

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	47 Te Awe Awe Street	
<b>Tree name</b>	Oak ( <i>Quercus robur</i> )	
<b>Location of the tree on the site</b>	At the end of a RoW, close to the boundary	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	28 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 25	Girth @ 1.4m: 5.67	Spread m: 31
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	27
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	9
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	21
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	27
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	21
<b>Subtotal</b>						114

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	9
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	21
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	21
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						87

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						3

### Total Points

**210**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review
<b>Pruning History</b>	Darryl Judd does the work on this tree. Excellent standard				
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Other (describe)	
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Mainly exotic/native	
<b>Local Environment</b>	Few trees	Some trees	Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature	
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	Refer to STEM score sheet				
<b>Crown Shape</b>	Super-typical !	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees
<b>Foliage Health</b>	Good	Poor, if so, explain	One or two suspicious twig deaths in outer crown – may be nothing		
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain			
<b>Trunk character</b>	Quite short, immense girth, well buttressed				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Pervious driveway and mulced bed
<b>Comments</b>					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>	routine	The owners will be applying to reduce the crown over the house the next time they prune the tree. Deadwood	Within the next 2 years thereafter 5 yearly		
<b>Health</b>	-				
<b>Safety</b>	-				
<b>Overhanging b'dry</b>	routine	This is undertaken every few years			

### Standard procedures

Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'ded for notable trees) - other

### Special Measures and recommendations

Mulch base – irrigate – improve drainage – underplant – cable brace - other

### Timeline

Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	Die-back in two outer branches – not serious, I hope.
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## Photographs.



Figure 1, the crown overhangs the neighbour's shed

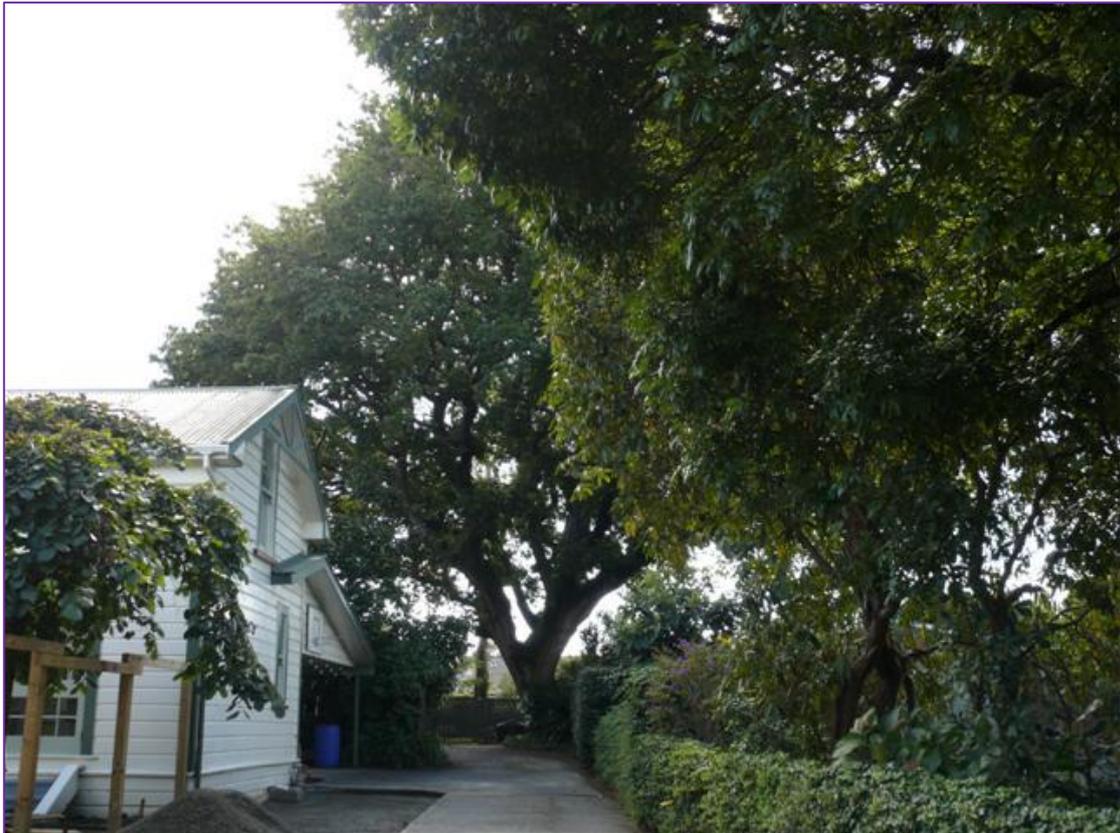


Figure 2, a statement at the end of the driveway



Figure 3, the trunk



Figure 4, the trunk and lower crown



Figure 5, OBT

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	82 Te Awe Awe Street	
<b>Tree name</b>	Scarlet oak ( <i>Quercus coccinea</i> )	
<b>Location of the tree on the site</b>	In the front garden, near the tennis court	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	28 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 11	Girth @ 1.4m: 3.2m	Spread m: 21
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	3
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	21
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	9
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	27
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	9
<b>Subtotal</b>						78

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	21
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	21
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						93

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	3
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						3

### Total Points

**177**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review	
<b>Pruning History</b>	The tree has been the subject of intense maintenance for at least 30 years; most recently it has had a large branch removed that was slowly sinking towards the ground and driveway., dead wood and re-balancing was undertaken. The work was necessary for safety reasons					
<b>Built Environment</b>	Small tight development	Standard suburban	Large house and grounds	Other (describe)		
<b>Garden environment</b>	Solo tree	Few trees	Many trees	exotic and native		
<b>Local Environment</b>	Few trees	Some trees		Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature		
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical	
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical	Atypical
<b>Form</b>	Refer to STEM score sheet					
<b>Crown Shape</b>	Typical	Atypical	Wide, spreading low crown	Influenced by wind	Affected by other trees	
<b>Foliage Health</b>	Good	Poor, if so, explain	Foliage health is variable poor at the top, good in some of the periphery			
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain	Poor, much rot,			
<b>Trunk character</b>	The trunk is infested with wood rotting fungi (see photos), the tree has started to fall over – there is a distinct mound of raised soil at the base of the tree.					
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface, if so, explain	
<b>Comments</b>	I doubt the tree will stay upright much longer. Darryl Judd of Guardian Tree services, is looking after the tree very well. He advocates some quite hard pruning to reduce the strain on the dodgy root plate and to encourage more upright growth. This will help keep the tree, but it will also reduce the undoubted character of the tree. On a personal note, I undertook some work on the tree back in 1979 – it was already a tree of great character back then.					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
Amenity					
Health	One off	Re-balance the crown as prescribed by DJ of Guardian Tree Services	Within the next few years		
Safety					
Overhanging b'dry					

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<b>Changes noticed in last five years</b>	Die-back/health – no great changes
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## Photographs.



Figure 1, a Ganoderma fungus bracket in one of the interstices between buttresses



Figure 2, as for fig one, at about 2m above ground



Figure 3



Figure 4, and fig. 3 - one of the large recent pruning cuts. Note discoloured heartwood.



Figure 5



Figure 6, Fig 5 – the tree in its setting.



Figure 7, the Kanuka



Figure 8, one of the low sweeping branches



Figure 9, some of the pruning over the driveway.



Figure 10, soil heave around the base.

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	82 Te Awe Awe Street	
<b>Tree name</b>	Kanuka ( <i>Kunzea ericoides</i> )	
<b>Location of the tree on the site</b>	Hard against the western front boundary	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	28 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 13	Girth @ 1.4m: 1.73	Spread m: 7
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	9
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	15
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	9
<b>Function</b>	Minor	Useful	Important	Significant	Major	15
<b>Age (years)</b>	10+	20+	40+	80+	100+	27
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	9
<b>Subtotal</b>						84

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	21
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	15
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	3
<b>Subtotal</b>						75

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	3
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	3
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						6

## Total Points

**165**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review
<b>Pruning History</b>	The tree is no longer in good health and one section has been removed, the other branch will soon fade, too.				
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Other (describe)	
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Exotic and native	
<b>Local Environment</b>	Few trees	Some trees	Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature	
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	Refer to STEM score sheet				
<b>Crown Shape</b>	Typical	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees
<b>Foliage Health</b>	Good	Poor, if so, explain	The tree is slowly dying.		
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain	Included bark unions		
<b>Trunk character</b>	The trunk is infected with heart rotting fungus, and the vitality of the tree is slipping away				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface, if so, explain
<b>Comments</b>	Only carry out necessary safety work.				

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>					
<b>Health</b>					
<b>Safety</b>	As needed	Remove dead and weak limbs, monitor strength of root system			
<b>Overhanging b'dry</b>					

### Standard procedures

Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'ded for notable trees) - other

### Special Measures and recommendations

Mulch base – irrigate – improve drainage – underplant – cable brace - other

### Timeline

Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	Die-back/health – - a little worse than at the last visit.
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## Photographs.



Figure 1. the top of the kanuka over the neighbouring house



Figure 2, not much left of the main trunk



Figure 3, fungus brackets in the main trunk



Figure 4, bark separating on the compression side



Figure 5, the tree in its place in the garden

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	88 Te Awe Awe Street	
<b>Tree name</b>	Four deodars, ( <i>Cedrus deodora</i> )	
<b>Location of the tree on the site</b>	Either side of the entrance gate.	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	28 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: to 24	Girth @ 1.4m: to 3.13	Spread m: together 25
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	27
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	15
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	27
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	21
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	21
<b>Subtotal</b>						120

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	27
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	15
<b>Role</b>	Minor	Moderate	Important	Significant	Major	27
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						99

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	3
Form	Local	District	Regional	National	International	3
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						6

### Total Points

**225**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review
<b>Pruning History</b>	Recent dead wooding and crown lifting				
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Other (describe)	
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Mainly exotic/native	
<b>Local Environment</b>	Few trees	Some trees	Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature	
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	Refer to STEM score sheet				
<b>Crown Shape</b>	Typical	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees
<b>Foliage Health</b>	Good	Poor, if so, explain			
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain			
<b>Trunk character</b>	The trunks of these trees are well shaped, cylindrical, straight				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Driveway – care needed when asphalt repairs are made
<b>Comments</b>					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>	Routine	As done in the past – deadwood, lower branches	5 years hence		
<b>Health</b>	Note	Any work on the driveway will require a consent to work under the dripline of the tree canopies			
<b>Safety</b>					
<b>Overhanging b'dry</b>					

### Standard procedures

Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'd for notable trees) - other

### Special Measures and recommendations

Mulch base – irrigate – improve drainage – underplant – cable brace - other

### Timeline

Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	No changes
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## Photographs.



Figure 1, the natural forest floor



Figure 2



Figure 3 and fig 2 above, the trees dominate the street frontage



Figure 4, healthy canopy



Figure 5, the trees in their garden setting



Figure 6, natural undergrowth

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	96 Te Awe Awe Street	
<b>Tree name</b>	Oak ( <i>Quercus robur</i> )	
<b>Location of the tree on the site</b>	Front, Left hand side	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	28 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 22	Girth @ 1.4m: 4.01	Spread m: 17
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	21
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	9
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	21
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	21
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	21
<b>Subtotal</b>						102

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	21
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	21
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						93

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						0

### Total Points

**195**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review	
<b>Pruning History</b>	The crown has been lifted to allow the house to be built/					
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Other (describe)		
<b>Garden environment</b>	Solo tree	Few trees	Many trees (large age gap)	Mainly exotic/native		
<b>Local Environment</b>	Few trees	Some trees	Well treed neighbourhood			
<b>Age Class</b>	young	Semi mature	Mature	Post mature		
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical	
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical	Atypical
<b>Form</b>	Refer to STEM score sheet					
<b>Crown Shape</b>	Typical	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees	
<b>Foliage Health</b>	Good	Poor, if so, explain				
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain				
<b>Trunk character</b>	The trunk is quite tall, it is straight and regularly cylindrical					
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface over the fence – some excavations around the root zone for the outdoor courtyard and barbecue. Adapted well.	
<b>Comments</b>	The tree is growing in a healthy and vigorous fashion. The crown will need frequent good quality pruning.					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
Amenity	routine	Prune away from house	Within five years, thereafter check quinquennially		
Health	-				
Safety	-				
Overhanging b'dry	-				

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<b>Changes noticed in last five years</b>	The tree is still healthy
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## Photographs.



Figure 1. the crown ins influenced by the wind



Figure 2m the crown overhangs the ROW



Figure 3, the tree in its garden



Figure 4

# Palmerston North City Council.

## Notable Tree Survey March 2011

<b>Address</b>	<b>7 Te Matai Road, off the Napier Road</b>
<b>Tree Name</b>	<b>Two cottonwood poplar trees (<i>Populus sp.</i> [hybrid])</b>
<b>Location of Tree(s) on Site</b>	<b>Entrance to the property off Te Matai Road</b>
<b>Owners' Name</b>	
<b>Date of Inspection</b>	<b>9 March 2011</b>

### Dimensions

Height: 22+	Girth @ 1.4m: 3.20	Spread: 28m (combined spread)
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	<b>Very good</b>	Specimen	21
<b>Occurrence</b>	Predominant	<b>Common</b>	Infrequent	Rare	Very rare	9
<b>Vigour and Vitality</b>	Poor	Some	Good	Very good	<b>Excellent</b>	27
<b>Function</b>	Minor	<b>Useful</b>	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	<b>40+</b>	80+	100+	15
<b>Stature (m)</b>	3 - 8	9 to 14	15 to 20	<b>21 to 26</b>	27+	21
Subtotal Points						102

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	<b>Visible from Road</b>	Front Yard	Semi Public	Public (free access)	9
<b>Visibility (from 1km)</b>	No view	Visible from Local Rd	Visible from Collector Rd	Visible from Principal Rd	<b>Visible from Arterial Rd</b>	27
<b>Proximity</b>	Forest	Parkland	<b>Group 10+</b>	Group 3+	Solitary	15
<b>Role</b>	Minor	Moderate	Important	<b>Significant</b>	Major	21
<b>Effect on Climate</b>	Minor	Moderate	<b>Important</b>	Significant	Major	15
Subtotal Points						87

### Notable Evaluation

Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
<b>Stature</b>						0
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						00
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						0
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
Subtotal Points						0
<b>Total Points</b>						<b>189</b>

The Standard Tree Assessment Method (STEM) [Author: Ron Flook] Modified PNCC

## Palmerston North City Council, Notable Tree Survey 2011

<b>Address</b>	<b>7 Te Matai Road, off the Napier Road</b>
<b>Tree Name</b>	<b>A group of three old oak trees</b>
<b>Location of Tree(s) on Site</b>	<b>Near the front boundary close to the Napier Road</b>
<b>Owners' Name</b>	
<b>Date of Inspection</b>	<b>9 March 2011</b>
<b>Dimensions</b>	
Height: 20	Girth @ 1.4m: to 2.7      Spread: 30m (combined spread)

Condition Evaluation						
Points	3	9	15	21	27	Score
<b>Form</b>	Poor	<b>Moderate</b>	<b>Good</b>	Very good	Specimen	12
<b>Occurrence</b>	Predominant	<b>Common</b>	Infrequent	Rare	Very rare	9
<b>Vigour and Vitality</b>	Poor	Some	<b>Good</b>	Very good	Excellent	15
<b>Function</b>	Minor	<b>Useful</b>	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	<b>100+</b>	27
<b>Stature (m)</b>	3 - 8	9 to 14	<b>15 to 20</b>	<b>21 to 26</b>	27+	15
Subtotal Points						87

Amenity Evaluation						
Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	<b>Visible from Road</b>	Front Yard	Semi Public	Public (free access)	9
<b>Visibility (from 1km)</b>	No view	Visible from Local Rd	Visible from Collector Rd	Visible from Principal Rd	<b>Visible from Arterial Rd</b>	27
<b>Proximity</b>	Forest	Parkland	<b>Group 10+</b>	Group 3+	Solitary	15
<b>Role</b>	Minor	Moderate	Important	<b>Significant</b>	Major	21
<b>Effect on Climate</b>	Minor	Moderate	<b>Important</b>	Significant	Major	15
Subtotal Points						87

Notable Evaluation						
Recognition Points	Local 3	District 9	Regional 15	National 21	International 27	Score
<b>Stature</b>						0
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						0
Age 100+	Local	<b>District</b>	Regional	National	International	9
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						0
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
Subtotal Points						9
<b>Total Points</b>						<b>183</b>

The Standard Tree Assessment Method (STEM) [Author: Ron Flook] Modified PNCC

## Palmerston North City Council, Notable Tree Survey 2011

**NEW TREE PROPOSED BY:** Mrs. Barbara Joe

**COMMENTS/REASON FOR PROPOSAL:** Telephone to PNCC June 2008

### ASSESSORS' NOTES:

The well-planted and mature nature of the garden, make this a delightful property. There are many other large trees and maturing trees on the site.

Both sets of trees score very high on the STEM assessment, above the threshold for inclusion in the register of notable trees. However, in the case of the poplar trees, I do not consider that they are suitable candidates – although the trees are large and have a high profile, as a species they are a) not very long-lived and b) prone to shedding large limbs at maturity. Therefore, I suggest that these two trees are not put on the list of notable trees.



Poplars not recommended for inclusion on the notable tree list.

The trees on the boundary alongside the Napier Road and the three oak trees are the remains of an old hedge cum shelterbelt and while this helps reduce the effects of wind, and gives shade to the garden, none of the trees is worth long-term preservation.

The three oak trees, on the other hand have a long life expectancy, and will be stable for a longer time. The following notes refer explicitly to the oak trees.

## Palmerston North City Council, Notable Tree Survey 2011

The understorey beneath the trees is maintained as a woodland garden with shade tolerant herbaceous plants and shrubs. There is some regeneration of native trees and shrubs, also some weed species.

**Damage (old and recent)** : the tree hut is no longer in use – it would be better for the tree if it were removed. Tree huts are not in themselves bad practice, but the construction methods such as nailing directly into the trunks and major branches can damage the trees. Nails left in the trees cause damage to machinery when the trees are felled.

Minor storm damage.

**Threats**: no perceived threats.

**Potential development nearby?**: Unknown.

**Suggested remedial work, care and maintenance:**

**Routine:** Deadwood removal as a matter of course - crown lifting over the lawn if required. Dead wood removal should be carried out in the next two years or so, followed by five yearly checks. Any crown lifting could be done at the same time.

**Special measures and recommendations:** the trees are growing in a healthy environment and no extra care is needed.



**Palmerston North City Council, Notable Tree Survey 2011**



# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	666 Tremain Ave	
<b>Tree name</b>	17 Phoenix palm ( <i>Phoenix canariensis</i> )	
<b>Location of the tree on the site</b>	Around the frontage of the factory	
<b>Owner's name</b>		
<b>Date of Inspection</b>	30 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: to 12	Girth @ 1.4m: 2.4	Spread m: 7 each tree
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	21
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	9
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	21
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	15
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	9
<b>Subtotal</b>						84

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	21
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	27
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	15
<b>Role</b>	Minor	Moderate	Important	Significant	Major	27
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						105

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						0

### Total Points

**189**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review	
<b>Pruning History</b>	Dead fronds removed regularly					
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Art Deco factory and grounds		
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Mainly exotic/native		
<b>Local Environment</b>	Few trees	Some trees		Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature		
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical	
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical	Atypical
<b>Form</b>	Refer to STEM scoresheet					
<b>Crown Shape</b>	Typical	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees	
<b>Foliage Health</b>	Good	Poor, if so, explain				
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain				
<b>Trunk character</b>	All trees in this group are in good condition, the trunks are all typical of the species, with no anomalies, nor damaged parts.					
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface, if so, explain	
<b>Comments</b>	Phoenix palms are considered to be undesirable in many parts of the country because of the invasive nature of their seeds. However, in this case the trees are an integral part of the development design and should be appreciated for the style and taste of the time. moreover, there is no large woodland area nearby where the species can become established unseen.					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>	<b>Routine</b>	Dead frond removal	Five to six yearly		
<b>Health</b>	-				
<b>Safety</b>	As above, in Amenity				
<b>Overhanging b'dry</b>					

<b>Standard procedures</b>	Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'nded for notable trees) - other
<b>Special Measures and recommendations</b>	Mulch base – irrigate – improve drainage – underplant – cable brace - other
<b>Timeline</b>	Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	Die-back/health – developments nearby – excavations nearby
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**Photographs.**



Figure 1



Figure 2



Figure 3. the building and trees are perfectly matched



Figure 4. Western road frontage

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	155a Victoria Street	
<b>Tree name</b>	European Beech ( <i>Fagus sylvatica</i> )	
<b>Location of the tree on the site</b>	On a gully side	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	29 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 20	Girth @ 1.4m:3+	Spread m: 20
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	<b>Good</b>	Very Good	Specimen	<b>15</b>
<b>Occurrence</b>	Predominant	Common	<b>Infrequent</b>	Rare	Very Rare	<b>15</b>
<b>Vigour &amp; Vitality</b>	Poor	Some	<b>Good</b>	Very Good	Excellent	<b>15</b>
<b>Function</b>	Minor	Useful	<b>Important</b>	Significant	Major	<b>15</b>
<b>Age (years)</b>	10+	20+	40+	<b>80+</b>	100+	<b>21</b>
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	<b>21 - 26</b>	27+	<b>21</b>
<b>Subtotal</b>						<b>102</b>

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	<b>Visible from Road</b>	Front Yard	Semi Public	Public (free access)	<b>9</b>
<b>Visibility</b>	No view	<b>Visible from local road</b>	Visible from collector rd	Visible from principal rd	Visible from arterial rd	<b>9</b>
<b>Proximity</b>	Forest	Parkland	<b>Group of 10+</b>	Group of 3+	Solitary	<b>15</b>
<b>Role</b>	Minor	Moderate	Important	Significant	<b>Major</b>	<b>27</b>
<b>Effect on Climate</b>	Minor	Moderate	Important	<b>Significant</b>	Major	<b>21</b>
<b>Subtotal</b>						<b>81</b>

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						<b>0</b>

## Total Points

**183**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review
<b>Pruning History</b>	Recent storm damage and dead wood removed to a high standard				
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	The tree is growing on a gully side, with development very close by	
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Mainly exotic/native	
<b>Local Environment</b>	Few trees	Some trees		Well treed neighbourhood	
<b>Age Class</b>	young	Semi mature	Mature	Post mature	
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical
<b>Structural Character</b>	Single leader	Double leader from 1.8m	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	Refer to STEM score sheet				
<b>Crown Shape</b>	Typical	Atypical	Wide/spreading/low crown	Influenced by wind	Affected by other trees
<b>Foliage Health</b>	Good	Poor, if so, explain			
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain			
<b>Trunk character</b>	Healthy, good colour bark, cylindrical, well buttressed				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Gully side, root damage from earlier earthworks seems to have been accommodated.
<b>Comments</b>	A wonderful tree, could live for many more decades, but remember that beech, like its NZ cousin, is not a long lived species. Not much more than 150 – 200 years (c.f. kauri 2 – 3 thousand years)				

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>		Carry on with the present regime	Five yearly schedule		
<b>Health</b>		Remove wind damaged branch tips			
<b>Safety</b>					
<b>Overhanging b'dry</b>					

### Standard procedures

Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'd for notable trees) - other

### Special Measures and recommendations

Mulch base – irrigate – improve drainage – underplant – cable brace - other

### Timeline

Now - 5 years - 5 yearly - As required

### Changes noticed in last five years

Die-back/health – developments nearby – excavations nearby. Die back of outer windward branch tips – this seems to be a feature of trees in PN and of beech in particular.

## **Photographs.**

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	240a Victoria Avenue	
<b>Tree name</b>	Red oak ( <i>Quercus rubra</i> )	
<b>Location of the tree on the site</b>	Front of garden, close to bndy	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	12 Sept 2013	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 118	Girth @ 1.4m: 3.26	Spread m: 20
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	15
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	15
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	21
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	15
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	15
<b>Subtotal</b>						84

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	21
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	21
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	15
<b>Subtotal</b>						93

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						

**Total Points**

**177**

# Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	<b>Owner</b>	Developer	DP Review
<b>Pruning History</b>	<b>Recent deadwooding and minor re-shaping by Guardian Tree Services</b>				
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	<b>Sub-divided off side of older section</b>	
<b>Garden environment</b>	Solo tree	<b>Few trees</b>	Many trees	Mainly exotic/native	
<b>Local Environment</b>	Few trees	Some trees	<b>Well treed neighbourhood</b>		
<b>Age Class</b>	young	Semi mature	<b>Mature</b>	Post mature	
<b>Special value</b>	Horticultural	Landscape	<b>Specimen</b>	Historical	Botanical
<b>Structural Character</b>	<b>Single leader</b>	Double leader	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	<b>Refer to STEM score sheet</b>				
<b>Crown Shape</b>	<b>Typical</b>	Atypical	Wide/spreading/low crown	Influenced by wind <b>minor</b>	Affected by other trees
<b>Foliage Health</b>	<b>Good</b>	Poor, if so, explain			
<b>Limb Structure</b>	<b>Typical or sound</b>	Atypical, if so, explain			
<b>Trunk character</b>	<b>Smooth, cylindrical</b>				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface, if so, explain <b>garden and driveway infrastructure. No adverse symptoms yet</b>
<b>Comments</b>					

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
<b>Amenity</b>	low	deadwood	2020		
<b>Health</b>	None needed at present				
<b>Safety</b>		As above			
<b>Overhanging b'dry</b>	yes	Over street			

### Standard procedures

Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'nded for notable trees) – other

### Special Measures and recommendations

Mulch base – irrigate – improve drainage – underplant – cable brace - other

### Timeline

Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	<b>Not applicable</b> Die-back/health – developments nearby – excavations nearby
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**Photographs.**



**173b Victoria Avenue**

# Palmerston North City Council

## Notable Tree Survey March and April 2011

<b>Address</b>	254 Victoria Avenue	
<b>Tree name</b>	Liquidambar ( <i>Liquidambar styraciflua</i> )	
<b>Location of the tree on the site</b>	On front lawn, approached via a long driveway	
<b>Owner's name</b>		
<b>Date of STEM Assessment</b>	29 March 2011	<b>Inspected by</b> John Wakeling

### Dimensions

Height m: 22	Girth @ 1.4m: 2.87	Spread m: 20
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### Condition Evaluation

Points	3	9	15	21	27	Score
<b>Form</b>	Poor	Moderate	Good	Very Good	Specimen	9
<b>Occurrence</b>	Predominant	Common	Infrequent	Rare	Very Rare	9
<b>Vigour &amp; Vitality</b>	Poor	Some	Good	Very Good	Excellent	15
<b>Function</b>	Minor	Useful	Important	Significant	Major	9
<b>Age (years)</b>	10+	20+	40+	80+	100+	15
<b>Stature (m)</b>	3-8m	9 - 14m	15 - 20m	21 - 26	27+	22
<b>Subtotal</b>						79

### Amenity Evaluation

Points	3	9	15	21	27	Score
<b>Public Accessibility</b>	Private	Visible from Road	Front Yard	Semi Public	Public (free access)	15
<b>Visibility</b>	No view	Visible from local road	Visible from collector rd	Visible from principal rd	Visible from arterial rd	15
<b>Proximity</b>	Forest	Parkland	Group of 10+	Group of 3+	Solitary	21
<b>Role</b>	Minor	Moderate	Important	Significant	Major	21
<b>Effect on Climate</b>	Minor	Moderate	Important	Significant	Major	9
<b>Subtotal</b>						81

### Notable Evaluation

Recognition Points	3	9	15	21	27	Score
<b>Stature</b>						
Feature	Local	District	Regional	National	International	
Form	Local	District	Regional	National	International	
<b>Historic</b>						
Age 100+	Local	District	Regional	National	International	
Association	Local	District	Regional	National	International	
Commemoration	Local	District	Regional	National	International	
Remnant	Local	District	Regional	National	International	
Relict	Local	District	Regional	National	International	
<b>Scientific</b>						
Source	Local	District	Regional	National	International	
Rarity	Local	District	Regional	National	International	
Endangered	Local	District	Regional	National	International	
<b>Subtotal</b>						0

### Total Points

**160**

## Inspection Report

<b>Requested for/by</b>	Routine	Storm Damage	Owner	Developer	DP Review
<b>Pruning History</b>					
<b>Built Environment</b>	Small tight dev'pment	Standard suburban	Large house and grounds	Other (describe)	
<b>Garden environment</b>	Solo tree	Few trees	Many trees	Mainly exotic/native	
<b>Local Environment</b>	Few trees	Some trees	Well treed neighbourhood		
<b>Age Class</b>	young	Semi mature	Mature	Post mature	
<b>Special value</b>	Horticultural	Landscape	Specimen	Historical	Botanical
<b>Structural Character</b>	Single leader	Double leader	Multi-stemmed	Included bark unions	Typical Atypical
<b>Form</b>	Refer to STEM scoresheet				
<b>Crown Shape</b>	Typical	Atypical	Wide spreading crown	Influenced by wind	Affected by other trees
<b>Foliage Health</b>	Good	Poor, if so, explain			
<b>Limb Structure</b>	Typical or sound	Atypical, if so, explain	As so frequently happens with liquidambar, there is a serious flaw in the branch structure – the trunk has a significant included bark branch union that needs attention.		
<b>Trunk character</b>	See above under Limb Structure				
<b>Root Zone</b>	Garden	Natural	Lawn/paddock	U/g services apparent?	Hard surface, if so, explain
<b>Comments</b>	The tree scores just at eh threshold of being a notable tree. It if it is to be retained on the list, it is important that the poor quality limb structure is addressed.				

## Maintenance Required

Category	Priority	Recommended Action	Timing (from April 2011)	Actioned	Completed
Amenity					
Health					
Safety	Quite urgent	Reduce the crown particularly on the stem with the included bark	Try to get this done soon		
Overhanging b'dry					

<b>Standard procedures</b>	Deadwood – crown lift – reduced crown width – thin crown – height reduction (not rec'nded for notable trees) - other
<b>Special Measures and recommendations</b>	Mulch base – irrigate – improve drainage – underplant – cable brace - other
<b>Timeline</b>	Now - 5 years - 5 yearly - As required

<b>Changes noticed in last five years</b>	The strain on the weak stem has increased
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## Photographs.



Figure 1. View of this large tree from Victoria Avenue





Figure 2. Short stem, with irregular branch habit, elegant tree house



Figure 3. tree crown from the driveway