacia tetragonophylla</i>	3	5
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	4.5	5
<i>Dodonaea inaequifolia</i>	1	0.2
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	3	1
<i>Exocarpos aphyllus</i>	0.4	0.1
<i>Scaevola spinescens</i>	0.1	0.1

#### **PHOTO**



Site Name: KOOL-278  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 748190E 6582217N  
 Community: 2  
 Landform Type: Flat  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*  
 Mid Stratum 1: *Atriplex nummularia*  
 Lower Stratum 1: *Atriplex vesicaria*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.6	2
<i>Atriplex vesicaria</i>	0.6	2
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Enchylaena lanata</i>	0.2	0.1
<i>Eucalyptus ravida</i>	10	40
<i>Maireana trichoptera</i>	0.2	0.1
<i>Rhagodia drummondii</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Templetonia ceracea</i>	1	0.5

#### **PHOTO**





Site Name: KOOL-279  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 21/09/2013  
 GPS Location: GDA94 (Zone 50) 745933E 6583999N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Light Clay  
 Soil Colour: Light brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Dolerite, Ironstone  
 Vegetation Condition: E - Excellent  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longissima*  
 Upper Stratum 2: *Acacia coolgardiensis*  
 Mid Stratum 1: *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Grevillea zygoloba*  
 Lower Stratum 1: *Hibbertia lepidocalyx* subsp. *tuberculata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia coolgardiensis</i>	5	5
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	2.5	35
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	0.3
<i>Drosera ?macrantha</i>	0	0.1
<i>Eremophila metallicorum</i>	2	0.5
<i>Eucalyptus longissima</i>	5	5
<i>Grevillea zygoloba</i>	2	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3)	0.4	2
<i>Lepidosperma ferricola</i> (P3)	0.4	0.3
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.2	2
<i>Olearia pimeleoides</i>	0.6	0.2
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.4	0.2

<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1	0.5
<i>Stenanthemum newbeyi</i> (P3)	1	1
<i>Trachymene ornata</i>	0.1	0.1

**PHOTO**

Site Name: KOOL-300  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 31/08/2013  
 GPS Location: GDA94 (Zone 50) 750310E 6581959N  
 Community: 2  
 Landform Type: Simple Slope/Minor Drainage Line (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*, *Eucalyptus salmonophloia*, *Eucalyptus salubris*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila ionantha*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.6	2
<i>Atriplex vesicaria</i>	0.8	3
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.4	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1.5	0.2
<i>Eremophila ionantha</i>	1.7	1
<i>Eucalyptus ravida</i>	10	2
<i>Eucalyptus salmonophloia</i>	16	20
<i>Eucalyptus salubris</i>	12	3
<i>Exocarpos aphyllus</i>	0.9	0.1
<i>Maireana georgei</i>	0.4	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.2	0.1
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1



<i>Rhagodia drummondii</i>	0.7	0.2
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Zygophyllum eremaeum</i>	0.3	0.1

**PHOTO**



Site Name: KOOL-301  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 01/09/2013  
 GPS Location: GDA94 (Zone 50) 750034E 6582320N  
 Community: 2  
 Landform Type: Simple Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Sandy Loam  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus ravida*, *Eucalyptus salmonophloia*, *Eucalyptus salubris*  
 Upper Stratum 2: *Eucalyptus celastroides* subsp. *celastroides*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Atriplex nummularia</i>	1.6	0.8
<i>Atriplex vesicaria</i>	0.5	0.4
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.3	0.1
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.9	0.1
<i>Eremophila scoparia</i>	1.1	0.2
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	9	4
<i>Eucalyptus ravida</i>	10	3
<i>Eucalyptus salmonophloia</i>	17	3
<i>Eucalyptus salubris</i>	15	8
<i>Exocarpos aphyllus</i>	0.4	0.1
<i>Maireana georgei</i>	0.3	0.1
<i>Maireana trichoptera</i>	0.1	0.1

<i>Olearia muelleri</i>	0.3	0.1
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Solanum nummularium</i>	0.3	0.1
<i>Zygophyllum eremaeum</i>	0.2	0.1

**PHOTO**

Site Name: KOOL-302  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 02/09/2013  
 GPS Location: GDA94 (Zone 50) 751399E 6581018N  
 Community: 10  
 Landform Type: Simple Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Sandy Clay (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus loxophleba* subsp. *lissophloia*  
 Upper Stratum 2: *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831)  
 Mid Stratum 1: *Eremophila alternifolia*, *Eremophila clarkei*, *Scaevola spinescens*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)	4	5
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	4	3
<i>Acacia tetragonophylla</i>	2	0.5
<i>Alyxia buxifolia</i>	2.5	0.2
<i>Austrostipa elegantissima</i>	0.3	0.1
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	0.1	0.1
<i>Cheilanthes ?adiantoides</i>	0.1	0.1
<i>Dodonaea inaequifolia</i>	0.6	0.1
<i>Eremophila alternifolia</i>	2	1
<i>Eremophila clarkei</i>	2	2
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1	0.1
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.5	0.2
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	9	25



<i>Grevillea zygoloba</i>	2.5	1
<i>Maireana georgei</i>	0.3	0.1
<i>Olearia muelleri</i>	0.4	0.2
<i>Olearia pimeleoides</i>	1	0.2
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.8	0.2
<i>Rhagodia drummondii</i>	0.3	0.1
<i>Scaevola spinescens</i>	1.4	1
<i>Thysanotus manglesianus</i>		0.1

**PHOTO**

Site Name: KOOL-303  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 03/09/2013  
 GPS Location: GDA94 (Zone 50) 742468E 6584112N  
 Community: 1  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Clayey Sand (other)  
 Soil Colour: Red Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Disturbance: None  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus salmonophloia*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila ionantha*  
 Lower Stratum 1: *Atriplex vesicaria*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia enervia</i> subsp. <i>explicata</i>	2	0.3
<i>Acacia erinacea</i>	0.9	0.2
<i>Alyxia buxifolia</i>		
<i>Atriplex nummularia</i>	1.6	2
<i>Atriplex vesicaria</i>	0.4	0.4
<i>Austrostipa elegantissima</i>		
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.2	0.1
<i>Eremophila ionantha</i>	2	2
<i>Eremophila maculata</i> subsp. <i>brevifolia</i>		
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	1.3	0.1
<i>Eremophila scoparia</i>	1.2	0.1
<i>Eucalyptus salmonophloia</i>	18	12
<i>Exocarpos aphyllus</i>	0.8	0.1
<i>Haloragis ?trigonocarpa</i>		

<i>Maireana georgei</i>	0.2	0.1
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.2	0.2
<i>Maireana triptera</i>	0.2	0.1
<i>Olearia muelleri</i>	0.3	0.1
<i>Ptilotus divaricatus</i>		
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	0.1	0.1
<i>Rhagodia drummondii</i>	0.4	0.1
<i>Scaevola spinescens</i>		
<i>Sclerolaena diacantha</i>	0.1	0.1
<i>Sclerolaena fusiformis</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1	0.2
<i>Senna stowardii</i>	0.9	0.1

**PHOTO**

Site Name: KOOL-304  
 Site Type: QUADRAT  
 Dimensions: 20m x 20m  
 Survey Date: 20/09/2013  
 GPS Location: GDA94 (Zone 50) 745033E 6585951N  
 Community: 3  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Light Clay  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Ironstone, Quartz (other)  
 Vegetation Condition: E - Excellent  
 Fire: >10

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus longicornis*, *Eucalyptus vittata*  
 Mid Stratum 1: *Atriplex nummularia*, *Eremophila scoparia*  
 Lower Stratum 1: *Atriplex vesicaria*, *Olearia muelleri*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Atriplex nummularia</i>	1.6	1
<i>Atriplex vesicaria</i>	0.4	0.5
<i>Austrostipa elegantissima</i>	0.4	0.1
<i>Eremophila interstans</i> subsp. <i>interstans</i>	2	1
<i>Eremophila scoparia</i>	1.8	10
<i>Eucalyptus longicornis</i>	12	15
<i>Eucalyptus vittata</i>	12	10
<i>Exocarpos aphyllus</i>	1.2	0.5
<i>Maireana georgei</i>	0.2	0.1
<i>Maireana trichoptera</i>	0.1	0.1
<i>Olearia muelleri</i>	0.4	0.7
<i>Sclerolaena diacantha</i>	0.1	0.1

#### **PHOTO**





## Appendix L: Location Details of Conservation Significant Flora and Introduced Flora Recorded within the Study Area and Surrounds, 2013

Note: All GPS co-ordinates in WGS84, Zone 50

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748783	6581012	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748748	6581012	Opportunistic	20
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748724	6581009	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748671	6581009	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748715	6580988	Opportunistic	4
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748755	6580992	Opportunistic	5
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748727	6580993	Opportunistic	20
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749141	6580920	Opportunistic	3
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749154	6580927	Opportunistic	6
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749166	6580940	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749183	6580947	Opportunistic	30
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749206	6580958	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749281	6580993	Opportunistic	15
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749220	6581307	Opportunistic	15
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749208	6581051	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749091	6580793	Opportunistic	15
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749090	6580776	Opportunistic	30
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748772	6581085	Opportunistic	5
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748737	6581084	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748703	6581086	Opportunistic	6
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748607	6581081	Opportunistic	3
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748743	6581070	Opportunistic	6
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748537	6581087	Opportunistic	4
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748604	6581074	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748622	6581066	Opportunistic	12
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748668	6581072	Opportunistic	5
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748696	6581068	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748727	6581067	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749241	6581013	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748642	6581170	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748652	6581173	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748672	6581174	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748604	6581228	Opportunistic	1
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748150	6582860	Opportunistic	1
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749009	6581101	Opportunistic	1
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	749186	6581145	Opportunistic	3
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748611	6581144	Opportunistic	5

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748955	6581143	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748726	6581149	Opportunistic	6
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748635	6581155	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749048	6580874	Opportunistic	1
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749067	6580884	Opportunistic	4
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749088	6580900	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749106	6580912	Opportunistic	1
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749117	6580925	Opportunistic	7
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749153	6580966	Opportunistic	3
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749181	6580966	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749203	6580972	Opportunistic	13
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749234	6581005	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749280	6581007	Opportunistic	1
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749344	6581026	Opportunistic	1
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749213	6581292	Opportunistic	4
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749232	6581355	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749222	6581362	Opportunistic	30
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749206	6581378	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749126	6581207	Opportunistic	7
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749210	6581036	Opportunistic	15
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749226	6581046	Opportunistic	3
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749210	6581027	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749145	6580900	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749136	6580885	Opportunistic	2
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749120	6580807	Opportunistic	1
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749108	6580793	Opportunistic	12
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749107	6580774	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	749123	6580761	Opportunistic	10
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748765	6581107	Opportunistic	15
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748749	6581106	Opportunistic	12
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748518	6581106	Opportunistic	12
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748613	6581048	Opportunistic	15
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748644	6581053	Opportunistic	30
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748686	6581055	Opportunistic	6
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748738	6581045	Opportunistic	20
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748759	6581054	Opportunistic	35
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748311	6582786	Opportunistic	35
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748298	6582759	Opportunistic	40
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748821	6581349	Opportunistic	21
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748809	6581384	Opportunistic	2
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748848	6581160	Opportunistic	9
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748342	6582776	Opportunistic	5
<i>Acacia</i> aff. <i>acuarua</i>	Potentially undescribed	748062	6582934	Opportunistic	6

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748350	6582711	Opportunistic	44
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748807	6581359	Opportunistic	3
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748820	6581352	Opportunistic	3
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748829	6581341	Opportunistic	6
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748825	6581334	Opportunistic	2
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748819	6581325	Opportunistic	13
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748806	6581316	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748407	6582707	Opportunistic	22
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748407	6582707	Opportunistic	22
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748971	6581102	Opportunistic	2
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748960	6581140	Opportunistic	1
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748842	6580886	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748869	6580880	Opportunistic	7
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748985	6581137	Opportunistic	4
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748981	6581130	Opportunistic	40
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748977	6581116	Opportunistic	30
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748917	6580851	Opportunistic	4
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748914	6580910	Opportunistic	2
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748760	6581129	Opportunistic	15
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748739	6581126	Opportunistic	1
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748730	6581029	Opportunistic	15
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748653	6581033	Opportunistic	2
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748725	6580961	Opportunistic	5
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748617	6581129	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748566	6581131	Opportunistic	2
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748642	6581192	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748666	6581192	Opportunistic	4
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748666	6581211	Opportunistic	8
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748549	6581206	Opportunistic	5
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748578	6581277	Opportunistic	20
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748784	6581030	Opportunistic	10
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748763	6581037	Opportunistic	6
<i>Acacia</i> aff. <i>acuaria</i>	Potentially undescribed	748748	6581031	Opportunistic	12
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750050	6581927	Opportunistic	4
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750022	6581899	Opportunistic	7
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	749988	6581876	Opportunistic	9
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	749992	6581834	Opportunistic	2
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750026	6581852	Opportunistic	10
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750042	6581834	Opportunistic	15
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750229	6581729	Opportunistic	1
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750269	6581723	Opportunistic	7
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	750295	6581696	Opportunistic	7
<i>Acacia</i> aff. <i>intricata</i>	Potentially undescribed	747345	6584035	Opportunistic	5



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia aff. intricata</i>	Potentially undescribed	746978	6584279	Opportunistic	7
<i>Acacia aff. intricata</i>	Potentially undescribed	747412	6584398	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746421	6584776	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746515	6585117	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746565	6585031	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746422	6585005	Opportunistic	4
<i>Acacia aff. intricata</i>	Potentially undescribed	746421	6585014	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746404	6584911	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746427	6584839	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746547	6584888	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746545	6585010	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	746489	6584692	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746593	6584763	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746237	6585048	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746217	6585072	Opportunistic	4
<i>Acacia aff. intricata</i>	Potentially undescribed	745914	6585068	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	745929	6585014	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	745901	6584922	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	745945	6584900	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746213	6584856	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746287	6584871	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746330	6584961	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746374	6585019	Opportunistic	4
<i>Acacia aff. intricata</i>	Potentially undescribed	746405	6585060	Opportunistic	5
<i>Acacia aff. intricata</i>	Potentially undescribed	746351	6585053	Opportunistic	5
<i>Acacia aff. intricata</i>	Potentially undescribed	746296	6585104	Opportunistic	7
<i>Acacia aff. intricata</i>	Potentially undescribed	746280	6585123	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746260	6585101	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	745956	6584904	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746060	6584888	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	745056	6586212	Opportunistic	10
<i>Acacia aff. intricata</i>	Potentially undescribed	746065	6585048	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746050	6585043	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	746040	6585038	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	746065	6585024	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746051	6585000	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746198	6585053	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746088	6585079	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746278	6584984	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746281	6585060	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746322	6585077	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	746301	6585085	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746256	6585073	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia aff. intricata</i>	Potentially undescribed	746043	6584962	Opportunistic	7
<i>Acacia aff. intricata</i>	Potentially undescribed	746083	6584922	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746181	6584916	Opportunistic	2
<i>Acacia aff. intricata</i>	Potentially undescribed	746270	6584914	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746050	6584985	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	746285	6584953	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	746121	6584984	Opportunistic	5
<i>Acacia aff. intricata</i>	Potentially undescribed	745069	6586289	Opportunistic	9
<i>Acacia aff. intricata</i>	Potentially undescribed	749951	6581883	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	750012	6581813	Opportunistic	4
<i>Acacia aff. intricata</i>	Potentially undescribed	750240	6581666	Opportunistic	3
<i>Acacia aff. intricata</i>	Potentially undescribed	750277	6581676	Opportunistic	5
<i>Acacia aff. intricata</i>	Potentially undescribed	747473	6584298	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747343	6584278	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747296	6584253	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747034	6584323	Opportunistic	4
<i>Acacia aff. intricata</i>	Potentially undescribed	746995	6584331	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747281	6584333	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747363	6584347	Opportunistic	1
<i>Acacia aff. intricata</i>	Potentially undescribed	747483	6584337	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749907	6582723	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749914	6582626	Opportunistic	15
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749990	6582601	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750006	6582611	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750086	6582614	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750162	6582610	Opportunistic	7
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750183	6582612	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750207	6582608	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750243	6582667	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750223	6582673	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750204	6582665	Opportunistic	7
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750165	6582668	Opportunistic	11
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750077	6582674	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750060	6582673	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750034	6582662	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750000	6582668	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749974	6582672	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749930	6582666	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749903	6582673	Opportunistic	7
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749868	6582672	Opportunistic	12
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749842	6582671	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749809	6582668	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749775	6582674	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749777	6582746	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749807	6582750	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749829	6582754	Opportunistic	7
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749849	6582751	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749868	6582749	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749412	6583013	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749402	6582997	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749401	6582964	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749700	6582915	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749904	6582751	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749888	6582851	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749847	6582847	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749825	6582848	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749842	6582620	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749311	6583107	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749586	6583012	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749615	6583025	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749672	6582971	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749674	6582933	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749706	6582896	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749724	6582887	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749772	6582896	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749815	6582856	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749420	6583027	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749412	6582975	Opportunistic	7
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749422	6582996	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751275	6581803	Opportunistic	56
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751213	6581849	Opportunistic	26
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751132	6581909	Opportunistic	13
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751093	6581947	Opportunistic	12
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751011	6582088	Opportunistic	12
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751062	6582044	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751254	6581889	Opportunistic	25
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751336	6581828	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750134	6582636	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749883	6582689	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749910	6582687	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746760	6584763	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749347	6583141	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749365	6583154	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749393	6583158	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749598	6583039	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749677	6582992	Opportunistic	4

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749708	6582935	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749736	6582959	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749727	6582930	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749746	6582938	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749792	6582915	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749825	6582897	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749852	6582875	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749453	6583043	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749353	6582962	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749364	6582919	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749377	6582937	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749375	6582958	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749853	6582688	Opportunistic	25
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749812	6582687	Opportunistic	13
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749759	6582692	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749728	6582692	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749819	6582775	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749849	6582769	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749883	6582772	Opportunistic	11
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749930	6582770	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749967	6582779	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749959	6582787	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749924	6582784	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749897	6582788	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749871	6582789	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749808	6582796	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749807	6582629	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749789	6582634	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	748974	6583548	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749968	6582689	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749990	6582683	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750080	6582683	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750066	6582690	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750164	6582631	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750208	6582634	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750243	6582629	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750203	6582685	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750112	6582562	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750132	6582572	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750149	6582577	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750250	6582586	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749947	6582555	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749907	6582554	Opportunistic	1



<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749724	6582709	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749734	6582715	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749732	6582695	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749768	6582720	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749805	6582716	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749818	6582706	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749855	6582705	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749859	6582705	Opportunistic	12
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750017	6582714	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750036	6582707	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749878	6582807	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749836	6582806	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749816	6582816	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749807	6582800	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746643	6584769	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746795	6584746	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746806	6584755	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749816	6582816	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749807	6582800	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746904	6584798	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746941	6584789	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746953	6584777	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749884	6582712	Opportunistic	12
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749841	6582641	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749888	6582638	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749918	6582630	Opportunistic	20
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749972	6582633	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750037	6582632	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750078	6582596	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750104	6582594	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750126	6582591	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751234	6581783	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751210	6581818	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751164	6581861	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751111	6581888	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751083	6581918	Opportunistic	15
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751132	6581838	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751164	6581800	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750232	6582651	Opportunistic	5
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750190	6582648	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750160	6582653	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750116	6582650	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749930	6582641	Opportunistic	8

Taxon	Conservation Code	Eastings	Northing	Record Location	Count
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749888	6582649	Opportunistic	15
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749853	6582654	Opportunistic	10
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749825	6582641	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749785	6582640	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749778	6582737	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749801	6582725	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749831	6582728	Opportunistic	9
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749863	6582732	Opportunistic	6
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749906	6582729	Opportunistic	2
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749978	6582731	Opportunistic	11
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750003	6582731	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750029	6582728	Opportunistic	4
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746762	6584760	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746789	6584767	Opportunistic	3
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746890	6584802	Opportunistic	8
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	746743	6584675	Opportunistic	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	751100	6581920	KOOL-160	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749927	6582671	KOOL-123	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	750146	6582652	KOOL-231	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	745928	6584779	KOOL-073	1
<i>Acacia dissona</i> var. <i>indoloria</i>	P3	749713	6582999	KOOL-230	1
<i>Austrostipa blackii</i>	P3	749786	6582541	Opportunistic	10
<i>Austrostipa blackii</i>	P3	750260	6580609	Opportunistic	6
<i>Austrostipa blackii</i>	P3	749713	6582693	KOOL-122	1
<i>Austrostipa blackii</i>	P3	745773	6584147	KOOL-069	1
<i>Austrostipa blackii</i>	P3	751161	6579803	KOOL-199	1
<i>Austrostipa blackii</i>	P3	748744	6583120	KOOL-098	1
<i>Austrostipa blackii</i>	P3	749665	6582883	KOOL-241	1
<i>Banksia arborea</i>	P4	750625	6580953	Opportunistic	1
<i>Banksia arborea</i>	P4	750859	6580937	Opportunistic	1
<i>Banksia arborea</i>	P4	748493	6582241	Opportunistic	5
<i>Banksia arborea</i>	P4	748495	6582289	Opportunistic	1
<i>Banksia arborea</i>	P4	748496	6582334	Opportunistic	6
<i>Banksia arborea</i>	P4	748209	6582770	Opportunistic	8
<i>Banksia arborea</i>	P4	748193	6582549	Opportunistic	4
<i>Banksia arborea</i>	P4	748191	6582525	Opportunistic	14
<i>Banksia arborea</i>	P4	748211	6582495	Opportunistic	1
<i>Banksia arborea</i>	P4	747904	6582780	Opportunistic	20
<i>Banksia arborea</i>	P4	747900	6582817	Opportunistic	2
<i>Banksia arborea</i>	P4	747894	6582851	Opportunistic	1
<i>Banksia arborea</i>	P4	747906	6582897	Opportunistic	4
<i>Banksia arborea</i>	P4	747893	6582973	Opportunistic	6
<i>Banksia arborea</i>	P4	747593	6583164	Opportunistic	2

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	747594	6583093	Opportunistic	3
<i>Banksia arborea</i>	P4	747596	6583062	Opportunistic	3
<i>Banksia arborea</i>	P4	747011	6583410	Opportunistic	3
<i>Banksia arborea</i>	P4	747009	6583373	Opportunistic	6
<i>Banksia arborea</i>	P4	747000	6583336	Opportunistic	6
<i>Banksia arborea</i>	P4	747006	6583288	Opportunistic	4
<i>Banksia arborea</i>	P4	746699	6583399	Opportunistic	5
<i>Banksia arborea</i>	P4	746703	6583434	Opportunistic	4
<i>Banksia arborea</i>	P4	746704	6583524	Opportunistic	2
<i>Banksia arborea</i>	P4	746698	6583550	Opportunistic	2
<i>Banksia arborea</i>	P4	746384	6583641	Opportunistic	1
<i>Banksia arborea</i>	P4	746403	6583485	Opportunistic	2
<i>Banksia arborea</i>	P4	746394	6583448	Opportunistic	11
<i>Banksia arborea</i>	P4	746400	6583413	Opportunistic	10
<i>Banksia arborea</i>	P4	746397	6583361	Opportunistic	5
<i>Banksia arborea</i>	P4	746396	6583291	Opportunistic	1
<i>Banksia arborea</i>	P4	749126	6581429	Opportunistic	2
<i>Banksia arborea</i>	P4	748405	6582321	Opportunistic	2
<i>Banksia arborea</i>	P4	748401	6582407	Opportunistic	5
<i>Banksia arborea</i>	P4	748403	6582472	Opportunistic	3
<i>Banksia arborea</i>	P4	748399	6582533	Opportunistic	1
<i>Banksia arborea</i>	P4	748396	6582571	Opportunistic	1
<i>Banksia arborea</i>	P4	749105	6581460	Opportunistic	3
<i>Banksia arborea</i>	P4	743539	6584763	Opportunistic	10
<i>Banksia arborea</i>	P4	750131	6580948	Opportunistic	5
<i>Banksia arborea</i>	P4	750137	6580931	Opportunistic	5
<i>Banksia arborea</i>	P4	750144	6580833	Opportunistic	2
<i>Banksia arborea</i>	P4	750134	6580751	Opportunistic	1
<i>Banksia arborea</i>	P4	750373	6579575	Opportunistic	7
<i>Banksia arborea</i>	P4	750383	6579661	Opportunistic	6
<i>Banksia arborea</i>	P4	750389	6579737	Opportunistic	6
<i>Banksia arborea</i>	P4	750136	6580610	Opportunistic	1
<i>Banksia arborea</i>	P4	750137	6580586	Opportunistic	2
<i>Banksia arborea</i>	P4	750388	6579774	Opportunistic	5
<i>Banksia arborea</i>	P4	750378	6579843	Opportunistic	15
<i>Banksia arborea</i>	P4	750379	6579903	Opportunistic	6
<i>Banksia arborea</i>	P4	750388	6579988	Opportunistic	7
<i>Banksia arborea</i>	P4	750386	6580031	Opportunistic	15
<i>Banksia arborea</i>	P4	750390	6580075	Opportunistic	14
<i>Banksia arborea</i>	P4	750377	6580179	Opportunistic	7
<i>Banksia arborea</i>	P4	750398	6580267	Opportunistic	6
<i>Banksia arborea</i>	P4	750370	6580339	Opportunistic	15
<i>Banksia arborea</i>	P4	750381	6580437	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750391	6580489	Opportunistic	1
<i>Banksia arborea</i>	P4	750388	6580614	Opportunistic	4
<i>Banksia arborea</i>	P4	750404	6580666	Opportunistic	6
<i>Banksia arborea</i>	P4	750386	6580919	Opportunistic	1
<i>Banksia arborea</i>	P4	750851	6579987	Opportunistic	2
<i>Banksia arborea</i>	P4	750863	6580010	Opportunistic	10
<i>Banksia arborea</i>	P4	750869	6580062	Opportunistic	5
<i>Banksia arborea</i>	P4	750872	6580099	Opportunistic	5
<i>Banksia arborea</i>	P4	750883	6580126	Opportunistic	3
<i>Banksia arborea</i>	P4	750859	6580412	Opportunistic	5
<i>Banksia arborea</i>	P4	750858	6579923	Opportunistic	1
<i>Banksia arborea</i>	P4	750849	6580483	Opportunistic	4
<i>Banksia arborea</i>	P4	750854	6580517	Opportunistic	5
<i>Banksia arborea</i>	P4	751112	6580118	Opportunistic	1
<i>Banksia arborea</i>	P4	751108	6580086	Opportunistic	3
<i>Banksia arborea</i>	P4	751088	6580058	Opportunistic	2
<i>Banksia arborea</i>	P4	751086	6579977	Opportunistic	1
<i>Banksia arborea</i>	P4	751097	6579953	Opportunistic	5
<i>Banksia arborea</i>	P4	751344	6580069	Opportunistic	1
<i>Banksia arborea</i>	P4	750619	6580910	Opportunistic	4
<i>Banksia arborea</i>	P4	750620	6580862	Opportunistic	2
<i>Banksia arborea</i>	P4	750627	6580587	Opportunistic	5
<i>Banksia arborea</i>	P4	750615	6580539	Opportunistic	8
<i>Banksia arborea</i>	P4	750619	6580526	Opportunistic	13
<i>Banksia arborea</i>	P4	750620	6580474	Opportunistic	7
<i>Banksia arborea</i>	P4	750622	6580430	Opportunistic	5
<i>Banksia arborea</i>	P4	750623	6580366	Opportunistic	10
<i>Banksia arborea</i>	P4	750620	6580340	Opportunistic	5
<i>Banksia arborea</i>	P4	750620	6580288	Opportunistic	3
<i>Banksia arborea</i>	P4	750623	6580268	Opportunistic	7
<i>Banksia arborea</i>	P4	750613	6580241	Opportunistic	7
<i>Banksia arborea</i>	P4	750621	6579771	Opportunistic	3
<i>Banksia arborea</i>	P4	750613	6579731	Opportunistic	7
<i>Banksia arborea</i>	P4	750613	6579715	Opportunistic	5
<i>Banksia arborea</i>	P4	750701	6580505	Opportunistic	5
<i>Banksia arborea</i>	P4	750697	6580421	Opportunistic	8
<i>Banksia arborea</i>	P4	750941	6580010	Opportunistic	3
<i>Banksia arborea</i>	P4	750940	6580048	Opportunistic	2
<i>Banksia arborea</i>	P4	750942	6580132	Opportunistic	3
<i>Banksia arborea</i>	P4	750938	6580405	Opportunistic	5
<i>Banksia arborea</i>	P4	750700	6580858	Opportunistic	1
<i>Banksia arborea</i>	P4	750701	6580900	Opportunistic	1
<i>Banksia arborea</i>	P4	750701	6580900	Opportunistic	1



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750696	6581009	Opportunistic	5
<i>Banksia arborea</i>	P4	748108	6582885	Opportunistic	1
<i>Banksia arborea</i>	P4	748093	6582623	Opportunistic	3
<i>Banksia arborea</i>	P4	748098	6582574	Opportunistic	1
<i>Banksia arborea</i>	P4	747806	6582843	Opportunistic	6
<i>Banksia arborea</i>	P4	747809	6582919	Opportunistic	6
<i>Banksia arborea</i>	P4	747808	6582987	Opportunistic	4
<i>Banksia arborea</i>	P4	747799	6583104	Opportunistic	1
<i>Banksia arborea</i>	P4	747503	6583118	Opportunistic	9
<i>Banksia arborea</i>	P4	747200	6583350	Opportunistic	2
<i>Banksia arborea</i>	P4	746893	6583419	Opportunistic	7
<i>Banksia arborea</i>	P4	746309	6583612	Opportunistic	2
<i>Banksia arborea</i>	P4	746302	6583542	Opportunistic	2
<i>Banksia arborea</i>	P4	745568	6584373	Opportunistic	6
<i>Banksia arborea</i>	P4	745543	6584421	Opportunistic	11
<i>Banksia arborea</i>	P4	745520	6584454	Opportunistic	5
<i>Banksia arborea</i>	P4	745509	6584476	Opportunistic	3
<i>Banksia arborea</i>	P4	745497	6584505	Opportunistic	4
<i>Banksia arborea</i>	P4	745498	6584527	Opportunistic	7
<i>Banksia arborea</i>	P4	750177	6581141	Opportunistic	5
<i>Banksia arborea</i>	P4	750179	6581133	Opportunistic	2
<i>Banksia arborea</i>	P4	750184	6580827	Opportunistic	5
<i>Banksia arborea</i>	P4	750175	6580807	Opportunistic	1
<i>Banksia arborea</i>	P4	750164	6580595	Opportunistic	4
<i>Banksia arborea</i>	P4	750170	6580827	Opportunistic	5
<i>Banksia arborea</i>	P4	750175	6580807	Opportunistic	1
<i>Banksia arborea</i>	P4	750164	6580595	Opportunistic	4
<i>Banksia arborea</i>	P4	750177	6580586	Opportunistic	1
<i>Banksia arborea</i>	P4	750184	6580561	Opportunistic	2
<i>Banksia arborea</i>	P4	750179	6580567	Opportunistic	3
<i>Banksia arborea</i>	P4	750190	6580568	Opportunistic	2
<i>Banksia arborea</i>	P4	750423	6579648	Opportunistic	3
<i>Banksia arborea</i>	P4	750430	6579660	Opportunistic	4
<i>Banksia arborea</i>	P4	750412	6579671	Opportunistic	2
<i>Banksia arborea</i>	P4	750441	6579694	Opportunistic	2
<i>Banksia arborea</i>	P4	750422	6579710	Opportunistic	2
<i>Banksia arborea</i>	P4	750417	6579747	Opportunistic	3
<i>Banksia arborea</i>	P4	750429	6579758	Opportunistic	1
<i>Banksia arborea</i>	P4	750421	6579826	Opportunistic	1
<i>Banksia arborea</i>	P4	750411	6579929	Opportunistic	3
<i>Banksia arborea</i>	P4	750414	6579990	Opportunistic	1
<i>Banksia arborea</i>	P4	750418	6580006	Opportunistic	1
<i>Banksia arborea</i>	P4	750423	6580028	Opportunistic	3

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750431	6580258	Opportunistic	1
<i>Banksia arborea</i>	P4	750420	6580259	Opportunistic	3
<i>Banksia arborea</i>	P4	750418	6580278	Opportunistic	1
<i>Banksia arborea</i>	P4	750424	6580321	Opportunistic	1
<i>Banksia arborea</i>	P4	750423	6580438	Opportunistic	3
<i>Banksia arborea</i>	P4	750425	6580470	Opportunistic	1
<i>Banksia arborea</i>	P4	750419	6580436	Opportunistic	2
<i>Banksia arborea</i>	P4	750420	6580522	Opportunistic	1
<i>Banksia arborea</i>	P4	750426	6580531	Opportunistic	1
<i>Banksia arborea</i>	P4	750418	6580538	Opportunistic	4
<i>Banksia arborea</i>	P4	750424	6580576	Opportunistic	1
<i>Banksia arborea</i>	P4	750415	6580588	Opportunistic	1
<i>Banksia arborea</i>	P4	750436	6580592	Opportunistic	4
<i>Banksia arborea</i>	P4	750420	6580601	Opportunistic	2
<i>Banksia arborea</i>	P4	750416	6580630	Opportunistic	1
<i>Banksia arborea</i>	P4	750415	6580899	Opportunistic	3
<i>Banksia arborea</i>	P4	751134	6580194	Opportunistic	3
<i>Banksia arborea</i>	P4	751137	6580156	Opportunistic	4
<i>Banksia arborea</i>	P4	751128	6580125	Opportunistic	2
<i>Banksia arborea</i>	P4	751138	6580099	Opportunistic	1
<i>Banksia arborea</i>	P4	751130	6580075	Opportunistic	2
<i>Banksia arborea</i>	P4	751124	6580063	Opportunistic	4
<i>Banksia arborea</i>	P4	751141	6580054	Opportunistic	1
<i>Banksia arborea</i>	P4	751146	6580002	Opportunistic	1
<i>Banksia arborea</i>	P4	751147	6579990	Opportunistic	2
<i>Banksia arborea</i>	P4	751134	6579960	Opportunistic	3
<i>Banksia arborea</i>	P4	751382	6580028	Opportunistic	3
<i>Banksia arborea</i>	P4	751377	6580048	Opportunistic	2
<i>Banksia arborea</i>	P4	750644	6580893	Opportunistic	4
<i>Banksia arborea</i>	P4	750648	6580867	Opportunistic	3
<i>Banksia arborea</i>	P4	750662	6580850	Opportunistic	6
<i>Banksia arborea</i>	P4	750658	6580818	Opportunistic	4
<i>Banksia arborea</i>	P4	750657	6580636	Opportunistic	7
<i>Banksia arborea</i>	P4	750661	6580587	Opportunistic	2
<i>Banksia arborea</i>	P4	750661	6580577	Opportunistic	2
<i>Banksia arborea</i>	P4	750657	6580529	Opportunistic	3
<i>Banksia arborea</i>	P4	750667	6580529	Opportunistic	2
<i>Banksia arborea</i>	P4	750659	6580522	Opportunistic	2
<i>Banksia arborea</i>	P4	750672	6580508	Opportunistic	1
<i>Banksia arborea</i>	P4	750666	6580480	Opportunistic	4
<i>Banksia arborea</i>	P4	750659	6580449	Opportunistic	4
<i>Banksia arborea</i>	P4	750660	6580425	Opportunistic	2
<i>Banksia arborea</i>	P4	750645	6580412	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750654	6580397	Opportunistic	2
<i>Banksia arborea</i>	P4	750666	6580391	Opportunistic	1
<i>Banksia arborea</i>	P4	750655	6580347	Opportunistic	2
<i>Banksia arborea</i>	P4	750661	6580306	Opportunistic	1
<i>Banksia arborea</i>	P4	750648	6580286	Opportunistic	1
<i>Banksia arborea</i>	P4	750911	6580015	Opportunistic	1
<i>Banksia arborea</i>	P4	750932	6580041	Opportunistic	4
<i>Banksia arborea</i>	P4	750903	6580085	Opportunistic	10
<i>Banksia arborea</i>	P4	750900	6580098	Opportunistic	2
<i>Banksia arborea</i>	P4	750893	6580118	Opportunistic	6
<i>Banksia arborea</i>	P4	750906	6580141	Opportunistic	3
<i>Banksia arborea</i>	P4	750897	6580168	Opportunistic	1
<i>Banksia arborea</i>	P4	750904	6580404	Opportunistic	1
<i>Banksia arborea</i>	P4	750903	6580422	Opportunistic	2
<i>Banksia arborea</i>	P4	750895	6580437	Opportunistic	1
<i>Banksia arborea</i>	P4	750915	6580459	Opportunistic	1
<i>Banksia arborea</i>	P4	750890	6580506	Opportunistic	2
<i>Banksia arborea</i>	P4	750903	6580590	Opportunistic	3
<i>Banksia arborea</i>	P4	750899	6580608	Opportunistic	2
<i>Banksia arborea</i>	P4	750910	6580635	Opportunistic	1
<i>Banksia arborea</i>	P4	750606	6580875	Opportunistic	2
<i>Banksia arborea</i>	P4	750664	6580903	Opportunistic	1
<i>Banksia arborea</i>	P4	750676	6581001	Opportunistic	1
<i>Banksia arborea</i>	P4	750679	6581014	Opportunistic	3
<i>Banksia arborea</i>	P4	750885	6580915	Opportunistic	1
<i>Banksia arborea</i>	P4	750133	6581428	Opportunistic	2
<i>Banksia arborea</i>	P4	750258	6580846	Opportunistic	2
<i>Banksia arborea</i>	P4	750261	6580754	Opportunistic	3
<i>Banksia arborea</i>	P4	750259	6580681	Opportunistic	1
<i>Banksia arborea</i>	P4	748642	6583090	Opportunistic	6
<i>Banksia arborea</i>	P4	748613	6583113	Opportunistic	6
<i>Banksia arborea</i>	P4	748586	6583132	Opportunistic	2
<i>Banksia arborea</i>	P4	748538	6583167	Opportunistic	3
<i>Banksia arborea</i>	P4	748520	6583191	Opportunistic	8
<i>Banksia arborea</i>	P4	748553	6583078	Opportunistic	30
<i>Banksia arborea</i>	P4	750258	6580545	Opportunistic	2
<i>Banksia arborea</i>	P4	750261	6579628	Opportunistic	19
<i>Banksia arborea</i>	P4	750262	6579599	Opportunistic	10
<i>Banksia arborea</i>	P4	750496	6579640	Opportunistic	2
<i>Banksia arborea</i>	P4	750500	6579702	Opportunistic	7
<i>Banksia arborea</i>	P4	750506	6579746	Opportunistic	2
<i>Banksia arborea</i>	P4	750500	6579763	Opportunistic	6
<i>Banksia arborea</i>	P4	750499	6579812	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750501	6579896	Opportunistic	1
<i>Banksia arborea</i>	P4	750501	6579922	Opportunistic	11
<i>Banksia arborea</i>	P4	750501	6579971	Opportunistic	10
<i>Banksia arborea</i>	P4	750489	6580028	Opportunistic	1
<i>Banksia arborea</i>	P4	750499	6580038	Opportunistic	2
<i>Banksia arborea</i>	P4	750498	6580091	Opportunistic	3
<i>Banksia arborea</i>	P4	750508	6580145	Opportunistic	12
<i>Banksia arborea</i>	P4	750503	6580202	Opportunistic	5
<i>Banksia arborea</i>	P4	750497	6580287	Opportunistic	1
<i>Banksia arborea</i>	P4	750499	6580368	Opportunistic	2
<i>Banksia arborea</i>	P4	750502	6580406	Opportunistic	9
<i>Banksia arborea</i>	P4	750499	6580493	Opportunistic	1
<i>Banksia arborea</i>	P4	750500	6580534	Opportunistic	2
<i>Banksia arborea</i>	P4	750503	6580561	Opportunistic	2
<i>Banksia arborea</i>	P4	750496	6580653	Opportunistic	1
<i>Banksia arborea</i>	P4	750498	6580727	Opportunistic	5
<i>Banksia arborea</i>	P4	750506	6580796	Opportunistic	2
<i>Banksia arborea</i>	P4	751222	6580157	Opportunistic	2
<i>Banksia arborea</i>	P4	751223	6580135	Opportunistic	1
<i>Banksia arborea</i>	P4	751226	6580071	Opportunistic	1
<i>Banksia arborea</i>	P4	751217	6580044	Opportunistic	6
<i>Banksia arborea</i>	P4	751214	6579933	Opportunistic	3
<i>Banksia arborea</i>	P4	748305	6582537	Opportunistic	6
<i>Banksia arborea</i>	P4	748293	6582508	Opportunistic	3
<i>Banksia arborea</i>	P4	748290	6582463	Opportunistic	7
<i>Banksia arborea</i>	P4	748292	6582437	Opportunistic	10
<i>Banksia arborea</i>	P4	748012	6582690	Opportunistic	3
<i>Banksia arborea</i>	P4	748006	6582733	Opportunistic	5
<i>Banksia arborea</i>	P4	747998	6582843	Opportunistic	4
<i>Banksia arborea</i>	P4	747995	6582866	Opportunistic	2
<i>Banksia arborea</i>	P4	747692	6583172	Opportunistic	5
<i>Banksia arborea</i>	P4	747687	6583156	Opportunistic	5
<i>Banksia arborea</i>	P4	747697	6583034	Opportunistic	12
<i>Banksia arborea</i>	P4	747713	6583013	Opportunistic	20
<i>Banksia arborea</i>	P4	747091	6583387	Opportunistic	5
<i>Banksia arborea</i>	P4	747096	6583333	Opportunistic	1
<i>Banksia arborea</i>	P4	747104	6583290	Opportunistic	10
<i>Banksia arborea</i>	P4	747106	6583252	Opportunistic	5
<i>Banksia arborea</i>	P4	747104	6583164	Opportunistic	1
<i>Banksia arborea</i>	P4	747796	6583356	Opportunistic	6
<i>Banksia arborea</i>	P4	746802	6583395	Opportunistic	6
<i>Banksia arborea</i>	P4	746797	6583427	Opportunistic	3
<i>Banksia arborea</i>	P4	746800	6583476	Opportunistic	3



<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	746789	6583524	Opportunistic	2
<i>Banksia arborea</i>	P4	746499	6583533	Opportunistic	3
<i>Banksia arborea</i>	P4	746508	6583509	Opportunistic	2
<i>Banksia arborea</i>	P4	746512	6583481	Opportunistic	1
<i>Banksia arborea</i>	P4	746498	6583445	Opportunistic	3
<i>Banksia arborea</i>	P4	746497	6583416	Opportunistic	2
<i>Banksia arborea</i>	P4	748605	6582115	Opportunistic	1
<i>Banksia arborea</i>	P4	748606	6582196	Opportunistic	3
<i>Banksia arborea</i>	P4	748594	6582239	Opportunistic	2
<i>Banksia arborea</i>	P4	748596	6582279	Opportunistic	2
<i>Banksia arborea</i>	P4	748600	6582299	Opportunistic	7
<i>Banksia arborea</i>	P4	748588	6582341	Opportunistic	2
<i>Banksia arborea</i>	P4	748594	6582389	Opportunistic	8
<i>Banksia arborea</i>	P4	750230	6580852	Opportunistic	6
<i>Banksia arborea</i>	P4	750202	6580814	Opportunistic	4
<i>Banksia arborea</i>	P4	748350	6582387	Opportunistic	5
<i>Banksia arborea</i>	P4	748335	6582429	Opportunistic	13
<i>Banksia arborea</i>	P4	748348	6582480	Opportunistic	8
<i>Banksia arborea</i>	P4	748348	6582532	Opportunistic	3
<i>Banksia arborea</i>	P4	748351	6582586	Opportunistic	4
<i>Banksia arborea</i>	P4	750216	6580591	Opportunistic	5
<i>Banksia arborea</i>	P4	748047	6582860	Opportunistic	3
<i>Banksia arborea</i>	P4	748051	6582781	Opportunistic	2
<i>Banksia arborea</i>	P4	748047	6582700	Opportunistic	8
<i>Banksia arborea</i>	P4	747750	6583008	Opportunistic	20
<i>Banksia arborea</i>	P4	747736	6583046	Opportunistic	8
<i>Banksia arborea</i>	P4	747748	6583139	Opportunistic	4
<i>Banksia arborea</i>	P4	747146	6583158	Opportunistic	3
<i>Banksia arborea</i>	P4	747138	6583271	Opportunistic	6
<i>Banksia arborea</i>	P4	747138	6583271	Opportunistic	6
<i>Banksia arborea</i>	P4	747150	6583288	Opportunistic	4
<i>Banksia arborea</i>	P4	747160	6583330	Opportunistic	1
<i>Banksia arborea</i>	P4	746848	6583453	Opportunistic	2
<i>Banksia arborea</i>	P4	746850	6583424	Opportunistic	9
<i>Banksia arborea</i>	P4	746849	6583387	Opportunistic	10
<i>Banksia arborea</i>	P4	746552	6583438	Opportunistic	2
<i>Banksia arborea</i>	P4	746543	6583526	Opportunistic	2
<i>Banksia arborea</i>	P4	745585	6584369	Opportunistic	2
<i>Banksia arborea</i>	P4	745584	6584395	Opportunistic	3
<i>Banksia arborea</i>	P4	745564	6584434	Opportunistic	2
<i>Banksia arborea</i>	P4	745549	6584452	Opportunistic	3
<i>Banksia arborea</i>	P4	745538	6584469	Opportunistic	5
<i>Banksia arborea</i>	P4	745521	6584485	Opportunistic	3

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	745560	6584510	Opportunistic	1
<i>Banksia arborea</i>	P4	750214	6580547	Opportunistic	1
<i>Banksia arborea</i>	P4	750461	6580003	Opportunistic	3
<i>Banksia arborea</i>	P4	750453	6580084	Opportunistic	3
<i>Banksia arborea</i>	P4	750465	6580172	Opportunistic	1
<i>Banksia arborea</i>	P4	750459	6580522	Opportunistic	1
<i>Banksia arborea</i>	P4	750464	6580595	Opportunistic	2
<i>Banksia arborea</i>	P4	751177	6579983	Opportunistic	7
<i>Banksia arborea</i>	P4	750225	6579622	Opportunistic	5
<i>Banksia arborea</i>	P4	751172	6579926	Opportunistic	2
<i>Banksia arborea</i>	P4	751417	6580061	Opportunistic	2
<i>Banksia arborea</i>	P4	751422	6580112	Opportunistic	2
<i>Banksia arborea</i>	P4	751423	6580152	Opportunistic	2
<i>Banksia arborea</i>	P4	750699	6580383	Opportunistic	4
<i>Banksia arborea</i>	P4	750736	6580910	Opportunistic	1
<i>Banksia arborea</i>	P4	750740	6580954	Opportunistic	3
<i>Banksia arborea</i>	P4	751467	6580512	Opportunistic	4
<i>Banksia arborea</i>	P4	751468	6580445	Opportunistic	1
<i>Banksia arborea</i>	P4	751458	6580047	Opportunistic	4
<i>Banksia arborea</i>	P4	751451	6580125	Opportunistic	2
<i>Banksia arborea</i>	P4	750738	6580649	Opportunistic	1
<i>Banksia arborea</i>	P4	750752	6580629	Opportunistic	2
<i>Banksia arborea</i>	P4	750741	6580540	Opportunistic	6
<i>Banksia arborea</i>	P4	750733	6580477	Opportunistic	6
<i>Banksia arborea</i>	P4	750735	6580450	Opportunistic	13
<i>Banksia arborea</i>	P4	750739	6580402	Opportunistic	50
<i>Banksia arborea</i>	P4	750741	6580368	Opportunistic	3
<i>Banksia arborea</i>	P4	750991	6579885	Opportunistic	3
<i>Banksia arborea</i>	P4	750990	6579990	Opportunistic	2
<i>Banksia arborea</i>	P4	750982	6580114	Opportunistic	2
<i>Banksia arborea</i>	P4	750970	6580169	Opportunistic	1
<i>Banksia arborea</i>	P4	750975	6579960	Opportunistic	3
<i>Banksia arborea</i>	P4	750984	6580436	Opportunistic	4
<i>Banksia arborea</i>	P4	750179	6580547	Opportunistic	3
<i>Banksia arborea</i>	P4	750430	6579660	Opportunistic	4
<i>Banksia arborea</i>	P4	750177	6580586	Opportunistic	1
<i>Banksia arborea</i>	P4	750184	6580561	Opportunistic	2
<i>Banksia arborea</i>	P4	750412	6579671	Opportunistic	2
<i>Banksia arborea</i>	P4	750441	6579694	Opportunistic	2
<i>Banksia arborea</i>	P4	750422	6579710	Opportunistic	2
<i>Banksia arborea</i>	P4	750417	6579743	Opportunistic	3
<i>Banksia arborea</i>	P4	750429	6579758	Opportunistic	1
<i>Banksia arborea</i>	P4	750421	6579826	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750411	6579929	Opportunistic	3
<i>Banksia arborea</i>	P4	750414	6579990	Opportunistic	1
<i>Banksia arborea</i>	P4	750418	6580006	Opportunistic	1
<i>Banksia arborea</i>	P4	750423	6580028	Opportunistic	3
<i>Banksia arborea</i>	P4	750431	6580258	Opportunistic	1
<i>Banksia arborea</i>	P4	750420	6580259	Opportunistic	3
<i>Banksia arborea</i>	P4	750418	6580278	Opportunistic	1
<i>Banksia arborea</i>	P4	750424	6580321	Opportunistic	1
<i>Banksia arborea</i>	P4	750423	6580438	Opportunistic	3
<i>Banksia arborea</i>	P4	750425	6580470	Opportunistic	1
<i>Banksia arborea</i>	P4	750419	6580436	Opportunistic	2
<i>Banksia arborea</i>	P4	750420	6580522	Opportunistic	1
<i>Banksia arborea</i>	P4	750426	6580531	Opportunistic	1
<i>Banksia arborea</i>	P4	750418	6580538	Opportunistic	4
<i>Banksia arborea</i>	P4	750424	6580576	Opportunistic	1
<i>Banksia arborea</i>	P4	749296	6581137	Opportunistic	1
<i>Banksia arborea</i>	P4	749224	6581186	Opportunistic	1
<i>Banksia arborea</i>	P4	750164	6580595	Opportunistic	4
<i>Banksia arborea</i>	P4	750170	6580827	Opportunistic	5
<i>Banksia arborea</i>	P4	750175	6580807	Opportunistic	1
<i>Banksia arborea</i>	P4	750164	6580595	Opportunistic	4
<i>Banksia arborea</i>	P4	750175	6580807	Opportunistic	1
<i>Banksia arborea</i>	P4	750184	6580827	Opportunistic	5
<i>Banksia arborea</i>	P4	750179	6581133	Opportunistic	2
<i>Banksia arborea</i>	P4	750177	6581141	Opportunistic	5
<i>Banksia arborea</i>	P4	750787	6580550	Opportunistic	5
<i>Banksia arborea</i>	P4	750780	6580583	Opportunistic	5
<i>Banksia arborea</i>	P4	750775	6580637	Opportunistic	1
<i>Banksia arborea</i>	P4	750779	6581010	Opportunistic	2
<i>Banksia arborea</i>	P4	750776	6580413	Opportunistic	10
<i>Banksia arborea</i>	P4	750785	6580474	Opportunistic	5
<i>Banksia arborea</i>	P4	750539	6579743	Opportunistic	2
<i>Banksia arborea</i>	P4	750771	6580385	Opportunistic	10
<i>Banksia arborea</i>	P4	750782	6580443	Opportunistic	10
<i>Banksia arborea</i>	P4	750777	6580969	Opportunistic	4
<i>Banksia arborea</i>	P4	750777	6580515	Opportunistic	10
<i>Banksia arborea</i>	P4	750782	6580925	Opportunistic	1
<i>Banksia arborea</i>	P4	750537	6579762	Opportunistic	4
<i>Banksia arborea</i>	P4	750533	6579822	Opportunistic	8
<i>Banksia arborea</i>	P4	750541	6579791	Opportunistic	8
<i>Banksia arborea</i>	P4	750547	6579907	Opportunistic	5
<i>Banksia arborea</i>	P4	750539	6579856	Opportunistic	2
<i>Banksia arborea</i>	P4	750543	6580096	Opportunistic	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750540	6579962	Opportunistic	5
<i>Banksia arborea</i>	P4	750534	6580251	Opportunistic	10
<i>Banksia arborea</i>	P4	750535	6580185	Opportunistic	3
<i>Banksia arborea</i>	P4	750540	6580153	Opportunistic	4
<i>Banksia arborea</i>	P4	750540	6580779	Opportunistic	1
<i>Banksia arborea</i>	P4	750542	6580703	Opportunistic	8
<i>Banksia arborea</i>	P4	750540	6580657	Opportunistic	9
<i>Banksia arborea</i>	P4	750543	6580616	Opportunistic	4
<i>Banksia arborea</i>	P4	750555	6580843	Opportunistic	6
<i>Banksia arborea</i>	P4	750539	6580802	Opportunistic	3
<i>Banksia arborea</i>	P4	750532	6580459	Opportunistic	4
<i>Banksia arborea</i>	P4	750534	6580425	Opportunistic	10
<i>Banksia arborea</i>	P4	750540	6580381	Opportunistic	8
<i>Banksia arborea</i>	P4	750543	6580349	Opportunistic	5
<i>Banksia arborea</i>	P4	750538	6580293	Opportunistic	5
<i>Banksia arborea</i>	P4	751261	6580140	Opportunistic	1
<i>Banksia arborea</i>	P4	751263	6580059	Opportunistic	4
<i>Banksia arborea</i>	P4	751017	6579879	Opportunistic	2
<i>Banksia arborea</i>	P4	751018	6580194	Opportunistic	1
<i>Banksia arborea</i>	P4	751018	6580168	Opportunistic	6
<i>Banksia arborea</i>	P4	751010	6580148	Opportunistic	3
<i>Banksia arborea</i>	P4	751033	6580092	Opportunistic	2
<i>Banksia arborea</i>	P4	751005	6579979	Opportunistic	2
<i>Banksia arborea</i>	P4	750296	6580699	Opportunistic	1
<i>Banksia arborea</i>	P4	750296	6580752	Opportunistic	3
<i>Banksia arborea</i>	P4	750824	6580530	Opportunistic	6
<i>Banksia arborea</i>	P4	751065	6580653	Opportunistic	1
<i>Banksia arborea</i>	P4	750823	6580434	Opportunistic	3
<i>Banksia arborea</i>	P4	750821	6580560	Opportunistic	2
<i>Banksia arborea</i>	P4	750813	6580493	Opportunistic	3
<i>Banksia arborea</i>	P4	748676	6583073	Opportunistic	5
<i>Banksia arborea</i>	P4	746359	6583364	Opportunistic	3
<i>Banksia arborea</i>	P4	746334	6583290	Opportunistic	2
<i>Banksia arborea</i>	P4	748636	6583118	Opportunistic	10
<i>Banksia arborea</i>	P4	746368	6583211	Opportunistic	1
<i>Banksia arborea</i>	P4	748618	6583138	Opportunistic	10
<i>Banksia arborea</i>	P4	748452	6582280	Opportunistic	2
<i>Banksia arborea</i>	P4	748583	6583152	Opportunistic	7
<i>Banksia arborea</i>	P4	748453	6582303	Opportunistic	5
<i>Banksia arborea</i>	P4	748561	6583181	Opportunistic	6
<i>Banksia arborea</i>	P4	748446	6582337	Opportunistic	6
<i>Banksia arborea</i>	P4	747642	6583165	Opportunistic	4
<i>Banksia arborea</i>	P4	747640	6583116	Opportunistic	2



<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	747656	6583074	Opportunistic	5
<i>Banksia arborea</i>	P4	747652	6583030	Opportunistic	3
<i>Banksia arborea</i>	P4	747656	6583001	Opportunistic	2
<i>Banksia arborea</i>	P4	747064	6583382	Opportunistic	5
<i>Banksia arborea</i>	P4	747060	6583324	Opportunistic	1
<i>Banksia arborea</i>	P4	747055	6583273	Opportunistic	2
<i>Banksia arborea</i>	P4	747048	6583270	Opportunistic	1
<i>Banksia arborea</i>	P4	746749	6583386	Opportunistic	8
<i>Banksia arborea</i>	P4	746333	6583623	Opportunistic	1
<i>Banksia arborea</i>	P4	746739	6583435	Opportunistic	1
<i>Banksia arborea</i>	P4	746332	6583586	Opportunistic	2
<i>Banksia arborea</i>	P4	746762	6583484	Opportunistic	3
<i>Banksia arborea</i>	P4	746347	6583546	Opportunistic	1
<i>Banksia arborea</i>	P4	746450	6583545	Opportunistic	2
<i>Banksia arborea</i>	P4	746330	6583579	Opportunistic	3
<i>Banksia arborea</i>	P4	746336	6583506	Opportunistic	3
<i>Banksia arborea</i>	P4	746455	6583500	Opportunistic	2
<i>Banksia arborea</i>	P4	746344	6583473	Opportunistic	1
<i>Banksia arborea</i>	P4	746451	6583445	Opportunistic	4
<i>Banksia arborea</i>	P4	748735	6583011	Opportunistic	1
<i>Banksia arborea</i>	P4	746362	6583418	Opportunistic	3
<i>Banksia arborea</i>	P4	748541	6582119	Opportunistic	2
<i>Banksia arborea</i>	P4	748560	6582134	Opportunistic	3
<i>Banksia arborea</i>	P4	748549	6582177	Opportunistic	2
<i>Banksia arborea</i>	P4	748551	6582222	Opportunistic	2
<i>Banksia arborea</i>	P4	748547	6582261	Opportunistic	3
<i>Banksia arborea</i>	P4	748558	6582298	Opportunistic	4
<i>Banksia arborea</i>	P4	746954	6583257	Opportunistic	4
<i>Banksia arborea</i>	P4	746666	6583416	Opportunistic	4
<i>Banksia arborea</i>	P4	746655	6583441	Opportunistic	1
<i>Banksia arborea</i>	P4	746641	6583563	Opportunistic	5
<i>Banksia arborea</i>	P4	748544	6582317	Opportunistic	3
<i>Banksia arborea</i>	P4	748555	6582339	Opportunistic	3
<i>Banksia arborea</i>	P4	748555	6582372	Opportunistic	1
<i>Banksia arborea</i>	P4	748246	6582739	Opportunistic	1
<i>Banksia arborea</i>	P4	748244	6582504	Opportunistic	12
<i>Banksia arborea</i>	P4	748253	6582480	Opportunistic	6
<i>Banksia arborea</i>	P4	748251	6582458	Opportunistic	2
<i>Banksia arborea</i>	P4	747956	6582752	Opportunistic	8
<i>Banksia arborea</i>	P4	747947	6582783	Opportunistic	3
<i>Banksia arborea</i>	P4	747944	6582826	Opportunistic	1
<i>Banksia arborea</i>	P4	748430	6582439	Opportunistic	2
<i>Banksia arborea</i>	P4	748446	6582472	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	748436	6582500	Opportunistic	5
<i>Banksia arborea</i>	P4	748445	6582530	Opportunistic	4
<i>Banksia arborea</i>	P4	748137	6582838	Opportunistic	4
<i>Banksia arborea</i>	P4	748139	6582813	Opportunistic	1
<i>Banksia arborea</i>	P4	748146	6582775	Opportunistic	5
<i>Banksia arborea</i>	P4	748149	6582751	Opportunistic	2
<i>Banksia arborea</i>	P4	748163	6582730	Opportunistic	1
<i>Banksia arborea</i>	P4	748147	6582712	Opportunistic	1
<i>Banksia arborea</i>	P4	748153	6582560	Opportunistic	4
<i>Banksia arborea</i>	P4	748151	6582542	Opportunistic	4
<i>Banksia arborea</i>	P4	747851	6582812	Opportunistic	9
<i>Banksia arborea</i>	P4	747853	6582832	Opportunistic	7
<i>Banksia arborea</i>	P4	747851	6582858	Opportunistic	1
<i>Banksia arborea</i>	P4	747849	6582888	Opportunistic	5
<i>Banksia arborea</i>	P4	747853	6582899	Opportunistic	2
<i>Banksia arborea</i>	P4	747835	6582908	Opportunistic	6
<i>Banksia arborea</i>	P4	747825	6582931	Opportunistic	3
<i>Banksia arborea</i>	P4	747832	6582962	Opportunistic	4
<i>Banksia arborea</i>	P4	747761	6583013	Opportunistic	2
<i>Banksia arborea</i>	P4	747481	6583165	Opportunistic	2
<i>Banksia arborea</i>	P4	747545	6583147	Opportunistic	1
<i>Banksia arborea</i>	P4	747542	6583106	Opportunistic	1
<i>Banksia arborea</i>	P4	747249	6583203	Opportunistic	1
<i>Banksia arborea</i>	P4	747253	6583218	Opportunistic	2
<i>Banksia arborea</i>	P4	747244	6583249	Opportunistic	1
<i>Banksia arborea</i>	P4	746962	6583305	Opportunistic	4
<i>Banksia arborea</i>	P4	746943	6583340	Opportunistic	4
<i>Banksia arborea</i>	P4	747946	6582896	Opportunistic	1
<i>Banksia arborea</i>	P4	747965	6583018	Opportunistic	2
<i>Banksia arborea</i>	P4	748453	6582364	Opportunistic	4
<i>Banksia arborea</i>	P4	748448	6582485	Opportunistic	4
<i>Banksia arborea</i>	P4	750052	6581151	Opportunistic	10
<i>Banksia arborea</i>	P4	750055	6580935	Opportunistic	3
<i>Banksia arborea</i>	P4	750060	6580903	Opportunistic	4
<i>Banksia arborea</i>	P4	750064	6580874	Opportunistic	8
<i>Banksia arborea</i>	P4	750059	6580839	Opportunistic	5
<i>Banksia arborea</i>	P4	750048	6580770	Opportunistic	1
<i>Banksia arborea</i>	P4	750063	6580734	Opportunistic	10
<i>Banksia arborea</i>	P4	750060	6580702	Opportunistic	15
<i>Banksia arborea</i>	P4	750059	6580679	Opportunistic	15
<i>Banksia arborea</i>	P4	750053	6580656	Opportunistic	10
<i>Banksia arborea</i>	P4	750047	6580631	Opportunistic	12
<i>Banksia arborea</i>	P4	750298	6579558	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750293	6579600	Opportunistic	4
<i>Banksia arborea</i>	P4	750287	6579639	Opportunistic	20
<i>Banksia arborea</i>	P4	750297	6579669	Opportunistic	30
<i>Banksia arborea</i>	P4	750313	6579786	Opportunistic	2
<i>Banksia arborea</i>	P4	750301	6579850	Opportunistic	1
<i>Banksia arborea</i>	P4	750307	6579894	Opportunistic	7
<i>Banksia arborea</i>	P4	750300	6580460	Opportunistic	5
<i>Banksia arborea</i>	P4	750300	6580432	Opportunistic	3
<i>Banksia arborea</i>	P4	750298	6580557	Opportunistic	1
<i>Banksia arborea</i>	P4	749622	6581664	Opportunistic	10
<i>Banksia arborea</i>	P4	750664	6580870	Opportunistic	5
<i>Banksia arborea</i>	P4	751471	6580453	Opportunistic	1
<i>Banksia arborea</i>	P4	750427	6580615	Opportunistic	10
<i>Banksia arborea</i>	P4	750399	6580663	Opportunistic	6
<i>Banksia arborea</i>	P4	750527	6580698	Opportunistic	7
<i>Banksia arborea</i>	P4	751187	6580168	Opportunistic	5
<i>Banksia arborea</i>	P4	751136	6580154	Opportunistic	4
<i>Banksia arborea</i>	P4	751111	6580123	Opportunistic	2
<i>Banksia arborea</i>	P4	751060	6580145	Opportunistic	1
<i>Banksia arborea</i>	P4	751041	6580171	Opportunistic	6
<i>Banksia arborea</i>	P4	750801	6580397	Opportunistic	6
<i>Banksia arborea</i>	P4	748116	6581638	Opportunistic	8
<i>Banksia arborea</i>	P4	748132	6581619	Opportunistic	13
<i>Banksia arborea</i>	P4	750887	6580434	Opportunistic	4
<i>Banksia arborea</i>	P4	750860	6580543	Opportunistic	6
<i>Banksia arborea</i>	P4	750891	6580585	Opportunistic	4
<i>Banksia arborea</i>	P4	750838	6580576	Opportunistic	5
<i>Banksia arborea</i>	P4	750743	6580537	Opportunistic	8
<i>Banksia arborea</i>	P4	751421	6580139	Opportunistic	4
<i>Banksia arborea</i>	P4	750688	6580533	Opportunistic	10
<i>Banksia arborea</i>	P4	750640	6580543	Opportunistic	50
<i>Banksia arborea</i>	P4	750460	6580602	Opportunistic	10
<i>Banksia arborea</i>	P4	750036	6581403	Opportunistic	4
<i>Banksia arborea</i>	P4	750087	6581149	Opportunistic	3
<i>Banksia arborea</i>	P4	750097	6580951	Opportunistic	6
<i>Banksia arborea</i>	P4	750099	6580917	Opportunistic	3
<i>Banksia arborea</i>	P4	750102	6580888	Opportunistic	5
<i>Banksia arborea</i>	P4	750108	6580831	Opportunistic	3
<i>Banksia arborea</i>	P4	750098	6580789	Opportunistic	2
<i>Banksia arborea</i>	P4	750102	6580746	Opportunistic	2
<i>Banksia arborea</i>	P4	750093	6580714	Opportunistic	2
<i>Banksia arborea</i>	P4	750101	6580679	Opportunistic	6
<i>Banksia arborea</i>	P4	750098	6580649	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750337	6579588	Opportunistic	2
<i>Banksia arborea</i>	P4	750338	6579600	Opportunistic	3
<i>Banksia arborea</i>	P4	750339	6579679	Opportunistic	3
<i>Banksia arborea</i>	P4	750345	6579723	Opportunistic	4
<i>Banksia arborea</i>	P4	750339	6579750	Opportunistic	5
<i>Banksia arborea</i>	P4	750342	6579768	Opportunistic	4
<i>Banksia arborea</i>	P4	750344	6579783	Opportunistic	6
<i>Banksia arborea</i>	P4	750345	6579811	Opportunistic	5
<i>Banksia arborea</i>	P4	750342	6579833	Opportunistic	3
<i>Banksia arborea</i>	P4	750343	6579853	Opportunistic	8
<i>Banksia arborea</i>	P4	750341	6579880	Opportunistic	12
<i>Banksia arborea</i>	P4	750343	6580307	Opportunistic	3
<i>Banksia arborea</i>	P4	750346	6580333	Opportunistic	5
<i>Banksia arborea</i>	P4	750343	6580363	Opportunistic	4
<i>Banksia arborea</i>	P4	750346	6580379	Opportunistic	4
<i>Banksia arborea</i>	P4	750340	6580392	Opportunistic	6
<i>Banksia arborea</i>	P4	750345	6580442	Opportunistic	5
<i>Banksia arborea</i>	P4	751057	6580433	Opportunistic	1
<i>Banksia arborea</i>	P4	751047	6580179	Opportunistic	1
<i>Banksia arborea</i>	P4	751062	6580153	Opportunistic	3
<i>Banksia arborea</i>	P4	751056	6580099	Opportunistic	5
<i>Banksia arborea</i>	P4	751069	6580070	Opportunistic	1
<i>Banksia arborea</i>	P4	751052	6579992	Opportunistic	1
<i>Banksia arborea</i>	P4	751297	6579790	Opportunistic	2
<i>Banksia arborea</i>	P4	751294	6579816	Opportunistic	4
<i>Banksia arborea</i>	P4	751295	6580041	Opportunistic	1
<i>Banksia arborea</i>	P4	751293	6580060	Opportunistic	6
<i>Banksia arborea</i>	P4	751302	6580098	Opportunistic	4
<i>Banksia arborea</i>	P4	750582	6580887	Opportunistic	1
<i>Banksia arborea</i>	P4	750581	6579910	Opportunistic	2
<i>Banksia arborea</i>	P4	750582	6579884	Opportunistic	5
<i>Banksia arborea</i>	P4	750582	6579772	Opportunistic	2
<i>Banksia arborea</i>	P4	750582	6579731	Opportunistic	12
<i>Banksia arborea</i>	P4	750828	6579992	Opportunistic	7
<i>Banksia arborea</i>	P4	750832	6580029	Opportunistic	4
<i>Banksia arborea</i>	P4	750821	6580415	Opportunistic	3
<i>Banksia arborea</i>	P4	750573	6580865	Opportunistic	2
<i>Banksia arborea</i>	P4	750584	6580725	Opportunistic	5
<i>Banksia arborea</i>	P4	750592	6580669	Opportunistic	2
<i>Banksia arborea</i>	P4	750582	6580522	Opportunistic	1
<i>Banksia arborea</i>	P4	750579	6580478	Opportunistic	5
<i>Banksia arborea</i>	P4	750579	6580461	Opportunistic	10
<i>Banksia arborea</i>	P4	750582	6580440	Opportunistic	5



<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Banksia arborea</i>	P4	750581	6580410	Opportunistic	10
<i>Banksia arborea</i>	P4	750585	6580372	Opportunistic	3
<i>Banksia arborea</i>	P4	750582	6580352	Opportunistic	6
<i>Banksia arborea</i>	P4	750586	6580311	Opportunistic	4
<i>Banksia arborea</i>	P4	750576	6580276	Opportunistic	6
<i>Banksia arborea</i>	P4	750581	6580254	Opportunistic	1
<i>Banksia arborea</i>	P4	750579	6580217	Opportunistic	5
<i>Banksia arborea</i>	P4	750581	6580184	Opportunistic	2
<i>Banksia arborea</i>	P4	750577	6580155	Opportunistic	1
<i>Banksia arborea</i>	P4	746515	6583441	KOOL-083	1
<i>Banksia arborea</i>	P4	743200	6585278	KOOL-022	1
<i>Banksia arborea</i>	P4	750441	6579835	KOOL-192	1
<i>Banksia arborea</i>	P4	749388	6581535	KOOL-132	1
<i>Banksia arborea</i>	P4	749276	6581951	KOOL-129	1
<i>Banksia arborea</i>	P4	745508	6584475	KOOL-063	1
<i>Banksia arborea</i>	P4	751132	6579941	KOOL-197	1
<i>Banksia arborea</i>	P4	751064	6580094	KOOL-187	3
<i>Banksia arborea</i>	P4	750928	6580441	KOOL-179	2
<i>Banksia arborea</i>	P4	748923	6581717	KOOL-136	1
<i>Banksia arborea</i>	P4	750564	6580263	KOOL-180	1
<i>Banksia arborea</i>	P4	743509	6584889	KOOL-041	1
<i>Banksia arborea</i>	P4	750813	6579998	KOOL-196	1
<i>Banksia arborea</i>	P4	750081	6580768	KOOL-150	1
<i>Banksia arborea</i>	P4	749451	6581229	KOOL-146	1
<i>Banksia arborea</i>	P4	750422	6580255	KOOL-193	1
<i>Banksia arborea</i>	P4	743386	6585056	KOOL-043	1
<i>Banksia arborea</i>	P4	745273	6584522	KOOL-062	1
<i>Banksia arborea</i>	P4	745293	6584233	KOOL-065	1
<i>Banksia arborea</i>	P4	750145	6580837	KOOL-232	1
<i>Banksia arborea</i>	P4	744801	6584600	KOOL-055	1
<i>Banksia arborea</i>	P4	746979	6583323	KOOL-087	1
<i>Banksia arborea</i>	P4	749533	6581063	KOOL-144	1
<i>Beyeria rostellata</i>	P1	750137	6580586	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750388	6579774	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750132	6580735	Opportunistic	15
<i>Beyeria rostellata</i>	P1	750143	6580682	Opportunistic	15
<i>Beyeria rostellata</i>	P1	750619	6580526	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750623	6580366	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750858	6580460	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750859	6580412	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750934	6579935	Opportunistic	6
<i>Beyeria rostellata</i>	P1	750697	6580421	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750577	6580155	Opportunistic	5

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Beyeria rostellata</i>	P1	750579	6580461	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750582	6580440	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750821	6580415	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750823	6580434	Opportunistic	3
<i>Beyeria rostellata</i>	P1	751293	6580060	Opportunistic	20
<i>Beyeria rostellata</i>	P1	751295	6580041	Opportunistic	15
<i>Beyeria rostellata</i>	P1	751055	6580415	Opportunistic	4
<i>Beyeria rostellata</i>	P1	751063	6580405	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750343	6580363	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750343	6579853	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750103	6580586	Opportunistic	6
<i>Beyeria rostellata</i>	P1	750337	6579588	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750106	6580631	Opportunistic	6
<i>Beyeria rostellata</i>	P1	750105	6580618	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750101	6580679	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750098	6580649	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750101	6580745	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750093	6580714	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750627	6580539	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750484	6580688	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750453	6580684	Opportunistic	5
<i>Beyeria rostellata</i>	P1	746435	6583470	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750294	6580495	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750821	6580460	Opportunistic	22
<i>Beyeria rostellata</i>	P1	750813	6580493	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750662	6580360	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750656	6580382	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750660	6580370	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750658	6580286	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750654	6580396	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750184	6580561	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750179	6580547	Opportunistic	1
<i>Beyeria rostellata</i>	P1	750426	6579843	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750425	6579834	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750421	6579787	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750420	6579796	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750420	6579775	Opportunistic	4
<i>Beyeria rostellata</i>	P1	750418	6580203	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750430	6580257	Opportunistic	4
<i>Beyeria rostellata</i>	P1	750174	6580684	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750175	6580663	Opportunistic	6
<i>Beyeria rostellata</i>	P1	750176	6580653	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750180	6580638	Opportunistic	3

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Beyeria rostellata</i>	P1	750171	6580596	Opportunistic	1
<i>Beyeria rostellata</i>	P1	751142	6580052	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750907	6579952	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750660	6580338	Opportunistic	2
<i>Beyeria rostellata</i>	P1	750661	6580312	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750908	6580080	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750297	6580607	Opportunistic	10
<i>Beyeria rostellata</i>	P1	751011	6580425	Opportunistic	10
<i>Beyeria rostellata</i>	P1	751021	6580399	Opportunistic	10
<i>Beyeria rostellata</i>	P1	751263	6580059	Opportunistic	15
<i>Beyeria rostellata</i>	P1	750540	6580153	Opportunistic	15
<i>Beyeria rostellata</i>	P1	750543	6580125	Opportunistic	30
<i>Beyeria rostellata</i>	P1	750534	6580251	Opportunistic	15
<i>Beyeria rostellata</i>	P1	750535	6580227	Opportunistic	10
<i>Beyeria rostellata</i>	P1	751020	6579850	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750544	6580071	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750782	6580443	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750771	6580385	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750776	6580413	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750785	6580474	Opportunistic	10
<i>Beyeria rostellata</i>	P1	750735	6580450	Opportunistic	22
<i>Beyeria rostellata</i>	P1	750739	6580424	Opportunistic	40
<i>Beyeria rostellata</i>	P1	750733	6580477	Opportunistic	6
<i>Beyeria rostellata</i>	P1	750494	6580687	Opportunistic	4
<i>Beyeria rostellata</i>	P1	750699	6580383	Opportunistic	16
<i>Beyeria rostellata</i>	P1	750458	6580231	Opportunistic	20
<i>Beyeria rostellata</i>	P1	750457	6580203	Opportunistic	8
<i>Beyeria rostellata</i>	P1	750733	6580394	Opportunistic	33
<i>Beyeria rostellata</i>	P1	750215	6580653	Opportunistic	9
<i>Beyeria rostellata</i>	P1	750211	6580623	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750217	6580673	Opportunistic	8
<i>Beyeria rostellata</i>	P1	750512	6580154	Opportunistic	7
<i>Beyeria rostellata</i>	P1	750496	6580085	Opportunistic	36
<i>Beyeria rostellata</i>	P1	750257	6580483	Opportunistic	5
<i>Beyeria rostellata</i>	P1	750259	6580573	Opportunistic	16
<i>Beyeria rostellata</i>	P1	750256	6580532	Opportunistic	3
<i>Beyeria rostellata</i>	P1	750256	6580624	Opportunistic	37
<i>Beyeria rostellata</i>	P1	748132	6582853	KOOL-235	1
<i>Beyeria rostellata</i>	P1	749451	6581229	KOOL-146	1
<i>Beyeria rostellata</i>	P1	750279	6580514	KOOL-174	1
<i>Beyeria rostellata</i>	P1	750081	6580768	KOOL-150	1
<i>Beyeria rostellata</i>	P1	750422	6580255	KOOL-193	1
<i>Beyeria rostellata</i>	P1	751132	6579941	KOOL-197	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Beyeria rostellata</i>	P1	744801	6584600	KOOL-055	1
<i>Beyeria rostellata</i>	P1	750441	6579835	KOOL-192	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749005	6581110	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749004	6581118	Opportunistic	9
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749013	6581112	Opportunistic	6
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749009	6581125	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749002	6581141	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749010	6581190	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749018	6581198	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749000	6581212	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749001	6581202	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748694	6581147	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748640	6581150	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748678	6581148	Opportunistic	8
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748984	6581095	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748836	6580880	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748988	6581137	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749031	6580895	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749022	6580828	Opportunistic	19
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749044	6580810	Opportunistic	12
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749016	6580866	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749033	6580886	Opportunistic	3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749010	6580847	Opportunistic	22
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749058	6580815	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749079	6580872	Opportunistic	17
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749093	6580887	Opportunistic	12
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749110	6580902	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749219	6580958	Opportunistic	10



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749183	6580947	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749206	6580958	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749166	6580940	Opportunistic	7
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749073	6580811	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749141	6580920	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749154	6580927	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748584	6581078	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748640	6581068	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748583	6581092	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749123	6580883	Opportunistic	25
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748653	6581088	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749134	6580899	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749281	6580993	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749305	6581002	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749340	6581015	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748562	6581069	Opportunistic	3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749296	6581018	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749321	6581018	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749344	6581026	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749067	6580884	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749128	6580932	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749152	6580952	Opportunistic	100
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749181	6580966	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749203	6580972	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749153	6580966	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749117	6580925	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749088	6580900	Opportunistic	50

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749106	6580912	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749055	6580852	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749048	6580874	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749036	6580822	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749046	6580822	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749029	6580824	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749027	6580813	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749039	6580882	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749028	6580858	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749030	6580844	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749034	6580842	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748583	6581057	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748738	6581045	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748644	6581053	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748596	6581108	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748664	6581110	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748619	6581105	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748702	6581109	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749221	6580969	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749122	6580865	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749145	6580900	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749145	6580900	Opportunistic	30
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749136	6580885	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748825	6581340	Opportunistic	19
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748925	6581370	Opportunistic	74
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748951	6581366	Opportunistic	68
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748918	6581280	Opportunistic	31

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748903	6581250	Opportunistic	31
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748973	6581395	Opportunistic	75
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748999	6581401	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749112	6581447	Opportunistic	3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749126	6581429	Opportunistic	16
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749025	6581385	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749030	6581402	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748893	6581278	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748884	6581259	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749064	6581339	Opportunistic	14
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748825	6581334	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748807	6581338	Opportunistic	7
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748926	6581337	Opportunistic	4
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748922	6581352	Opportunistic	18
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748943	6581352	Opportunistic	25
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748958	6581369	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748983	6581374	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748996	6581377	Opportunistic	50
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749011	6581380	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749013	6581100	Opportunistic	6
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748869	6580880	Opportunistic	7
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748879	6580894	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748888	6580908	Opportunistic	3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748900	6580905	Opportunistic	4
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748894	6580884	Opportunistic	40
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748875	6580862	Opportunistic	20
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748881	6580845	Opportunistic	20

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748898	6580843	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748718	6581116	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748725	6581137	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748693	6581129	Opportunistic	4
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748687	6581128	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748914	6580910	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748936	6580949	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748939	6580964	Opportunistic	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748917	6580851	Opportunistic	2
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749012	6581103	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748977	6581116	Opportunistic	8
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748653	6581128	Opportunistic	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748632	6581128	Opportunistic	15
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748985	6581137	Opportunistic	3
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748748	6581031	Opportunistic	5
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748998	6581093	KOOL-140	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748805	6581337	KOOL-139	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749276	6581951	KOOL-129	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749154	6580933	KOOL-138	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	746515	6583441	KOOL-083	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	749451	6581229	KOOL-146	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	746406	6583575	KOOL-236	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	745773	6584147	KOOL-069	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	745293	6584233	KOOL-065	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	746247	6583662	KOOL-081	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	745933	6583999	KOOL-279	1
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	748923	6581717	KOOL-136	1



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	745692	6583833	KOOL-067	10
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>	P3	746346	6583233	KOOL-085	1
<i>Lepidium genistoides</i>	P3	750262	6579599	Opportunistic	20
<i>Lepidium genistoides</i>	P3	750292	6579531	Opportunistic	100
<i>Lepidosperma</i> aff. <i>ferriculmen</i>	Potentially undescribed	750102	6582624	Opportunistic	5
<i>Lepidosperma</i> aff. <i>ferriculmen</i>	Potentially undescribed	750126	6582591	Opportunistic	3
<i>Lepidosperma ferricola</i>	P3	750935	6579920	Opportunistic	30
<i>Lepidosperma ferricola</i>	P3	750613	6579715	Opportunistic	30
<i>Lepidosperma ferricola</i>	P3	750858	6579923	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	749027	6580813	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	749046	6580822	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	749067	6580884	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	751258	6579771	Opportunistic	10
<i>Lepidosperma ferricola</i>	P3	751263	6580059	Opportunistic	40
<i>Lepidosperma ferricola</i>	P3	751023	6580377	Opportunistic	2
<i>Lepidosperma ferricola</i>	P3	751011	6580425	Opportunistic	2
<i>Lepidosperma ferricola</i>	P3	751021	6580399	Opportunistic	80
<i>Lepidosperma ferricola</i>	P3	751005	6579979	Opportunistic	35
<i>Lepidosperma ferricola</i>	P3	751019	6579962	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	751458	6579955	Opportunistic	25
<i>Lepidosperma ferricola</i>	P3	751458	6580047	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	750975	6579960	Opportunistic	2
<i>Lepidosperma ferricola</i>	P3	750983	6579991	Opportunistic	100
<i>Lepidosperma ferricola</i>	P3	750984	6579843	Opportunistic	10
<i>Lepidosperma ferricola</i>	P3	748352	6582759	Opportunistic	30
<i>Lepidosperma ferricola</i>	P3	750220	6580561	Opportunistic	100
<i>Lepidosperma ferricola</i>	P3	750214	6580547	Opportunistic	1
<i>Lepidosperma ferricola</i>	P3	751424	6580012	Opportunistic	70
<i>Lepidosperma ferricola</i>	P3	751177	6579791	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	748619	6581105	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	748583	6581057	Opportunistic	10
<i>Lepidosperma ferricola</i>	P3	748428	6582802	Opportunistic	3
<i>Lepidosperma ferricola</i>	P3	748567	6583069	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	748597	6583055	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	748627	6583001	Opportunistic	100
<i>Lepidosperma ferricola</i>	P3	748474	6583176	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	748530	6583104	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	750252	6580488	Opportunistic	3
<i>Lepidosperma ferricola</i>	P3	750260	6580554	Opportunistic	9
<i>Lepidosperma ferricola</i>	P3	750256	6580532	Opportunistic	100
<i>Lepidosperma ferricola</i>	P3	748531	6583099	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	748578	6583081	Opportunistic	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Lepidosperma ferricola</i>	P3	748611	6583040	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	750294	6580495	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	750295	6580519	Opportunistic	15
<i>Lepidosperma ferricola</i>	P3	748584	6581078	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	748485	6583149	Opportunistic	30
<i>Lepidosperma ferricola</i>	P3	749123	6580883	Opportunistic	5
<i>Lepidosperma ferricola</i>	P3	749073	6580811	Opportunistic	30
<i>Lepidosperma ferricola</i>	P3	749044	6580810	Opportunistic	7
<i>Lepidosperma ferricola</i>	P3	749058	6580815	Opportunistic	6
<i>Lepidosperma ferricola</i>	P3	750907	6579949	Opportunistic	200
<i>Lepidosperma ferricola</i>	P3	750908	6579938	Opportunistic	100
<i>Lepidosperma ferricola</i>	P3	750901	6579897	Opportunistic	60
<i>Lepidosperma ferricola</i>	P3	750905	6579918	Opportunistic	60
<i>Lepidosperma ferricola</i>	P3	751142	6580004	Opportunistic	1
<i>Lepidosperma ferricola</i>	P3	750582	6579731	Opportunistic	50
<i>Lepidosperma ferricola</i>	P3	751063	6580405	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	750586	6579754	Opportunistic	3
<i>Lepidosperma ferricola</i>	P3	751053	6580423	Opportunistic	2
<i>Lepidosperma ferricola</i>	P3	751055	6580415	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	751299	6579766	Opportunistic	13
<i>Lepidosperma ferricola</i>	P3	751293	6580060	Opportunistic	20
<i>Lepidosperma ferricola</i>	P3	749605	6581616	Opportunistic	10
<i>Lepidosperma ferricola</i>	P3	751097	6579808	Opportunistic	10
<i>Lepidosperma ferricola</i>	P3	745933	6583999	KOOL-279	1
<i>Lepidosperma ferricola</i>	P3	746515	6583441	KOOL-083	1
<i>Lepidosperma ferricola</i>	P3	749620	6581640	KOOL-238	15
<i>Lepidosperma ferricola</i>	P3	750279	6580514	KOOL-174	1
<i>Lepidosperma ferricola</i>	P3	751161	6579803	KOOL-199	1
<i>Lepidosperma ferricola</i>	P3	749451	6581229	KOOL-146	1
<i>Lepidosperma ferricola</i>	P3	745773	6584147	KOOL-069	1
<i>Lepidosperma ferricola</i>	P3	744972	6584436	KOOL-064	1
<i>Lepidosperma ferricola</i>	P3	743509	6584889	KOOL-041	1
<i>Lepidosperma ferricola</i>	P3	745293	6584233	KOOL-065	1
<i>Lepidosperma ferricola</i>	P3	748132	6582853	KOOL-235	1
<i>Lepidosperma ferricola</i>	P3	745414	6585022	KOOL-059	10
<i>Lepidosperma ferricola</i>	P3	745692	6583833	KOOL-067	1
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109)	P3	749960	6580813	KOOL-188	1
<i>Stenanthemum newbeyi</i>	P3	750484	6580688	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750453	6580684	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	751221	6579824	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751206	6579780	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750801	6580397	Opportunistic	2

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	750640	6580543	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750733	6580540	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750887	6580434	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750850	6580641	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750870	6580587	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751060	6580506	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	751057	6580433	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751063	6580405	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751055	6580415	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751055	6580006	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751052	6579992	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751293	6580060	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751302	6580098	Opportunistic	7
<i>Stenanthemum newbeyi</i>	P3	750582	6580887	Opportunistic	7
<i>Stenanthemum newbeyi</i>	P3	751290	6580184	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	751299	6579766	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751060	6579909	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	751060	6579894	Opportunistic	9
<i>Stenanthemum newbeyi</i>	P3	751057	6579869	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	751059	6579876	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751061	6579763	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750101	6580589	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750103	6580586	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750336	6580609	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750582	6579731	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750582	6579772	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750586	6579754	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750823	6580434	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750823	6580434	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750821	6580415	Opportunistic	40
<i>Stenanthemum newbeyi</i>	P3	750582	6580440	Opportunistic	7
<i>Stenanthemum newbeyi</i>	P3	750579	6580461	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750592	6580669	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750580	6580586	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750582	6580522	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750584	6580725	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750578	6580795	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750579	6580126	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750570	6580105	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750577	6580155	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750579	6580217	Opportunistic	17
<i>Stenanthemum newbeyi</i>	P3	750581	6580184	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750586	6580311	Opportunistic	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	750576	6580276	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750858	6580372	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	750582	6580352	Opportunistic	25
<i>Stenanthemum newbeyi</i>	P3	750580	6579636	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750821	6580460	Opportunistic	14
<i>Stenanthemum newbeyi</i>	P3	750813	6580493	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750659	6579958	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750907	6579820	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750908	6579861	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750901	6579887	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	750902	6579901	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750900	6579926	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750907	6579952	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750904	6580417	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750904	6580417	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750894	6580442	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750295	6580519	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750297	6580583	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750300	6580432	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750300	6580460	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750301	6580417	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750177	6580586	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750190	6580581	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750420	6579775	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750420	6579796	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750423	6579820	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750425	6579834	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750421	6580265	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750421	6580208	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750431	6580255	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750174	6580657	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750171	6580595	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751135	6580092	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751142	6580052	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751131	6579965	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751133	6579952	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	751144	6579940	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	751137	6579922	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751135	6579804	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	751139	6579795	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	751131	6579742	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751141	6579722	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	751137	6579867	Opportunistic	3



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	751378	6580067	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751385	6580140	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	747944	6582826	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	748735	6583011	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	749013	6581331	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	748951	6581366	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750983	6579855	Opportunistic	27
<i>Stenanthemum newbeyi</i>	P3	750991	6579910	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750978	6579948	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750743	6580040	Opportunistic	14
<i>Stenanthemum newbeyi</i>	P3	750976	6579823	Opportunistic	33
<i>Stenanthemum newbeyi</i>	P3	750733	6580394	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750973	6580574	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750751	6580867	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750981	6580321	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750988	6580386	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750744	6580608	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750752	6580641	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750733	6580477	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750741	6580537	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750739	6580424	Opportunistic	25
<i>Stenanthemum newbeyi</i>	P3	750735	6580450	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	751177	6579791	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751421	6580212	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750699	6580383	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750694	6579942	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750698	6579629	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750938	6579810	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750938	6579810	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750938	6579859	Opportunistic	22
<i>Stenanthemum newbeyi</i>	P3	750935	6579920	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750457	6580203	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751172	6579926	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750455	6579784	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751173	6579975	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750215	6580653	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750216	6580591	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750220	6580705	Opportunistic	12
<i>Stenanthemum newbeyi</i>	P3	750219	6580685	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	750257	6580519	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750257	6580483	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750498	6579731	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750497	6579693	Opportunistic	20

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	750259	6580573	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750256	6580624	Opportunistic	23
<i>Stenanthemum newbeyi</i>	P3	750500	6579844	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750495	6579877	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750499	6580098	Opportunistic	13
<i>Stenanthemum newbeyi</i>	P3	750501	6580134	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750499	6580322	Opportunistic	9
<i>Stenanthemum newbeyi</i>	P3	750503	6580202	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750499	6580230	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751218	6579926	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	751222	6579812	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	751215	6579773	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751219	6580088	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750498	6580727	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750494	6580687	Opportunistic	7
<i>Stenanthemum newbeyi</i>	P3	750503	6580553	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750658	6580286	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750654	6580396	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750658	6580308	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750661	6580333	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751017	6579879	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	751020	6579850	Opportunistic	40
<i>Stenanthemum newbeyi</i>	P3	751020	6579900	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751023	6579936	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751011	6580425	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750656	6580375	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750656	6580346	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751021	6580399	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750662	6580361	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750297	6580607	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750307	6580664	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750292	6580710	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751018	6580651	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750661	6580829	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	751020	6580449	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750656	6580568	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750661	6580391	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	751263	6580059	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	751257	6580084	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	751261	6580140	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	751026	6579832	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750538	6580293	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750534	6580251	Opportunistic	25

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	750534	6580425	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750536	6580499	Opportunistic	1
<i>Stenanthemum newbeyi</i>	P3	750538	6580874	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750778	6580055	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750782	6580118	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750771	6580385	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750537	6579762	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750539	6579743	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750541	6579791	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750535	6580227	Opportunistic	25
<i>Stenanthemum newbeyi</i>	P3	750535	6580185	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750543	6580125	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750540	6580153	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750776	6580413	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750548	6579721	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750782	6580443	Opportunistic	50
<i>Stenanthemum newbeyi</i>	P3	750785	6580474	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750777	6580515	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750787	6580550	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	749064	6581339	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750132	6580735	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750137	6580586	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750389	6579737	Opportunistic	7
<i>Stenanthemum newbeyi</i>	P3	751102	6580486	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	751108	6580408	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751101	6580309	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750858	6579923	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750856	6579943	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750873	6580588	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750859	6580412	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750858	6580460	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750620	6580340	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750619	6580526	Opportunistic	15
<i>Stenanthemum newbeyi</i>	P3	750613	6580241	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750623	6579649	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	750628	6579566	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	750863	6579897	Opportunistic	14
<i>Stenanthemum newbeyi</i>	P3	750613	6579731	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	750623	6580366	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750615	6580539	Opportunistic	8
<i>Stenanthemum newbeyi</i>	P3	750619	6580639	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	750627	6580587	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	750620	6580862	Opportunistic	2

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Stenanthemum newbeyi</i>	P3	751339	6580085	Opportunistic	5
<i>Stenanthemum newbeyi</i>	P3	751343	6580200	Opportunistic	2
<i>Stenanthemum newbeyi</i>	P3	751097	6579953	Opportunistic	4
<i>Stenanthemum newbeyi</i>	P3	751092	6579860	Opportunistic	3
<i>Stenanthemum newbeyi</i>	P3	749011	6581380	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	749025	6581385	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	748958	6581369	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	748983	6581374	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750697	6580421	Opportunistic	14
<i>Stenanthemum newbeyi</i>	P3	750945	6580264	Opportunistic	6
<i>Stenanthemum newbeyi</i>	P3	750934	6579935	Opportunistic	20
<i>Stenanthemum newbeyi</i>	P3	750944	6579973	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750938	6580597	Opportunistic	30
<i>Stenanthemum newbeyi</i>	P3	750144	6581122	Opportunistic	10
<i>Stenanthemum newbeyi</i>	P3	750564	6580263	KOOL-180	1
<i>Stenanthemum newbeyi</i>	P3	750422	6580255	KOOL-193	1
<i>Stenanthemum newbeyi</i>	P3	750928	6580441	KOOL-179	5
<i>Stenanthemum newbeyi</i>	P3	746247	6583662	KOOL-081	1
<i>Stenanthemum newbeyi</i>	P3	744801	6584600	KOOL-055	1
<i>Stenanthemum newbeyi</i>	P3	745508	6584475	KOOL-063	1
<i>Stenanthemum newbeyi</i>	P3	745773	6584147	KOOL-069	1
<i>Stenanthemum newbeyi</i>	P3	750081	6580768	KOOL-150	1
<i>Stenanthemum newbeyi</i>	P3	751348	6580202	KOOL-186	15
<i>Stenanthemum newbeyi</i>	P3	748239	6582551	KOOL-110	1
<i>Stenanthemum newbeyi</i>	P3	750650	6579637	KOOL-206	1
<i>Stenanthemum newbeyi</i>	P3	749388	6581535	KOOL-132	1
<i>Stenanthemum newbeyi</i>	P3	745933	6583999	KOOL-279	1
<i>Stenanthemum newbeyi</i>	P3	750461	6580600	KOOL-173	3
<i>Stenanthemum newbeyi</i>	P3	750401	6580662	KOOL-172	1
<i>Stenanthemum newbeyi</i>	P3	744972	6584436	KOOL-064	1
<i>Stenanthemum newbeyi</i>	P3	751132	6579941	KOOL-197	1
<i>Stenanthemum newbeyi</i>	P3	748923	6581717	KOOL-136	1
<i>Stenanthemum newbeyi</i>	P3	749451	6581229	KOOL-146	1
<i>Stenanthemum newbeyi</i>	P3	750867	6580579	KOOL-176	5
<i>Stenanthemum newbeyi</i>	P3	746515	6583441	KOOL-083	1
<i>Stenanthemum newbeyi</i>	P3	751161	6579803	KOOL-199	1
<i>Stenanthemum newbeyi</i>	P3	750279	6580514	KOOL-174	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748640	6581068	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748727	6581067	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748743	6581070	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749134	6580899	Opportunistic	4



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749305	6581002	Opportunistic	8
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748678	6581089	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749141	6580920	Opportunistic	3
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749058	6580815	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749166	6580940	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749154	6580927	Opportunistic	3
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749183	6580947	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749281	6580993	Opportunistic	4
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749219	6580958	Opportunistic	12
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748971	6581001	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748996	6581107	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749007	6581145	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748988	6581137	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748972	6581037	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748609	6581140	Opportunistic	4
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749005	6581212	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749046	6580822	Opportunistic	4
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749106	6580912	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749117	6580925	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749128	6580932	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749296	6581007	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749203	6580972	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749221	6580969	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749036	6580822	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749034	6580842	Opportunistic	10
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749029	6580824	Opportunistic	10
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748664	6581057	Opportunistic	1

<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748738	6581045	Opportunistic	3
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748571	6581108	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748596	6581108	Opportunistic	8
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748702	6581109	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749123	6580761	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749145	6580900	Opportunistic	10
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749136	6580885	Opportunistic	8
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749122	6580865	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749145	6580900	Opportunistic	10
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748903	6581250	Opportunistic	21
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748918	6581280	Opportunistic	17
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748837	6581353	Opportunistic	15
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748811	6581315	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748834	6581315	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748986	6581024	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748996	6581053	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749013	6581100	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748860	6581269	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748882	6581245	Opportunistic	3
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748632	6581128	Opportunistic	4
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748748	6581031	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748702	6581188	Opportunistic	2
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749021	6581101	Opportunistic	5
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749012	6581103	Opportunistic	3
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748985	6581137	Opportunistic	4
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748687	6581128	Opportunistic	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748805	6581337	KOOL-139	1

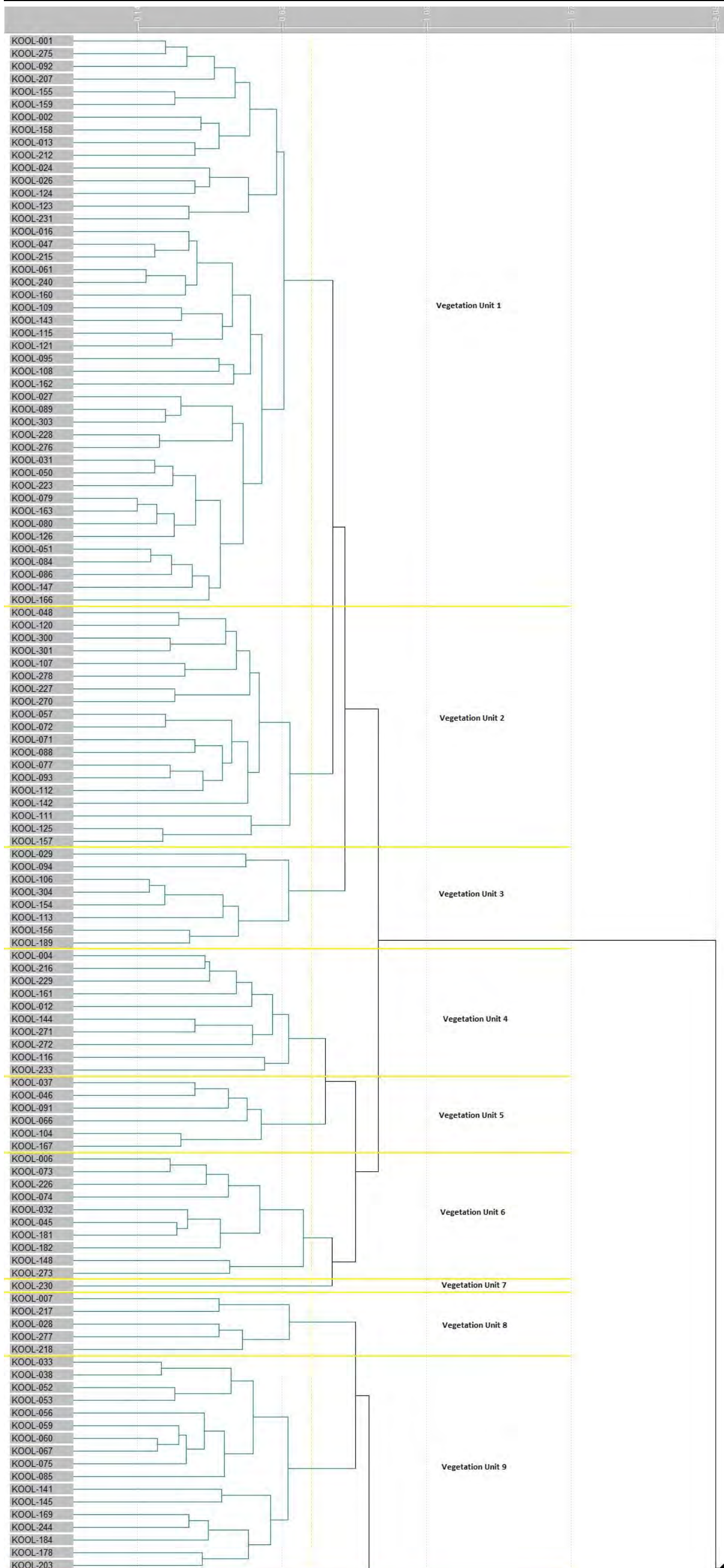
<b>Taxon</b>	<b>Conservation Code</b>	<b>Eastings</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	749154	6580933	KOOL-138	1
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)	P3	748998	6581093	KOOL-140	1
<i>Santalum spicatum</i>	Protected (commercial)	743838	6586594	KOOL-006	-
<i>Santalum spicatum</i>	Protected (commercial)	742079	6586197	KOOL-015	-
<i>Santalum spicatum</i>	Protected (commercial)	742050	6585763	KOOL-016	-
<i>Santalum spicatum</i>	Protected (commercial)	742715	6585797	KOOL-018	-
<i>Santalum spicatum</i>	Protected (commercial)	742984	6585380	KOOL-021	-
<i>Santalum spicatum</i>	Protected (commercial)	743200	6585278	KOOL-022	-
<i>Santalum spicatum</i>	Protected (commercial)	744340	6586238	KOOL-028	-
<i>Santalum spicatum</i>	Protected (commercial)	743478	6584795	KOOL-042	-
<i>Santalum spicatum</i>	Protected (commercial)	745034	6585475	KOOL-052	-
<i>Santalum spicatum</i>	Protected (commercial)	744801	6584600	KOOL-055	-
<i>Santalum spicatum</i>	Protected (commercial)	745242	6584792	KOOL-060	-
<i>Santalum spicatum</i>	Protected (commercial)	745273	6584522	KOOL-062	-
<i>Santalum spicatum</i>	Protected (commercial)	744972	6584436	KOOL-064	-
<i>Santalum spicatum</i>	Protected (commercial)	745928	6584779	KOOL-073	-
<i>Santalum spicatum</i>	Protected (commercial)	745950	6584685	KOOL-090	-
<i>Santalum spicatum</i>	Protected (commercial)	748744	6583120	KOOL-098	-
<i>Santalum spicatum</i>	Protected (commercial)	747618	6583033	KOOL-103	-
<i>Santalum spicatum</i>	Protected (commercial)	749309	6581788	KOOL-130	-
<i>Santalum spicatum</i>	Protected (commercial)	749388	6581535	KOOL-132	-
<i>Santalum spicatum</i>	Protected (commercial)	749621	6581518	KOOL-133	-
<i>Santalum spicatum</i>	Protected (commercial)	748923	6581717	KOOL-136	-
<i>Santalum spicatum</i>	Protected (commercial)	748292	6581730	KOOL-143	-
<i>Santalum spicatum</i>	Protected (commercial)	750081	6580768	KOOL-150	-
<i>Santalum spicatum</i>	Protected (commercial)	749862	6580410	KOOL-153	-
<i>Santalum spicatum</i>	Protected (commercial)	750798	6582082	KOOL-159	-
<i>Santalum spicatum</i>	Protected (commercial)	750798	6580846	KOOL-169	-
<i>Santalum spicatum</i>	Protected (commercial)	750401	6580662	KOOL-172	-
<i>Santalum spicatum</i>	Protected (commercial)	750279	6580514	KOOL-174	-
<i>Santalum spicatum</i>	Protected (commercial)	751316	6580529	KOOL-178	-
<i>Santalum spicatum</i>	Protected (commercial)	750564	6580263	KOOL-180	-
<i>Santalum spicatum</i>	Protected (commercial)	750808	6580352	KOOL-182	-
<i>Santalum spicatum</i>	Protected (commercial)	751406	6580358	KOOL-184	-
<i>Santalum spicatum</i>	Protected (commercial)	751348	6580202	KOOL-186	-
<i>Santalum spicatum</i>	Protected (commercial)	751064	6580094	KOOL-187	-
<i>Santalum spicatum</i>	Protected (commercial)	749960	6580813	KOOL-188	-
<i>Santalum spicatum</i>	Protected (commercial)	750309	6579819	KOOL-191	-
<i>Santalum spicatum</i>	Protected (commercial)	750441	6579835	KOOL-192	-
<i>Santalum spicatum</i>	Protected (commercial)	750422	6580255	KOOL-193	-
<i>Santalum spicatum</i>	Protected (commercial)	750813	6579998	KOOL-196	-
<i>Santalum spicatum</i>	Protected (commercial)	751132	6579941	KOOL-197	-

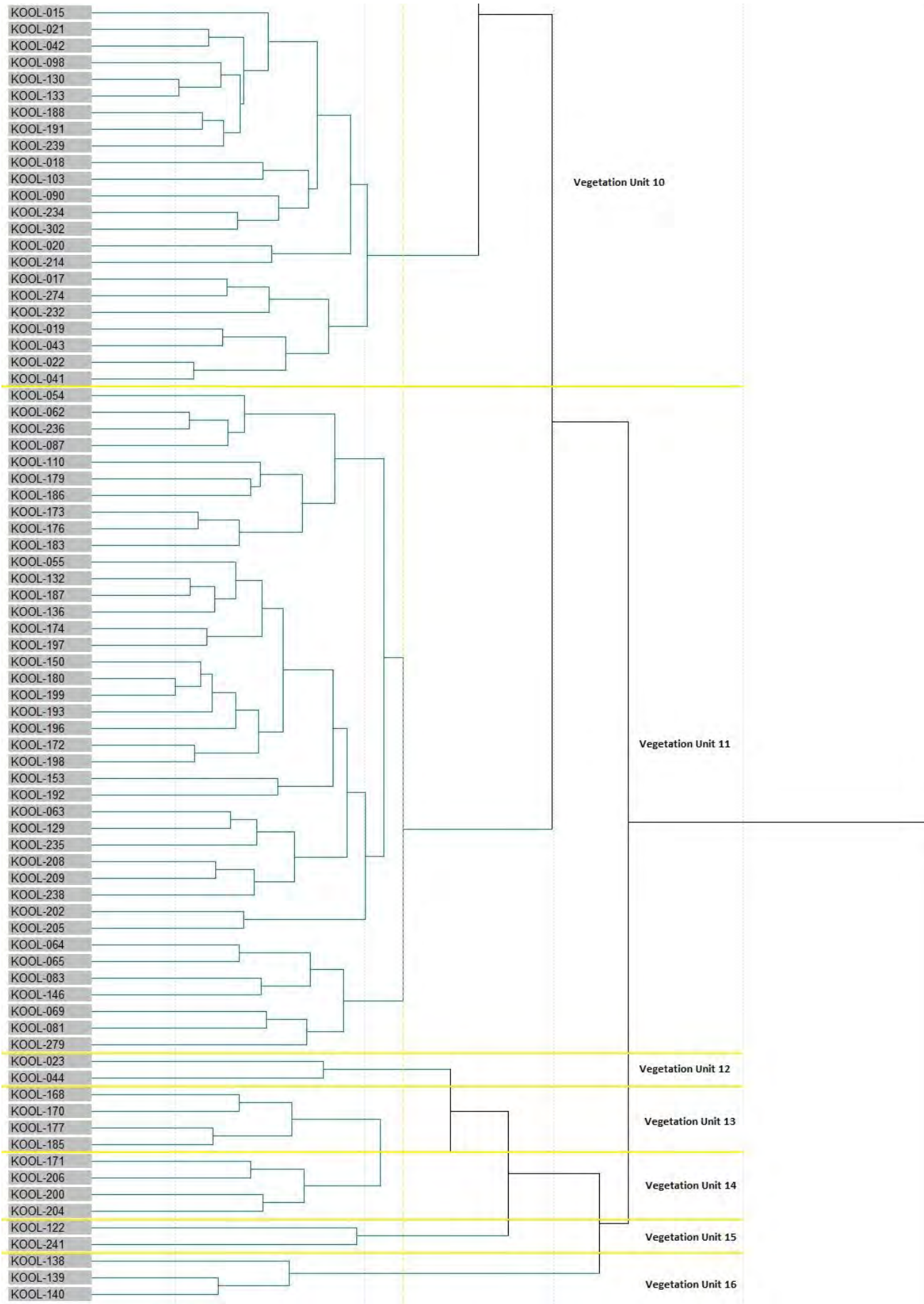
Taxon	Conservation Code	Eastings	Northing	Record Location	Count
<i>Santalum spicatum</i>	Protected (commercial)	751263	6579860	KOOL-198	-
<i>Santalum spicatum</i>	Protected (commercial)	751161	6579803	KOOL-199	-
<i>Santalum spicatum</i>	Protected (commercial)	741700	6586998	KOOL-208	-
<i>Santalum spicatum</i>	Protected (commercial)	741862	6586802	KOOL-209	-
<i>Santalum spicatum</i>	Protected (commercial)	749713	6582999	KOOL-230	-
<i>Santalum spicatum</i>	Protected (commercial)	747982	6581705	KOOL-234	-
<i>Santalum spicatum</i>	Protected (commercial)	748132	6582853	KOOL-235	-
<i>Santalum spicatum</i>	Protected (commercial)	746406	6583575	KOOL-236	-
<i>Santalum spicatum</i>	Protected (commercial)	749523	6581787	KOOL-239	-
<i>Santalum spicatum</i>	Protected (commercial)	750837	6581186	KOOL-244	-
<i>Santalum spicatum</i>	Protected (commercial)	748669	6581507	KOOL-272	-
<i>Santalum spicatum</i>	Protected (commercial)	741626	6586894	KOOL-274	-
<i>Acetosa vesicaria</i>	Introduced	749455	6581520	Opportunistic	2
<i>Acetosa vesicaria</i>	Introduced	743200	6585278	KOOL-022	1
<i>Brassica tournefortii</i>	Introduced	743509	6584889	KOOL-041	1
<i>Brassica tournefortii</i>	Introduced	743200	6585278	KOOL-022	1
<i>Bromus rubens</i>	Introduced	743200	6585278	KOOL-022	1
<i>Carrichtera annua</i>	Introduced	748248	6584182	Opportunistic	10
<i>Carrichtera annua</i>	Introduced	748225	6584174	Opportunistic	15
<i>Carrichtera annua</i>	Introduced	748088	6583111	Opportunistic	3
<i>Carrichtera annua</i>	Introduced	749459	6583178	Opportunistic	40
<i>Carrichtera annua</i>	Introduced	741497	6586711	Opportunistic	50
<i>Carrichtera annua</i>	Introduced	751042	6581964	Opportunistic	2
<i>Carrichtera annua</i>	Introduced	749295	6583153	KOOL-061	1
<i>Carrichtera annua</i>	Introduced	742050	6585763	KOOL-016	1
<i>Carrichtera annua</i>	Introduced	743200	6585278	KOOL-022	1
<i>Carrichtera annua</i>	Introduced	742755	6585837	KOOL-019	1
<i>Carrichtera annua</i>	Introduced	742052	6585172	KOOL-215	1
<i>Carrichtera annua</i>	Introduced	743509	6584889	KOOL-041	1
<i>Carrichtera annua</i>	Introduced	742715	6585797	KOOL-018	1
<i>Carrichtera annua</i>	Introduced	747472	6582593	KOOL-112	1
<i>Carrichtera annua</i>	Introduced	742333	6584519	KOOL-047	1
<i>Centaurea melitensis</i>	Introduced	741497	6586711	Opportunistic	20
<i>Centaurea melitensis</i>	Introduced	748225	6584174	Opportunistic	20
<i>Centaurea melitensis</i>	Introduced	748727	6582801	Opportunistic	20
<i>Cleretum papulosum</i> subsp. <i>papulosum</i>	Introduced	751297	6581202	KOOL-167	1
<i>Cleretum papulosum</i> subsp. <i>papulosum</i>	Introduced	749621	6581518	KOOL-133	1
<i>Cucumis myriocarpus</i>	Introduced	747287	6582962	Opportunistic	1
<i>Cuscuta planiflora</i>	Introduced	743200	6585278	KOOL-022	1
<i>Dittrichia graveolens</i>	Introduced	744920	6584716	Opportunistic	5
<i>Ehrharta longiflora</i>	Introduced	742755	6585837	KOOL-019	1
<i>Erodium aureum</i>	Introduced	749459	6583178	Opportunistic	5



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Record Location</b>	<b>Count</b>
<i>Erodium aureum</i>	Introduced	749960	6580813	KOOL-188	1
<i>Erodium aureum</i>	Introduced	745773	6584147	KOOL-069	1
<i>Hypochaeris glabra</i>	Introduced	742560	6587339	KOOL-275	1
<i>Hypochaeris glabra</i>	Introduced	751264	6581663	KOOL-162	1
<i>Erodium cicutarium</i>	Introduced	743200	6585278	KOOL-022	1
<i>Galium aparine</i>	Introduced	743200	6585278	KOOL-022	1
<i>Hypochaeris glabra</i>	Introduced	742755	6585837	KOOL-019	1
<i>Hypochaeris glabra</i>	Introduced	743509	6584889	KOOL-041	1
<i>Lysimachia arvensis</i>	Introduced	751042	6581964	Opportunistic	5
<i>Lysimachia arvensis</i>	Introduced	748088	6583111	Opportunistic	1
<i>Lysimachia arvensis</i>	Introduced	748571	6581962	Opportunistic	50
<i>Medicago minima</i>	Introduced	749384	6583133	Opportunistic	10
<i>Medicago minima</i>	Introduced	751042	6581964	Opportunistic	3
<i>Medicago minima</i>	Introduced	743200	6585278	KOOL-022	1
<i>Monoculus monstrosus</i>	Introduced	743334	6585143	Opportunistic	1
<i>Monoculus monstrosus</i>	Introduced	743200	6585278	KOOL-022	1
<i>Monoculus monstrosus</i>	Introduced	742755	6585837	KOOL-019	1
<i>Monoculus monstrosus</i>	Introduced	743509	6584889	KOOL-041	1
<i>Nicotiana glauca</i>	Introduced	742836	6585837	Opportunistic	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	749069	6581112	KOOL-270	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	750813	6579998	KOOL-196	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	743509	6584889	KOOL-041	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	751297	6581202	KOOL-167	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	748805	6581337	KOOL-139	1
<i>Pentameris airoides</i> subsp. <i>airoides</i>	Introduced	742755	6585837	KOOL-019	1
<i>Silene nocturna</i>	Introduced	743200	6585278	KOOL-022	1
<i>Solanum nigrum</i>	Introduced	744920	6584716	Opportunistic	1
<i>Solanum nigrum</i>	Introduced	743200	6585278	KOOL-022	1
<i>Sonchus oleraceus</i>	Introduced	751042	6581964	Opportunistic	2
<i>Sonchus oleraceus</i>	Introduced	743200	6585278	KOOL-022	1
<i>Sonchus oleraceus</i>	Introduced	743509	6584889	KOOL-041	1
<i>Sonchus oleraceus</i>	Introduced	742755	6585837	KOOL-019	1
<i>Vulpia muralis</i>	Introduced	742715	6585797	KOOL-018	1
<i>Vulpia myuros</i> forma <i>myuros</i>	Introduced	749069	6581112	KOOL-270	1

**Appendix M: Summary Dendogram of Relationships Between Quadrats from the Floristic Analysis**







**Appendix N:      Quadrats Moved within the Analysis Output**

<b>Quadrat</b>	<b>Vegetation Unit Moved From/To</b>	<b>Reasoning</b>
KOOL-004	4 to 1	Quadrat is in an ecotone
KOOL-012	4 to 6	Quadrat is in an ecotone
KOOL-116	4 to 1	Quadrat is in an ecotone
KOOL-145	9 to 4	Quadrat is in an ecotone
KOOL-161	4 to 1	Quadrat is in an ecotone
KOOL-216	4 to 6	Quadrat is in an ecotone
KOOL-229	4 to 10	Quadrat is in an ecotone

## Appendix O: Vascular Plant Taxa Recorded within Each Vegetation Unit within the Study Area and Adjacent Mapped Area

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Acacia</i> aff. <i>acuaria</i>																X
<i>Acacia andrewsii</i>		X	X	X		X		X	X	X	X					
<i>Acacia caesaneura</i> (narrow phyllodes variant)										X	X	X				
<i>Acacia colletioides</i>	X															
<i>Acacia coolgardiensis</i>											X					
<i>Acacia dissona</i> var. <i>indoloria</i>	X					X	X									
<i>Acacia enervia</i> subsp. <i>explicata</i>	X															
<i>Acacia erinacea</i>	X	X	X	X	X	X			X	X						
<i>Acacia hemiteles</i>						X										
<i>Acacia incurvaneura</i>											X					
<i>Acacia</i> aff. <i>intricata</i>		X			X											
<i>Acacia jennerae</i>	X									X						
<i>Acacia merrallii</i>	X					X										
<i>Acacia sibina</i>													X			
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)				X					X	X	X		X	X		
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	X							X	X	X	X	X		X	X	
<i>Acacia tetragonophylla</i>	X			X	X	X		X	X	X	X			X		
* <i>Acetosa vesicaria</i>										X						
<i>Actinobole uliginosum</i>	X				X											
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>				X				X	X	X	X					X
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>									X		X		X	X		
<i>Allocasuarina helmsii</i>							X								X	
<i>Alyxia buxifolia</i>	X	X		X		X			X	X	X	X				X
? <i>Amphipogon caricinus</i> var. <i>caricinus</i>												X				

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Amyema miquelii</i>				X		X					X					
<i>Anthosachne scabra</i>										X						
<i>Aristida contorta</i>						X				X	X	X	X	X		
<i>Arthropodium curvipes</i>				X						X						
<i>Atriplex nummularia</i>	X	X	X	X	X	X		X		X						
<i>Atriplex stipitata</i>	X	X			X	X		X								
<i>Atriplex vesicaria</i>	X	X	X	X		X										
<i>Austrostipa blackii</i>										X	X					X
<i>Austrostipa elegantissima</i>	X	X	X	X	X	X			X	X	X	X	X	X	X	X
<i>Austrostipa nitida</i>	X					X				X	X					
<i>Austrostipa platychaeta</i>	X					X										
<i>Austrostipa scabra</i> subsp. <i>scabra</i>	X	X	X	X	X	X	X		X	X	X	X	X	X		
<i>Banksia arborea</i>										X	X					
<i>Beyeria lechenaultii</i>										X						
<i>Beyeria rostellata</i>											X					
<i>Blennospora drummondii</i>				X												
<i>Brachychiton gregorii</i>									X	X	X	X		X		
<i>Brachyscome perpusilla</i>				X												
* <i>Brassica tournefortii</i>										X						
* <i>Bromus rubens</i>										X						
<i>Brunonia australis</i>												X				
<i>Caladenia</i> sp.				X												
<i>Calandrinia calyptрата</i>		X								X	X					
<i>Calandrinia eremaea</i>	X									X	X					
<i>Callitris columellaris</i>																X
<i>Calotis hispidula</i>					X	X										
* <i>Carrichtera annua</i>	X	X								X						

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Cephalopterum drummondii</i>	X															
<i>Cheilanthes adiantoides</i>	X	X		X				X	X	X	X	X	X	X	X	X
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>									X	X	X					
<i>Cheiranthra filifolia</i>									X		X	X			X	
<i>Chenopodium curvispicatum</i>	X	X														
<i>Chthonocephalus pseudevax</i>	X															
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>					X					X						
<i>Comesperma integerrimum</i>	X							X	X	X	X			X		X
<i>Crassula ?tetramera</i>										X	X					
* <i>Cuscuta planiflora</i>										X						
<i>Cyanicula amplexans</i>											X					X
<i>Daucus glochidiatus</i>		X								X	X					
<i>Daviesia scoparia</i>		X	X	X		X										
<i>Dianella revoluta</i> var. <i>divaricata</i>				X					X	X	X	X	X	X		
<i>Dodonaea caespitosa</i>											X		X			
<i>Dodonaea inaequifolia</i>	X			X	X	X	X	X	X	X	X					
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>	X			X		X			X	X	X			X		
<i>Dodonaea ?pinifolia</i>											X					
<i>Dodonaea stenozyga</i>	X	X	X	X		X	X									
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	X					X										
<i>Drosera ?macrantha</i>				X					X	X	X	X	X	X	X	X
* <i>Ehrharta longiflora</i>										X						
<i>Enchylaena lanata</i>		X								X						
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	X	X				X				X	X	X				
? <i>Enchylaena</i> x <i>Maireana georgei</i>	X	X								X					X	
<i>Eragrostis dielsii</i>	X															
<i>Eremophila alternifolia</i>	X							X	X	X	X					



Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Eremophila caperata</i>	X				X											
<i>Eremophila clarkei</i>		X		X					X	X	X			X		
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	X	X								X						
<i>Eremophila drummondii</i>	X	X														
<i>Eremophila granitica</i>									X	X	X	X				
<i>Eremophila interstans</i> subsp. <i>interstans</i>	X	X	X			X			X							
<i>Eremophila ionantha</i>	X	X	X	X	X											
<i>Eremophila metallicorum</i>						X		X	X	X	X					X
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	X	X	X	X	X	X		X	X	X	X					
<i>Eremophila saligna</i>		X		X		X										
<i>Eremophila scoparia</i>	X	X	X			X										
<i>Eremophila serrulata</i>				X						X	X			X		
<i>Eriochiton sclerolaenoides</i>	X	X	X		X	X			X							
* <i>Erodium aureum</i>											X					
* <i>Erodium cicutarium</i>	X									X						
<i>Erodium cygnorum</i>	X	X		X	X					X	X			X	X	
<i>Eucalyptus capillosa</i>				X												
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	X	X	X		X	X			X							
<i>Eucalyptus corrugata</i>	X		X			X	X		X	X	X					
<i>Eucalyptus ewartiana</i>											X				X	
<i>Eucalyptus longicornis</i>	X		X			X										
<i>Eucalyptus longissima</i>	X						X	X	X	X	X					
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>								X	X	X	X	X				
<i>Eucalyptus petraea</i>											X					
<i>Eucalyptus ravidia</i>	X	X		X		X										
<i>Eucalyptus salmonophloia</i>	X	X			X											
<i>Eucalyptus salubris</i>	X	X	X	X												

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Eucalyptus transcontinentalis</i>	X				X											
<i>Eucalyptus vittata</i>	X	X	X		X	X										
<i>Eucalyptus yilgarnensis</i>	X			X	X	X										
<i>Euphorbia philochalix</i>	X															
<i>Exocarpos aphyllus</i>	X	X	X	X	X	X		X	X	X	X					
* <i>Galium aparine</i>										X						
<i>Goodenia berardiana</i>											X					
<i>Grevillea acuaria</i>	X			X					X							
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>								X								
<i>Grevillea zygoloba</i>				X				X	X	X	X	X	X			
<i>Hakea recurva</i> subsp. <i>recurva</i>																X
<i>Halgania andromedifolia</i>	X		X	X		X										
<i>Hemigenia brachyphylla</i>											X		X	X		
<i>Hibbertia eatoniae</i>											X		X	X		
<i>Hibbertia exasperata</i>				X					X	X	X					
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i>									X		X					X
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>											X			X	X	
<i>Hydrocotyle pilifera</i> var. <i>glabrata</i>	X				X											
<i>Hydrocotyle rugulosa</i>		X								X	X					
* <i>Hypochoeris glabra</i>										X						
<i>Isoetopsis graminifolia</i>					X											
<i>Isotoma petraea</i>										X						
<i>Lawrencella rosea</i>											X					
<i>Lawrenca diffusa</i>		X														
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>										X						
<i>Lepidosperma ferricola</i>									X	X	X					
<i>Leucochrysum fitzgibbonii</i>					X											

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)									X	X	X	X	X	X		X
<i>Lysiana casuarinae</i>				X												
<i>Maireana carnosa</i>	X	X														
<i>Maireana georgei</i>	X	X	X	X	X	X			X	X	X					
<i>Maireana thesioides</i>	X															
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	X	X			X											
<i>Maireana trichoptera</i>	X	X	X	X	X	X				X						
<i>Maireana triptera</i>	X	X			X											
<i>Malleostemon tuberculatus</i>													X			
* <i>Medicago minima</i>										X						
<i>Melaleuca hamata</i>											X	X	X	X		X
<i>Melaleuca leiocarpa</i>										X	X					X
<i>Melaleuca radula</i>													X			
<i>Menkea australis</i>	X															
<i>Millotia myosotidifolia</i>										X	X					
<i>Mirbelia microphylla</i>									X		X	X				X
<i>Monachather paradoxus</i>									X		X	X				
* <i>Monoculus monstrosus</i>										X						
<i>Olearia exiguifolia</i>					X											
<i>Olearia humilis</i>									X	X	X					
<i>Olearia muelleri</i>	X	X	X	X	X	X	X		X	X	X					
<i>Olearia pimeleoides</i>	X	X		X		X			X	X	X		X			
<i>Olearia stuartii</i>									X							
<i>Oxalis exilis</i>										X						
<i>Parietaria cardiostegia</i>										X	X					
* <i>Pentameris airoides</i> subsp. <i>airoides</i>		X			X					X	X					X
<i>Phebalium canaliculatum</i>									X							

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Phebalium tuberosum</i>											X					
<i>Philotheca brucei</i> subsp. <i>brucei</i>									X	X	X	X				X
<i>Phlegmatospermum drummondii</i>					X											
<i>Phyllangium sulcatum</i>											X					
<i>Pimelea spiculigera</i> var. <i>thesioides</i>											X			X	X	
<i>Pittosporum angustifolium</i>	X			X		X				X						
<i>Plantago debilis</i>		X		X	X						X					
<i>Pleurosorus rutifolius</i>										X	X					
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>									X		X					
<i>Prostanthera grylloana</i>									X	X						
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i>								X	X	X	X	X		X		
<i>Pterostylis</i> sp. dainty brown (N. Gibson & M. Lyons 3690)										X						
<i>Pterostylis</i> sp. inland (A.C. Beaglehole 11880)										X	X					
<i>Ptilotus divaricatus</i>	X									X						
<i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i>					X											
<i>Ptilotus holosericeus</i>	X	X			X	X										
<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	X	X			X	X										X
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	X	X		X	X	X		X	X	X	X					X
<i>Rhagodia drummondii</i>	X	X	X	X	X	X	X		X	X	X					
<i>Rhodanthe battii</i>										X	X					
<i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i>					X											
<i>Rhodanthe rubella</i>					X											
<i>Rhyncharrhena linearis</i>	X							X	X	X	X	X				
<i>Rinzia carnosus</i>											X	X	X			
<i>Rytidosperma caespitosum</i>	X			X		X				X						
<i>Santalum acuminatum</i>	X	X	X													
<i>Santalum spicatum</i>	X			X		X	X	X	X	X	X					



Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Scaevola spinescens</i>	X	X	X	X	X	X	X	X	X	X	X		X	X		
<i>Schoenia cassiniana</i>											X			X		
<i>Sclerolaena diacantha</i>	X	X	X	X	X	X				X						
<i>Sclerolaena fusiformis</i>	X	X			X	X		X								
<i>Sclerolaena patenticuspis</i>					X											
<i>Senecio glossanthus</i>				X						X	X					
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	X	X	X	X	X	X		X	X	X	X		X			
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	X										X					
<i>Senna cardiosperma</i>	X					X										
<i>Senna charlesiana</i>										X						
<i>Senna stowardii</i>	X															
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	X									X	X	X		X		
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)										X	X					
* <i>Silene nocturna</i>										X						
<i>Solanum cleistogamum</i>	X			X		X				X	X	X	X	X	X	
<i>Solanum lasiophyllum</i>	X		X						X	X	X		X	X	X	
* <i>Solanum nigrum</i>										X						
<i>Solanum nummularium</i>	X	X	X			X				X	X	X			X	
* <i>Sonchus oleraceus</i>										X						
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109)										X						
<i>Stenanthemum newbeyi</i>											X			X		
<i>Stenopetalum filifolium</i>					X					X	X					
<i>Stylidium dielsianum</i>													X			
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)																X
<i>Templetonia ceracea</i>		X				X										
<i>Templetonia smithiana</i>	X															
<i>Thysanotus manglesianus</i>	X			X	X	X			X	X	X	X	X	X		

Taxon	Vegetation Unit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>Thysanotus speckii</i>					X											
<i>Trachymene ornata</i>				X						X	X					
<i>Trachymene pilosa</i>					X						X					
<i>Trymalium myrtilloides</i> subsp. <i>myrtilloides</i>	X	X		X		X	X		X	X	X					
<i>Velleia hispida</i>					X							X				
<i>Vittadinia humerata</i>	X															
* <i>Vulpia muralis</i>										X						
* <i>Vulpia myuros</i> forma <i>myuros</i>		X														
<i>Waitzia acuminata</i> var. <i>acuminata</i>											X					
<i>Westringia cephalantha</i>					X	X			X							
<i>Westringia rigida</i>	X					X										
<i>Xerolirion divaricata</i>				X						X	X					X
<i>Zygophyllum apiculatum</i>	X			X		X					X					
<i>Zygophyllum eremaeum</i>	X	X				X				X						
<i>Zygophyllum ovatum</i>	X		X			X			X							

**Appendix P: Summary Matrix of Taxon Presence Within Quadrats from the Floristic Analysis**





**Appendix Q: Significant Indicator Taxa of the 16-Group Classification of Vegetation Units**

Note: Shading denotes highest indicator values per taxon.

Indicator values (%) are shown only for taxa which were significant at  $P < 0.05$  (\* =  $p < 0.05$ ; \*\* =  $p < 0.01$ ; \*\*\* =  $p < 0.001$ )

Taxon	Vegetation Unit															
	1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	
<i>Maireana trichoptera</i> **	19	16	4	1	17	11	0	0	2	0	0	0	0	0	0	
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> *	1	36	20	0	1	1	0	0	0	0	0	0	0	0	0	
<i>Eucalyptus ravida</i> ***	0	60	0	3	0	1	0	0	0	0	0	0	0	0	0	
<i>Sclerolaena diacantha</i> ***	21	31	2	5	8	1	0	0	0	0	0	0	0	0	0	
<i>Atriplex vesicaria</i> ***	24	26	29	1	0	5	0	0	0	0	0	0	0	0	0	
<i>Eremophila scoparia</i> ***	24	10	34	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Eucalyptus longicornis</i> ***	3	0	67	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Halgania andromedifolia</i> **	0	0	43	3	0	9	0	0	0	0	0	0	0	0	0	
<i>Austrostipa elegantissima</i> **	7	4	5	13	0	11	0	2	6	5	3	3	7	3	0	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> **	5	2	1	23	10	1	1	13	5	0	0	0	0	0	0	
<i>Eucalyptus capillosa</i> ***	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	
<i>Grevillea acuaria</i> ***	0	0	0	91	0	0	0	0	0	0	0	0	0	0	0	
<i>Atriplex nummularia</i> ***	19	18	13	1	23	1	1	0	1	0	0	0	0	0	0	
<i>Eremophila caperata</i> **	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	
<i>Eucalyptus vittata</i> **	1	0	17	0	43	8	0	0	0	0	0	0	0	0	0	
<i>Maireana georgei</i> ***	10	16	2	4	26	2	0	0	5	0	0	0	0	0	0	
<i>Ptilotus holosericeus</i> *	7	5	0	0	32	2	0	0	0	0	0	0	0	0	0	
<i>Sclerolaena fusiformis</i> *	1	4	0	0	29	0	10	0	0	0	0	0	0	0	0	
<i>Dodonaea stenozyga</i> **	0	0	5	3	0	43	0	0	0	0	0	0	0	0	0	
<i>Eucalyptus corrugata</i> **	3	0	1	0	0	45	0	6	0	0	0	0	0	0	0	
<i>Olearia muelleri</i> ***	14	3	10	12	13	18	0	5	1	0	0	0	0	0	0	
<i>Scaevola spinescens</i> ***	6	0	0	3	2	2	17	15	17	8	0	1	1	0	0	

Taxon	Vegetation Unit															
	1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	
<i>Dodonaea microzyga</i> var. <i>acrolobata</i> *	0	0	0	2	0	2	0	39	0	2	0	0	4	0	0	
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> *	0	0	0	0	0	0	2	28	2	1	15	0	0	0	0	
<i>Acacia tetragonophylla</i> ***	2	0	0	8	2	1	13	12	21	6	0	0	1	0	0	
<i>Dodonaea inaequifolia</i> *	1	0	0	4	1	2	17	11	21	5	0	0	0	0	0	
<i>Olearia pimeleoides</i> *	0	0	0	12	0	2	0	15	23	2	0	2	0	0	0	
<i>Ptilotus obovatus</i> var. <i>obovatus</i> ***	7	1	0	3	9	9	1	5	18	2	0	0	0	5	0	
<i>Rhagodia drummondii</i> ***	16	7	0	17	1	3	0	0	23	0	0	0	0	0	0	
<i>Acacia</i> sp. Mt Jackson (B. Ryan 176)***	0	0	0	1	0	0	0	21	15	22	0	6	14	0	0	
<i>Banksia arborea</i> *	0	0	0	0	0	0	0	0	5	28	0	0	0	0	0	
<i>Hibbertia exasperata</i> ***	0	0	0	3	0	0	0	3	1	44	0	0	0	0	0	
<i>Olearia humilis</i> ***	0	0	0	0	0	0	0	1	4	52	0	0	0	0	0	
<i>Philotheca brucei</i> subsp. <i>brucei</i> ***	0	0	0	0	0	0	0	14	11	29	7	0	0	0	13	
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i> ***	0	0	0	0	0	0	0	1	0	54	0	0	0	0	0	
<i>Stenanthemum newbeyi</i> *	0	0	0	0	0	0	0	0	0	38	0	0	8	0	0	
<i>Acacia caesaneura</i> (narrow phyllodes variant)*	0	0	0	0	0	0	0	0	1	1	38	0	0	0	0	
<i>Mirbelia microphylla</i> **	0	0	0	0	0	0	0	0	0	9	56	0	0	0	6	
<i>Monachather paradoxus</i> ***	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	
<i>Prostanthera semiteres</i> subsp. <i>semiteres</i> *	0	0	0	0	0	0	1	14	0	4	30	0	30	0	0	
<i>Rhyncharrhena linearis</i> ***	0	0	0	0	0	0	2	2	3	8	49	0	0	0	0	
<i>Rinzia carnosus</i> **	0	0	0	0	0	0	0	0	0	0	65	16	0	0	0	
<i>Acacia sibina</i> **	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> *	0	0	0	0	0	0	0	1	0	6	0	40	40	0	0	
<i>Dodonaea caespitosa</i> **	0	0	0	0	0	0	0	0	0	1	0	43	0	0	0	
<i>Grevillea zygoloba</i> ***	0	0	0	1	0	0	1	13	1	21	7	28	0	0	0	
<i>Hemigenia brachyphylla</i> **	0	0	0	0	0	0	0	0	0	1	0	63	16	0	0	
<i>Hibbertia eatoniae</i> ***	0	0	0	0	0	0	0	0	0	3	0	68	4	0	0	
<i>Malleostemon tuberculatus</i> **	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	

Taxon	Vegetation Unit															
	1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	
<i>Solanum lasiophyllum</i> **	0	0	0	0	0	0	0	0	13	7	0	7	30	7	0	
<i>Allocasuarina helmsii</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	
<i>Eucalyptus ewartiana</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	0	98	0	
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i> **	0	0	0	0	0	0	0	0	0	0	0	0	5	77	0	
<i>Alyxia buxifolia</i> *	1	0	0	28	0	1	0	2	1	1	7	0	0	0	28	
<i>Callitris columellaris</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	
<i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> ***	0	0	0	0	0	0	0	1	0	4	0	0	0	0	74	
<i>Melaleuca leiocarpa</i> ***	0	0	0	0	0	0	0	0	2	0	0	0	0	0	81	
<i>Styphelia</i> sp. Bullfinch (M. Hislop 3574)***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	
<i>Xerolirion divaricata</i> **	0	0	0	3	0	0	0	0	3	0	0	0	0	0	67	

**Appendix R: Detailed Descriptions of Vegetation Units in the Study Area and Adjacent Mapped Area**



**VEGETATION UNIT 1:**

Mid woodland of mixed species including *Eucalyptus salmonophloia*, *Eucalyptus corrugata*, *Eucalyptus salubris*, *Eucalyptus longicornis* and *Eucalyptus vittata* over tall to mid sparse shrubland dominated by *Atriplex nummularia*, *Exocarpos aphyllus*, *Eremophila scoparia*, *Scaevola spinescens* and *Senna artemisioides* subsp. *filifolia* over low sparse shrubland dominated by *Atriplex vesicaria*, *Maireana trichoptera*, *Olearia muelleri*, *Sclerolaena diacantha* and *Rhagodia drummondii* on red, brown, orange or red-brown clay, clay loam and sandy loam with dolerite, quartz and ironstone stones on plains, flats and low rises

**Total Area Mapped:** 658.9 ha

**Percentage of Study Area:** 38.4 %

**Sampling:** 48 quadrats – 37 in Study Area, 11 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Woodland (Trees 10-30m)	<i>Eucalyptus salmonophloia</i>
Mid Stratum 1	Tall to Mid Sparse Shrubland (Shrubs 1- >2 m)	<i>Atriplex nummularia</i> , <i>Exocarpos aphyllus</i> , <i>Eremophila interstans</i> subsp. <i>interstans</i> , <i>Eremophila ionantha</i> , <i>Eremophila</i> <i>oppositifolia</i> subsp. <i>angustifolia</i> , <i>Eremophila</i> <i>scoparia</i> , <i>Pittosporum angustifolium</i> , <i>Scaevola</i> <i>spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> ,
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Acacia erinacea</i> , <i>Atriplex vesicaria</i> , <i>Eriochiton sclerolaenoides</i> , <i>Maireana georgei</i> , <i>Maireana trichoptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia</i> <i>drummondii</i> , <i>Sclerolaena diacantha</i> , <i>Solanum</i> <i>nummularium</i>
Lower Stratum 2	Low Isolated Tussock Grasses (Grasses < 0.5 m)	<i>Austrostipa elegantissima</i> , <i>Austrostipa scabra</i> subsp. <i>scabra</i>

**Indicator Taxa:** *Maireana trichoptera*

**Landform Types:** Plains, flats and low rises

**Soil Types:** Red, brown, orange or red-brown clay, clay loam and sandy loam with dolerite, quartz and ironstone stones

**No. of Vascular Plant Taxa:** 95 (including 1 known hybrid and 1 putative hybrid)

**Average Taxon Richness:** 18.9 ± 4.5

**Conservation Significant Flora:** *Acacia dissona* var. *indoloria* (P3), *Austrostipa blackii* (P3), *Hibbertia lepidocalyx* subsp. *tuberculata* (P3), *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3), *Banksia arborea* (P4), *Acacia* aff. *acuaria* (potentially undescribed), *Acacia* aff. *intricata* (potentially undescribed) and *Lepidosperma* aff. *ferriculmen* (potentially undescribed)

**Introduced Flora:** *Carrichtera annua* and *Erodium cicutarium*



**Vegetation Unit 1 (Quadrat KOOL-027) (Photo: Woodman Environmental)**

**VEGETATION UNIT 2:**

Mid to low woodland dominated by *Eucalyptus ravida* and *Eucalyptus celastroides* subsp. *celastroides* over tall to mid sparse shrubland dominated by *Atriplex nummularia* and *Eremophila scoparia* over low sparse shrubland dominated by *Atriplex vesicaria*, *Sclerolaena diacantha*, *Maireana trichoptera*, *Maireana georgei* and *Rhagodia drummondii* on red, brown, orange or red-brown clay with dolerite, quartz and ironstone stones on plains and flats

**Total Area Mapped:** 159.6 ha

**Percentage of Study Area:** 9.3 %

**Sampling:** 19 quadrats – 17 in Study Area, 2 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid to Low Woodland (Trees <10-30 m)	<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> , <i>Eucalyptus ravida</i>
Mid Stratum 1	Tall to Mid Sparse Shrubland (Shrubs 1- >2 m)	<i>Atriplex nummularia</i> , <i>Eremophila scoparia</i>
Low Stratum 1	Low Sparse Shrubland (Shrubs <1 m)	<i>Atriplex vesicaria</i> , <i>Sclerolaena diacantha</i> , <i>Maireana georgei</i> , <i>Maireana trichoptera</i> , <i>Olearia muelleri</i> , <i>Rhagodia drummondii</i> ,
Lower Stratum 2	Low Isolated Tussock Grasses (Grasses < 0.5 m)	<i>Austrostipa elegantissima</i>

**Indicator Taxa:** *Eucalyptus celastroides* subsp. *celastroides*, *Eucalyptus ravida* and *Sclerolaena diacantha*

**Landform Types:** Plains and flats

**Soil Types:** Red, brown, orange or red-brown clay with dolerite, quartz and ironstone stones

**No. of Vascular Plant Taxa:** 60 (including 1 putative hybrid)

**Average Taxon Richness:** 14.1 ± 3.5

**Conservation Significant Flora:** *Acacia dissona* var. *indoloria* (P3), *Hibbertia lepidocalyx* subsp. *tuberculata* (P3), *Lepidosperma ferricola* (P3), *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3), *Banksia arborea* (P4), *Acacia* aff. *acuaria*



(potentially undescribed) and *Acacia* aff. *intricata*  
(potentially undescribed)

**Introduced Flora:**

*Carrichtera annua*, *Pentameris airoides* subsp. *airoides*  
and *Vulpia myuros* forma *myuros*



**Vegetation Unit 2 (Quadrat KOOL-071) (Photo: Woodman Environmental)**



**VEGETATION UNIT 3:**

Mid woodland dominated by *Eucalyptus longicornis* and *Eucalyptus vittata* over low open mallee woodland dominated by *Eucalyptus celastroides* subsp. *celastroides* over tall to mid sparse shrubland dominated by *Atriplex nummularia*, *Eremophila scoparia*, *Exocarpos aphyllus*, *Eremophila interstans* subsp. *interstans* and *Halgania andromedifolia* over low sparse shrubland dominated by *Atriplex vesicaria* and *Olearia muelleri* on red, brown, orange or red-brown clay with dolerite and quartz stones on low rises

**Total Area Mapped:** 85.9 ha

**Percentage of Study Area:** 5 %

**Sampling:** 8 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Woodland (Trees 10-30 m)	<i>Eucalyptus longicornis</i> , <i>Eucalyptus vittata</i>
Upper Stratum 2	Low Open Mallee Woodland (Mallees < 3 m)	<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>
Mid Stratum 1	Tall to Mid Sparse Shrubland (Shrubs 1 - >2 m)	<i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Exocarpos aphyllus</i> , <i>Eremophila interstans</i> subsp. <i>interstans</i> , <i>Halgania andromedifolia</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Atriplex vesicaria</i> , <i>Maireana trichoptera</i> , <i>Olearia muelleri</i>
Lower Stratum 2	Low Isolated Tussock Grasses (Grasses < 0.5 m)	<i>Austrostipa elegantissima</i>

**Indicator Taxa:** *Atriplex vesicaria*, *Eremophila scoparia*, *Eucalyptus longicornis* and *Halgania andromedifolia*

**Landform Types:** Low rises

**Soil Types:** Red, brown, orange or red-brown clay with dolerite and quartz stones

**No. of Vascular Plant Taxa:** 31

**Average Taxon Richness:** 12.1 ± 4.3

**Conservation Significant Flora:** *Acacia* aff. *intricata* (potentially undescribed)

**Introduced Flora:** None recorded



**Vegetation Unit 3 (Quadrat KOOL-154) (Photo: Woodman Environmental)**

**VEGETATION UNIT 4:**

Mid woodland dominated by *Eucalyptus capillosa* or *Eucalyptus salubris* over tall to mid sparse shrubland dominated by *Eremophila oppositifolia* subsp. *angustifolia*, *Alyxia buxifolia*, *Acacia tetragonophylla* and *Exocarpos aphyllus* over low sparse shrubland of mixed species including *Grevillea acuaria*, *Acacia erinacea*, *Olearia muelleri*, *Rhagodia drummondii* and *Acacia andrewsii* on red, brown or red-brown clay with laterised ironstone stones and occasionally with laterised ironstone outcropping on slopes adjacent to lateritic breakaways and cliffs

**Total Area Mapped:** 33.1 ha

**Percentage of Study Area:** 1.9 %

**Sampling:** 5 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Woodland (Trees 10-30 m)	<i>Eucalyptus capillosa</i>
Mid Stratum 1	Tall to Mid Sparse Shrubland (Shrubs 1- > 2 m)	<i>Acacia tetragonophylla</i> , <i>Alyxia buxifolia</i> , <i>Dodonaea inaequifolia</i> , <i>Eremophila clarkei</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Exocarpos aphyllus</i> , <i>Pittosporum</i> <i>angustifolium</i> , <i>Scaevola spinescens</i> , <i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Acacia andrewsii</i> , <i>Acacia erinacea</i> , <i>Dianella</i> <i>revoluta</i> var. <i>divaricata</i> , <i>Grevillea acuaria</i> , <i>Maireana georgei</i> , <i>Olearia muelleri</i> , <i>Olearia</i> <i>pimeleoides</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia drummondii</i> , <i>Sclerolaena diacantha</i>
Lower Stratum 2	Low Isolated Tussock Grasses; Low Isolated Forbs (< 0.5 m)	<i>Austrostipa elegantissima</i> , <i>Rytidosperma</i> <i>caespitosum</i> ; <i>Blennospora drummondii</i> , <i>Cheilanthes adiantoides</i>

**Indicator Taxa:** *Austrostipa elegantissima*, *Eremophila oppositifolia* subsp. *angustifolia*, *Eucalyptus capillosa* and *Grevillea acuaria*

**Landform Types:** Slopes adjacent to lateritic breakaways and cliffs

**Soil Types:** Red, brown or red-brown clay with laterised ironstone stones and occasionally with laterised ironstone outcropping



---

<b>No. of Vascular Plant Taxa:</b>	58
<b>Average Taxon Richness:</b>	19 ± 4.2
<b>Conservation Significant Flora:</b>	<i>Tetratheca erubescens</i> (R), <i>Beyeria rostellata</i> (P1), <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3), <i>Stenanthemum newbeyi</i> (P3), <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574) (P3), <i>Banksia arborea</i> (P4) and <i>Acacia</i> aff. <i>acuaria</i> (potentially undescribed)
<b>Introduced Flora:</b>	None recorded



**Vegetation Unit 4 (Quadrat KOOL-145) (Photo: Woodman Environmental)**



**VEGETATION UNIT 5:**

Mid to low woodland of *Eucalyptus vittata* over mid sparse shrubland dominated by *Atriplex nummularia*, *Eremophila oppositifolia* subsp. *angustifolia* and *Eremophila caperata* over low sparse shrubland of mixed species including *Olearia muelleri*, *Acacia erinacea*, *Maireana georgei* and *Ptilotus obovatus* var. *obovatus* on red or red-brown clay with ironstone and quartz stones on lower slopes of ranges and low rises

**Total Area Mapped:** 64.0 ha

**Percentage of Study Area:** 3.7 %

**Sampling:** 6 quadrats – 4 in Study Area, 2 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid to Low Woodland (Trees <10-30 m)	<i>Eucalyptus salmonophloia</i> , <i>Eucalyptus transcontinentalis</i> , <i>Eucalyptus vittata</i>
Mid Stratum 1	Mid Sparse Shrubland (Shrubs 1 - 2 m)	<i>Acacia tetragonophylla</i> , <i>Atriplex nummularia</i> , <i>Eremophila caperata</i> , <i>Eremophila ionantha</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Exocarpos aphyllus</i> , <i>Scaevola spinescens</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Acacia erinacea</i> , <i>Atriplex stipitata</i> , <i>Eriochiton sclerolaenoides</i> , <i>Maireana georgei</i> , <i>Maireana trichoptera</i> , <i>Maireana triptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena diacantha</i> , <i>Sclerolaena fusiformis</i>
Lower Stratum 2	Low Isolated Clumps of Forbs (Forbs <0.5 m)	<i>Leucochrysum fitzgibbonii</i> , <i>Phlegmatospermum drummondii</i> , <i>Ptilotus gaudichaudii</i> subsp. <i>eremita</i> , <i>Ptilotus holosericeus</i> , <i>Thysanotus manglesianus</i> , <i>Velleia hispida</i>

**Indicator Taxa:** *Atriplex nummularia*, *Eremophila caperata*, *Eucalyptus vittata*, *Maireana georgei*, *Ptilotus holosericeus* and *Sclerolaena fusiformis*

**Landform Types:** Lower slopes of ranges and low rises

**Soil Types:** Red or red-brown clay with ironstone and quartz stones

**No. of Vascular Plant Taxa:** 52

**Average Taxon Richness:** 17.8 ± 3.5

**Conservation Significant Flora:** *Hibbertia lepidocalyx* subsp. *tuberculata* (P3),  
*Lepidosperma ferricola* (P3), *Stenanthemum newbeyi*  
(P3) and *Banksia arborea* (P4)

**Introduced Flora:** *Cleretum papulosum* subsp. *papulosum* and *Pentameris  
airoides* subsp. *airoides*



**Vegetation Unit 5 (Quadrat KOOL-066) (Photo: Woodman Environmental)**

**VEGETATION UNIT 6:**

Mid to low mallee woodland of *Eucalyptus corrugata* and/or *Eucalyptus vittata* over tall to mid open shrubland dominated by *Exocarpos aphyllus*, *Senna artemisioides* subsp. *filifolia* and *Eremophila interstans* subsp. *interstans* over low sparse shrubland dominated by *Olearia muelleri*, *Acacia erinacea*, *Dodonaea stenozyga*, and *Ptilotus obovatus* var. *obovatus* on brown or red-brown clay loam with dolerite stones and occasionally dolerite outcropping on lower slopes of ranges and low rises

**Total Area Mapped:** 41.4 ha

**Percentage of Study Area:** 2.4 %

**Sampling:** 12 quadrats – 7 in Study Area, 5 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid to Low Mallee Woodland (Mallees < 10 m)	<i>Eucalyptus corrugata</i> , <i>Eucalyptus vittata</i>
Mid Stratum 1	Tall to Mid Open Shrubland (Shrubs 1- >2 m)	<i>Eremophila interstans</i> subsp. <i>interstans</i> , <i>Exocarpos aphyllus</i> , <i>Halgania andromedifolia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Scaevola spinescens</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Acacia erinacea</i> , <i>Atriplex vesicaria</i> , <i>Dodonaea stenozyga</i> , <i>Eriochiton sclerolaenoides</i> , <i>Maireana trichoptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia drummondii</i> , <i>Zygophyllum ovatum</i>
Lower Stratum 2	Low Isolated Tussock Grasses (Grasses <0.5 m)	<i>Austrostipa elegantissima</i>

**Indicator Taxa:** *Dodonaea stenozyga*, *Eucalyptus corrugata* and *Olearia muelleri*

**Landform Types:** Lower slopes of ranges and low rises

**Soil Types:** Brown or red-brown clay loam with dolerite stones and occasionally dolerite outcropping

**No. of Vascular Plant Taxa:** 63

**Average Taxon Richness:** 16.3 ± 3.8



**Conservation Significant Flora:** *Tetratheca erubescens* (R), *Beyeria rostellata* (P1), *Acacia dissona* var. *indoloria* (P3), *Stenanthemum newbeyi* (P3), *Banksia arborea* (P4) and *Acacia* aff. *intricata* (potentially undescribed)

**Introduced Flora:** None recorded



**Vegetation Unit 6 (Quadrat KOOL-006) (Photo: Woodman Environmental)**



**VEGETATION UNIT 7:**

Low open mallee woodland of *Eucalyptus corrugata* and *Eucalyptus longissima* over tall shrubland dominated by *Allocasuarina helmsii* over mid sparse shrubland dominated by *Dodonaea stenozyga* and *Acacia dissona* var. *indoloria* over low isolated shrubs of mixed species on brown clay loam with dolerite stones and some dolerite outcropping on low rises

**Total Area Mapped:** 1.7 ha

**Percentage of Study Area:** 0.1 %

**Sampling:** 1 quadrat – within Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Open Mallee Woodland (Mallees < 3 m)	<i>Eucalyptus corrugata</i> , <i>Eucalyptus longissima</i>
Mid Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Allocasuarina helmsii</i> , <i>Santalum spicatum</i>
Mid Stratum 2	Mid Sparse Shrubland (Shrubs 1 - 2 m)	<i>Acacia dissona</i> var. <i>indoloria</i> , <i>Dodonaea inaequifolia</i> , <i>Dodonaea stenozyga</i> , <i>Scaevola spinescens</i> , <i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
Lower Stratum 1	Low Isolated Shrubs (Shrubs < 1 m)	<i>Olearia muelleri</i> , <i>Rhagodia drummondii</i>
Lower Stratum 2	Low Isolated Tussock Grasses (Grasses <0.5 m)	<i>Austrostipa scabra</i> subsp. <i>scabra</i>

**Indicator Taxa:** No indicator taxa (1 quadrat only)

**Landform Types:** Low rises

**Soil Types:** Brown clay loam with dolerite stones and some dolerite outcropping

**No. of Vascular Plant Taxa:** 12

**Average Taxon Richness:** 11

**Conservation Significant Flora:** *Acacia dissona* var. *indoloria* (P3)

**Introduced Flora:** None recorded



**Vegetation Unit 7 (Quadrat KOOL-230) (Photo: Woodman Environmental)**

**VEGETATION UNIT 8:**

Low isolated mallees of *Eucalyptus longissima* or *Eucalyptus loxophleba* subsp. *lissophloia* over tall shrubland dominated by *Acacia* sp. narrow phyllode (B.R. Maslin 7831) and occasionally *Acacia tetragonophylla* over mid open shrubland dominated by *Dodonaea inaequifolia* and *Scaevola spinescens* over low isolated shrubs of mixed species on red or red-brown clay with ironstone stones on low rises

**Total Area Mapped:** 2.5 ha

**Percentage of Study Area:** 0.1 %

**Sampling:** 5 quadrats – 1 in Study Area, 4 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Isolated Mallees (Mallees < 3 m)	<i>Eucalyptus longissima</i>
Mid Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Acacia tetragonophylla</i> , <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)
Mid Stratum 2	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Dodonaea inaequifolia</i> , <i>Exocarpos aphyllus</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Lower Stratum 1	Low Isolated Shrubs (Shrubs < 1 m)	<i>Sclerolaena fusiformis</i>

**Indicator Taxa:** *Scaevola spinescens*

**Landform Types:** Low rises

**Soil Types:** Red or red-brown clay with ironstone stones

**No. of Vascular Plant Taxa:** 24

**Average Taxon Richness:** 8.4 ± 1.1

**Conservation Significant Flora:** None recorded

**Introduced Flora:** None recorded





**Vegetation Unit 8 (Quadrat KOOL-028) (Photo: Woodman Environmental)**



**VEGETATION UNIT 9:**

Low open mallee woodland dominated by *Eucalyptus loxophleba* subsp. *lissophloia* over tall open to sparse shrubland of mixed species dominated by *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla* and *Allocasuarina acutivalvis* subsp. *acutivalvis* over mid open shrubland dominated by *Scaevola spinescens*, *Eremophila oppositifolia* subsp. *angustifolia*, *Grevillea zygaloba*, *Dodonaea inaequifolia* and *Philotheca brucei* subsp. *brucei* over low sparse shrubland dominated by *Dodonaea microzyga* var. *acrolobata*, *Olearia pimelioides*, *Prostanthera semiteres* subsp. *semiteres* and *Olearia muelleri* on red, red-brown, orange-brown or brown clay or clay-loam with ironstone stones, occasionally with banded ironstone outcropping, on mid to lower slopes of ranges and low rises

**Total Area Mapped:** 108.6 ha

**Percentage of Study Area:** 6.3 %

**Sampling:** 16 quadrats – 12 in Study Area, 4 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Open Mallee Woodland (Trees < 3 m)	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
Mid Stratum 1	Tall Open to Sparse Shrubland (Shrubs > 2 m)	<i>Acacia tetragonophylla</i> , <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>
Mid Stratum 2	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Dodonaea inaequifolia</i> , <i>Eremophila clarkei</i> , <i>Eremophila granitica</i> , <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Exocarpos aphyllus</i> , <i>Grevillea zygaloba</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Dodonaea microzyga</i> var. <i>acrolobata</i> , <i>Olearia muelleri</i> , <i>Olearia pimeleoides</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>
Lower Stratum 2	Low Isolated Grasses (Grasses <0.5 m)	<i>Austrostipa elegantissima</i>

**Indicator Taxa:** *Dodonaea microzyga* var. *acrolobata* and *Eucalyptus loxophleba* subsp. *lissophloia*

<b>Landform Types:</b>	Mid to lower slopes of ranges and low rises
<b>Soil Types:</b>	Red, red-brown, orange-brown or brown clay or clay-loam with ironstone stones, occasionally with banded ironstone outcropping
<b>No. of Vascular Plant Taxa:</b>	60
<b>Average Taxon Richness:</b>	17.1 ± 3.4
<b>Conservation Significant Flora:</b>	<i>Beyeria rostellata</i> (P1), <i>Acacia dissona</i> var. <i>indoloria</i> (P3), <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3), <i>Lepidosperma ferricola</i> (P3), <i>Stenanthemum newbeyi</i> (P3) and <i>Banksia arborea</i> (P4)
<b>Introduced Flora:</b>	None recorded



**Vegetation Unit 9 (Quadrat KOOL-075) (Photo: Woodman Environmental)**

**VEGETATION UNIT 10:**

Tall open shrubland dominated by *Acacia* sp. Mt Jackson (B. Ryan 176), *Acacia tetragonophylla* and occasionally *Santalum spicatum* over mid open shrubland dominated by *Dodonaea inaequifolia*, *Scaevola spinescens*, *Philotheca brucei* subsp. *brucei* and *Eremophila clarkei* over low sparse shrubland dominated by *Ptilotus obovatus* var. *obovatus*, *Olearia pimelioides* and *Rhagodia drummondii* on red, red-brown or brown clay or clay-loam with ironstone stones, often with banded ironstone outcropping, on mid to lower slopes of ranges

**Total Area Mapped:** 148.9 ha

**Percentage of Study Area:** 8.7 %

**Sampling:** 24 quadrats – 12 in Study Area, 12 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Tall Open Shrubland (Shrubs > 2 m)	<i>Acacia tetragonophylla</i> , <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Santalum spicatum</i>
Mid Stratum 1	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Dodonaea inaequifolia</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila clarkei</i> , <i>Eremophila serrulata</i> , <i>Exocarpos aphyllus</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i> , <i>Maireana georgei</i> , <i>Olearia pimeleoides</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia drummondii</i> , <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260), <i>Solanum cleistogamum</i> , <i>Solanum lasiophyllum</i>
Lower Stratum 2	Low Isolated Tussock Grasses; Low Isolated Forbs (<0.5 m)	<i>Austrostipa elegantissima</i> , <i>Austrostipa scabra</i> subsp. <i>scabra</i> ; <i>Cheilanthes ?adiantoides</i>

**Indicator Taxa:** *Acacia tetragonophylla*, *Dodonaea inaequifolia*, *Olearia pimeleoides*, *Ptilotus obovatus* var. *obovatus* and *Rhagodia drummondii*

**Landform Types:** Mid to lower slopes of ranges

**Soil Types:** Red, red-brown or brown clay or clay-loam with ironstone stones, often with banded ironstone outcropping, on

<b>No. of Vascular Plant Taxa:</b>	110 (including 1 putative hybrid)
<b>Average Taxon Richness:</b>	21.1 ± 6.7
<b>Conservation Significant Flora:</b>	<i>Tetratheca erubescens</i> (R), <i>Beyeria rostellata</i> (P1), <i>Acacia dissona</i> var. <i>indoloria</i> (P3), <i>Austrostipa blackii</i> (P3), <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3), <i>Lepidosperma ferricola</i> (P3), <i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3), <i>Stenanthemum newbeyi</i> (P3), <i>Banksia arborea</i> (P4) and <i>Acacia</i> aff. <i>acuaria</i> (potentially undescribed)
<b>Introduced Flora:</b>	<i>Acetosa vesicaria</i> , <i>Brassica tournefortii</i> , <i>Bromus rubens</i> , <i>Carrichtera annua</i> , <i>Cleretum papulosum</i> subsp. <i>papulosum</i> , <i>Cuscuta planiflora</i> , <i>Ehrharta longiflora</i> , <i>Erodium aureum</i> , <i>Erodium cicutarium</i> , <i>Galium aparine</i> , <i>Hypochaeris glabra</i> , <i>Medicago minima</i> , <i>Monoculus monstrosus</i> , <i>Pentameris airoides</i> subsp. <i>airoides</i> , <i>Silene nocturna</i> , <i>Solanum nigrum</i> , <i>Sonchus oleraceus</i> and <i>Vulpia muralis</i>





**Vegetation Unit 10 (Quadrat KOOL-234) (Photo: Woodman Environmental)**

**VEGETATION UNIT 11:**

Low isolated trees and mallees of *Eucalyptus longissima*, *Banksia arborea* and *Brachychiton gregorii* over tall shrubland to open shrubland dominated by *Acacia* sp. Mt Jackson (B. Ryan 176) and *Allocasuarina eriochlamys* subsp. *eriochlamys* or *Allocasuarina acutivalvis* subsp. *acutivalvis* over mid open to sparse shrubland dominated by *Philotheca brucei* subsp. *brucei*, *Grevillea zygaloba*, *Eremophila clarkei*, *Scaevola spinescens* and *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207) over low sparse shrubland of mixed species including *Olearia humilis*, *Prostanthera althoferi* subsp. *althoferi*, *Hibbertia exasperata* and *Dianella revoluta* var. *divaricata* on red, red-brown or brown clay or clay-loam with ironstone stones, usually with banded ironstone outcropping, on the crests and slopes of ranges

**Total Area Mapped:** 311.6 ha

**Percentage of Study Area:** 18.2 %

**Sampling:** 40 quadrats – 36 in Study Area, 4 outside Study Area

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Isolated Trees and Mallees (Trees < 10 m)	<i>Banksia arborea</i> , <i>Brachychiton gregorii</i> , <i>Eucalyptus longissima</i>
Mid Stratum 1	Tall to Open Shrubland (Shrubs > 2 m)	<i>Acacia tetragonophylla</i> , <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> , <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> , <i>Dodonaea inaequifolia</i> , <i>Santalum spicatum</i>
Mid Stratum 2	Mid Open to Sparse Shrubland (Shrubs 1 - 2 m)	<i>Comesperma integerrimum</i> , <i>Eremophila clarkei</i> , <i>Grevillea zygaloba</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Mirbelia microphylla</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Scaevola spinescens</i>
Lower Stratum 1	Low Sparse Shrubland (Shrubs < 1 m)	<i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Hibbertia exasperata</i> , <i>Olearia humilis</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260), <i>Solanum lasiophyllum</i> , <i>Stenanthemum newbeyi</i>
Lower Stratum 2	Low Isolated Tussock Grasses; Low Isolated Forbs (<0.5 m)	<i>Austrostipa elegantissima</i> , <i>Austrostipa scabra</i> subsp. <i>scabra</i> ; <i>Cheilanthes adiantoides</i> , <i>Drosera ?macrantha</i> , <i>Rhyncharrhena linearis</i> , <i>Thysanotus manglesianus</i>

---

<b>Indicator Taxa:</b>	<i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Banksia arborea</i> , <i>Hibbertia exasperata</i> , <i>Olearia humilis</i> , <i>Philothea brucei</i> subsp. <i>brucei</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> and <i>Stenanthemum newbeyi</i>
<b>Landform Types:</b>	Crests and slopes of ranges
<b>Soil Types:</b>	Red, red-brown or brown clay or clay-loam with ironstone stones, usually with banded ironstone outcropping
<b>No. of Vascular Plant Taxa:</b>	105 (including 1 known hybrid)
<b>Average Taxon Richness:</b>	21.8 ± 4.7
<b>Conservation Significant Flora:</b>	<i>Tetratheca erubescens</i> (R), <i>Beyeria rostellata</i> (P1), <i>Austrostipa blackii</i> (P3), <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> (P3), <i>Lepidosperma ferricola</i> (P3), <i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) (P3), <i>Stenanthemum newbeyi</i> (P3), <i>Banksia arborea</i> (P4) and <i>Acacia</i> aff. <i>acuaria</i> (potentially undescribed)
<b>Introduced Flora:</b>	<i>Erodium aureum</i> and <i>Pentameris airoides</i> subsp. <i>airoides</i>





**Vegetation Unit 11 (Quadrat KOOL-065) (Photo: Woodman Environmental)**



**VEGETATION UNIT 12:**

Tall shrubland dominated by *Acacia* sp. narrow phyllode (B.R. Maslin 7831) and occasionally *Acacia caesaneura* (narrow phyllodes variant) over mid to low open shrubland dominated by *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Prostanthera semiteres* subsp. *semiteres*, *Mirbelia microphylla* and occasionally *Philotheca brucei* subsp. *brucei* on red or red-brown clay or clay loams with quartz and ironstone stones on lower slopes of ranges and low rises

**Total Area Mapped:** Not in Study Area

**Percentage of Study Area:** Not in Study Area

**Sampling:** 2 quadrats (all outside Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Isolated Clumps of Mallees (Mallees < 3m)	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
Mid Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Acacia caesaneura</i> (narrow phyllodes variant), <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Brachychiton gregorii</i> , <i>Melaleuca hamata</i>
Mid Stratum 2	Mid to Low Open Shrubland (Shrubs <1 - 2 m)	<i>Alyxia buxifolia</i> , <i>Cheiranthra filifolia</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> , <i>Eremophila granitica</i> , <i>Grevillea zygoloba</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Mirbelia microphylla</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> , <i>Rinzia carnos</i> , <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260), <i>Solanum cleistogamum</i> , <i>Solanum nummularium</i>
Lower Stratum 1	Low Isolated Tussock Grasses (Grasses < 0.5 m)	<i>Aristida contorta</i> , ? <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Austrostipa elegantissima</i> , <i>Austrostipa scabra</i> subsp. <i>scabra</i> , <i>Monachather paradoxus</i>
Lower Stratum 2	Low Isolated Forbs (<0.5 m)	<i>Brunonia australis</i> , <i>Cheilanthes</i> ? <i>adiantoides</i> , <i>Drosera</i> ? <i>macrantha</i> , <i>Rhyncharrhena linearis</i> , <i>Thysanotus</i> ? <i>manglesianus</i> , <i>Velleia hispida</i>

**Indicator Taxa:** *Acacia caesaneura* (narrow phyllodes variant), *Mirbelia microphylla*, *Monachather paradoxus*, *Prostanthera semiteres* subsp. *semiteres*, *Rhyncharrhena linearis* and *Rinzia carnos*

<b>Landform Types:</b>	Lower slopes of ranges and low rises
<b>Soil Types:</b>	Red or red-brown clay or clay loams with quartz and ironstone stones
<b>No. of Vascular Plant Taxa:</b>	30
<b>Average Taxon Richness:</b>	16 ± 2.8
<b>Conservation Significant Flora:</b>	None recorded
<b>Introduced Flora:</b>	None recorded



**Vegetation Unit 12 (Quadrat KOOL-044) (Photo: Woodman Environmental)**

**VEGETATION UNIT 13:**

Tall shrubland dominated by *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Melaleuca hamata* and occasionally *Acacia sibina* over mid to low sparse shrubland dominated by *Grevillea zygodoba*, *Hemigenia brachyphylla*, *Hibbertia eatoniae* and *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207) on red- or orange-brown clay or clay loams with laterite, ironstone and quartz stones on lower slopes of ranges

**Total Area Mapped:** 33.8 ha

**Percentage of Study Area:** 2.0 %

**Sampling:** 4 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Acacia sibina</i> , <i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> , <i>Melaleuca hamata</i>
Mid Stratum 1	Mid to Low Sparse Shrubland (Shrubs <1 - 2 m)	<i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Dodonaea caespitosa</i> , <i>Grevillea zygodoba</i> , <i>Hemigenia brachyphylla</i> , <i>Hibbertia eatoniae</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Malleostemon tuberculatus</i> , <i>Rinzia carnosus</i> , <i>Solanum cleistogamum</i> , <i>Solanum lasiophyllum</i>
Lower Stratum 1	Low Isolated Grasses (Grasses < 0.5 m)	<i>Aristida contorta</i> , <i>Austrostipa elegantissima</i> , <i>Austrostipa scabra</i> subsp. <i>scabra</i>
Lower Stratum 2	Low Isolated Forbs (<0.5 m)	<i>Cheilanthes ?adiantoides</i> , <i>Drosera ?macrantha</i> , <i>Thysanotus manglesianus</i>

**Indicator Taxa:** *Acacia sibina*, *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Dodonaea caespitosa*, *Grevillea zygodoba*, *Hemigenia brachyphylla*, *Hibbertia eatoniae* and *Malleostemon tuberculatus*

**Landform Types:** Lower slopes of ranges

**Soil Types:** Red- or orange-brown clay or clay loams with laterite, ironstone and quartz stones

**No. of Vascular Plant Taxa:** 25

**Average Taxon Richness:** 12 ± 2.2



**Conservation Significant Flora:** *Lepidosperma ferricola* (P3), *Stenanthemum newbeyi* (P3) and *Banksia arborea* (P4)

**Introduced Flora:** None recorded



**Vegetation Unit 13 (Quadrat KOOL-177) (Photo: Woodman Environmental)**



**VEGETATION UNIT 14:**

Tall shrubland dominated by *Allocasuarina eriochlamys* subsp. *eriochlamys*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia* sp. Mt Jackson (B. Ryan 176) and *Melaleuca hamata* over mid to low sparse shrubland of mixed species often dominated by *Prostanthera semiteres* subsp. *semiteres* on red or red-brown clay or clay loams with dolerite, ironstone and quartz stones on mid and lower slopes of ranges

**Total Area Mapped:** 11.5 ha

**Percentage of Study Area:** 0.7 %

**Sampling:** 4 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Acacia</i> sp. Mt Jackson (B. Ryan 176), <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> , <i>Brachychiton gregorii</i> , <i>Melaleuca hamata</i>
Mid Stratum 1	Mid to Low Sparse Shrubland (Shrubs <1 - 2 m)	<i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Hemigenia brachyphylla</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Pimelea spiculigera</i> var. <i>thesioides</i> , <i>Prostanthera semiteres</i> subsp. <i>semiteres</i> , <i>Solanum cleistogamum</i> , <i>Solanum lasiophyllum</i>
Lower Stratum 1	Low Isolated Tussock Grasses; Low Isolated Forbs (< 0.5 m)	<i>Austrostipa elegantissima</i> ; <i>Cheilanthes adiantoides</i> , <i>Drosera ?macrantha</i>

**Indicator Taxa:** *Solanum lasiophyllum*

**Landform Types:** Mid and lower slopes of ranges

**Soil Types:** Red or red-brown clay or clay loams with dolerite, ironstone and quartz stones

**No. of Vascular Plant Taxa:** 30

**Average Taxon Richness:** 13 ± 2.2

**Conservation Significant Flora:** *Stenanthemum newbeyi* (P3)

**Introduced Flora:** None recorded



**Vegetation Unit 14 (Quadrat KOOL-171) (Photo: Woodman Environmental)**

**VEGETATION UNIT 15:**

Low open mallee woodland of *Eucalyptus ewartiana* over tall shrubland dominated by *Acacia* sp. narrow phyllode (B.R. Maslin 7831) over low sparse shrubland dominated by *Hybanthus floribundus* subsp. *curvifolius* on red-brown clay with dolerite and quartz pebbles on low rises

**Total Area Mapped:** 19.6 ha

**Percentage of Study Area:** 1.1 %

**Sampling:** 2 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Open Mallee Woodland (Mallees < 3 m)	<i>Eucalyptus ewartiana</i>
Mid Stratum 1	Tall Shrubland (Shrubs > 2 m)	<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Allocasuarina helmsii</i>
Mid Stratum 2	Low Sparse Shrubland (Shrubs < 1 m)	<i>Cheiranthra filifolia</i> , <i>?Enchylaena x Maireana georgei</i> , <i>Hybanthus floribundus</i> subsp. <i>curvifolius</i> , <i>Pimelea spiculigera</i> var. <i>thesioides</i> , <i>Ptilotus nobilis</i> subsp. <i>nobilis</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum cleistogamum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum nummularium</i>
Lower Stratum 1	Low Isolated Grasses (Shrubs < 0.5 m)	<i>Austrostipa blackii</i> , <i>Austrostipa elegantissima</i>
Lower Stratum 2	Low Isolated Forbs (<0.5 m)	<i>Cheilanthes adiantoides</i> , <i>Drosera ?macrantha</i> , <i>Erodium cygnorum</i>

**Indicator Taxa:** *Allocasuarina helmsii*, *Eucalyptus ewartiana* and *Hybanthus floribundus* subsp. *curvifolius*

**Landform Types:** Low rises

**Soil Types:** Red-brown clay with dolerite and quartz pebbles

**No. of Vascular Plant Taxa:** 17 (including 1 putative hybrid)

**Average Taxon Richness:** 8 ± 2.8

**Conservation Significant Flora:** *Acacia dissona* var. *indoloria* (P3) and *Austrostipa blackii* (P3)



**Introduced Flora:**

None recorded



**Vegetation Unit 15 (Quadrat KOOL-122) (Photo: Woodman Environmental)**



**VEGETATION UNIT 16:**

Tall open shrubland dominated by *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Callitris columellaris*, *Melaleuca hamata* and *Melaleuca leiocarpa* over mid to low sparse shrubland dominated by *Alyxia buxifolia*, *Xerolirion divaricata*, *Hibbertia lepidocalyx* subsp. *tuberculata*, *Philotheca brucei* subsp. *brucei* and *Styphelia* sp. Bullfinch (M. Hislop 3574) on light brown clay with laterised ironstone stones over laterised ironstone outcropping on breakaways

**Total Area Mapped:** 15.9 ha

**Percentage of Study Area:** 0.9 %

**Sampling:** 3 quadrats (all in Study Area)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Tall Open Shrubland (Shrubs > 2 m)	<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> , <i>Callitris columellaris</i> , <i>Hakea recurva</i> subsp. <i>recurva</i> , <i>Melaleuca hamata</i> , <i>Melaleuca leiocarpa</i>
Mid Stratum 1	Mid to Low Sparse Shrubland (Shrubs <1 - 2 m)	<i>Acacia</i> aff. <i>acuaria</i> , <i>Alyxia buxifolia</i> , <i>Comesperma integerrimum</i> , <i>Eremophila metallicorum</i> , <i>Hibbertia lepidocalyx</i> subsp. <i>tuberculata</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Mirbelia microphylla</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Styphelia</i> sp. Bullfinch (M. Hislop 3574), <i>Xerolirion divaricata</i>
Lower Stratum 1	Low Isolated Forbs (<0.5 m)	<i>Cheilanthes adiantoides</i> , <i>Cyanicula amplexans</i> , <i>Drosera ?macrantha</i>

**Indicator Taxa:** *Alyxia buxifolia*, *Callitris columellaris*, *Hibbertia lepidocalyx* subsp. *tuberculata*, *Melaleuca leiocarpa*, *Styphelia* sp. Bullfinch (M. Hislop 3574) and *Xerolirion divaricata*

**Landform Types:** Breakaways

**Soil Types:** Light brown clay with laterised ironstone stones over laterised ironstone outcropping

**No. of Vascular Plant Taxa:** 19

**Average Taxon Richness:** 9.3 ± 3.1

**Conservation Significant Flora:** *Hibbertia lepidocalyx* subsp. *tuberculata* (P3), *Lepidosperma ferricola* (P3), *Styphelia* sp. Bullfinch (M. Hislop 3574) (P3) and *Acacia* aff. *acuaria* (potentially undescribed)

**Introduced Flora:** *Pentameris airoides* subsp. *airoides*



**Vegetation Unit 16 (Quadrat KOOL-139) (Photo: Woodman Environmental)**