

# CITY OF ARMADALE

## **A G E N D A**

**OF TECHNICAL SERVICES COMMITTEE TO BE HELD IN THE COMMITTEE ROOM, ADMINISTRATION CENTRE, 7 ORCHARD AVENUE, ARMADALE ON MONDAY, 23 JULY 2007, AT 7.00 PM.**

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*A meal will be served at 6.15pm.*

**PRESENT:**

**APOLOGIES:**

**OBSERVERS:**

**IN ATTENDANCE:**

**PUBLIC:**

## **DISCLAIMER**

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The Disclaimer for protecting Councillors and staff from liability of information and advice given at Committee meetings to be read by the Chairman.

## **DECLARATION OF MEMBER'S INTERESTS**

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## **QUESTION TIME**

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## **DEPUTATION**

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## **CONFIRMATION OF MINUTES**

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### **RESOLVED**

**Minutes of the Technical Services Committee Meeting held on 25 June 2007, be confirmed.**

**MOVED Cr  
SECONDED Cr**

## **ITEMS REFERRED FROM INFORMATION BULLETIN – ISSUE NO. 14**

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The following items were included for information in the “Technical Services” section:

- **Outstanding Matters**  
Report on Outstanding Matters – Technical Services Committee..... T-1
- **Monthly / Quarterly Departmental Reports**  
Technical Services Directorate Works Programme ..... T-2
- **Minutes from Occasional/Advisory Committees**  
Bungendore Park Management Committee Meeting No.279 – 23 May 2007.....T5  
Bungendore Park Management Committee Meeting No.280 – 27 June 2007..... T9
- **General Information**  
Construction Environmental Management Plan for the Dampier Bunbury Natural Gas Pipeline Stage 5  
Expansion ..... T14

*If any of the items listed above requires clarification or a report for a decision of Council, this item to be raised for discussion at this juncture.*

# I N D E X

## TECHNICAL SERVICES COMMITTEE

23 JULY 2007

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***DRAFT ENG 9 - MANAGING PHYTOPHTHORA DIEBACK POLICY AND MANAGEMENT PRACTICE***

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WARD	All
DATE	10 July 2007
REF	CO
RESPONSIBLE MANAGER	EDTS

**In Brief:-**

- In response to an action item in the *State of the Environment Report 2005* to improve environmental policy and management practices, a review of City of Armadale Policy ENG 9 *Managing Phytophthora Dieback* and its associated Management Practice has been undertaken.
- **Recommend**
  1. That Council resolve to adopt draft policy ENG 9 – Managing Phytophthora Dieback and its associated Management Practice.
  2. That Council note the revised Management Practice.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Enhance the City's Environmental Management Strategy and ensure the long-term sustainability of the City by implementing programmed environmental management actions.

City of Armadale's vision is to be "A place combining city living with a beautiful bushland setting" and "Clean, green and prosperous".

**Legislation Implications**

Full assessment of relevant legislation indicates no restriction.

**Council Policy / Local Law Implications**

Council policy *Managing Phytophthora Dieback ENG 9 and associated Management Practice* apply.

Current Policy *Attachment "A-3" of the Agenda (see Summary of Attachments – Green Page)*.

**Budget / Financial Implications**

The proposed new management practice identifies that dieback mapping should be undertaken prior to the undertaking of road construction, road reconstruction, drainage works and path construction in High PC Risk Sites. This is likely to result in increased costs of these projects.

Dieback mapping costs vary depending on the size of the area to be mapped. Recently 7km of vegetation either side of a road was mapped for dieback for approximately \$1,700. Comparatively, the cost of treating a dieback infected area is in the order of \$5,000 per hectare every four years. This Council item focuses on the trial implementation of this policy to one road construction project (O'Meagher Rd). This project did not require dieback mapping as the adjacent vegetation had previously been mapped for reserve management purposes.

For the O’Meagher Rd project the use of piped drainage to minimise dieback movement down slope cost approximately \$43,000 which was 22% of the overall road construction cost. If there was not an infection upslope piping would not have been needed. Other extra costs at this project were relatively minor because works could all be undertaken from an existing bitumen surface and washdown bays were not need.

The measures needed and therefore the costs will vary from site to site.

Analysis of the five year civil works plan indicates that the following dieback mapping will be required if this policy and management practice is endorsed:

- 2007/2008 - two roads will require dieback mapping;
- 2008/2009 – one road will require dieback mapping;
- 2009/2010 – five roads will require dieback mapping;
- 2010/2011 – four roads will require dieback mapping.

### **Financial Implications**

The proposed new management practice identifies that dieback mapping should be undertaken prior to the undertaking of road construction, road reconstruction, drainage works and path construction in High PC Risk Sites. This is likely to result in increased costs of these projects. Dieback mapping costs vary depending on the size of the area to be mapped. Recently 7km of vegetation either side of a road was mapped for dieback for approximately \$1,700. Comparatively, the cost of treating a dieback infected area is in the order of \$5,000 per hectare every four years.

This Council item focuses on the trial implementation of this policy to one road construction project. This project did not require dieback mapping as the adjacent vegetation had previously been mapped for reserve management purposes. The use of piped drainage to minimise dieback movement down slope cost approximately \$43,000 which was 22% of the overall road construction cost. If this policy and management practice is endorsed and implemented in the future, it is projected that the costs over 5 years would be less than the 22% calculated above.

Analysis of the five year civil works plan indicates that the following dieback mapping will be required if this policy and management practice is endorsed:

- 2007/2008 - two roads will require dieback mapping;
- 2008/2009 – one road will require dieback mapping;
- 2009/2010 – five roads will require dieback mapping;
- 2010/2011 – four roads will require dieback mapping.

### **Consultation**

- ◆ Staff consultation includes Executive Director Development Services, Manager Parks, Coordinator Parks, Manager Civil Works, Manager Engineering and Design, and Senior Environmental Planner.

## **INTRODUCTION AND BACKGROUND**

An increased effort to improve environmental policies and management practices is identified as an action item in the City of Armadale State of the Environment Report 2005. Over the past 12 months, a review of the City of Armadale Policy ENG 9 Managing Phytophthora Dieback and its associated Management Practice has been progressed by staff.

In December 2006, a report was provided to the Technical Services Committee to note the process involved in the review of this policy and management practice (T103/12/06). The approach as detailed in the December 2006 report is now complete.

A review of the ENG 9 Managing Phytophthora Dieback Policy and its associated Management Practice has now been completed. This review involved the trialling of a redrafted policy and management practice on a civil works road construction project, namely the widening and reconstruction of O’Meagher Rd in Karragullen.

The redrafted policy has also been considered by the Bushcare and Environmental Advisory Committee.

### **DETAILS OF PROPOSAL**

A change to the rationale of the existing policy and the structure and scope of the associated management practice is proposed.

The proposed changes to the policy rationale provide updated knowledge about dieback, the way it spreads and its impact on the environment. The proposed changes also now reflect the City vision.

The current management practice references a set of guidelines which the City should follow. These guidelines were developed by the Local Government Dieback Working Group and propose different dieback management procedures depending on high, medium and low risk categories of areas mapped across the City. Generally high risk areas included areas of remnant native vegetation such as reserves and rural lands, medium risk areas included residential areas with remnant vegetation and low risk areas where highly developed areas with minimal vegetation.

Whilst being very comprehensive, the format of the current guidelines which provide dieback management procedures for an array of different activities (i.e.: road construction or firebreak maintenance) within each risk category (high, medium and low) are complicated to follow as a quick reference. Following the guidelines requires first identifying which risk category the area belongs to, and then referring to different sections of the guidelines to determine which procedures relate to different activities.

Whilst retaining the guiding principles of the previous management practice, the proposed new management practice now lists these procedures under headings that relate to key activities that City staff undertake. These include:

- Supporting community volunteers;
- Planning and design of road construction, road reconstruction, drainage works and paths;
- Road, path and drainage construction/ maintenance;
- Managing bushland reserves;
- Undertaking fire suppression activities; and
- Landscaping.

The proposed new management practice has also been simplified to identify only one risk category which is termed High Risk PC Site (a site with a high risk of Phytophthora dieback spread). Only one set of practices is proposed to apply to areas where there is bushland of conservation value that could be threatened by dieback. High Risk PC Sites are defined as areas containing or adjacent to, remnant native vegetation that is not degraded, or that has vegetation which was planted for revegetation purposes.

In addition to the proposed simplification of risk categories, the proposed new management practice also requires the mapping of vegetation for dieback prior to the undertaking of road

construction, road reconstruction, drainage works and path construction in High PC Risk Sites.

This process has already been occurring for projects listed in the five year civil works program for civil works type projects adjacent to City reserves which contain bushland of conservation value. This practice provides more accurate information about what procedures may be required on-site to minimise dieback spread.

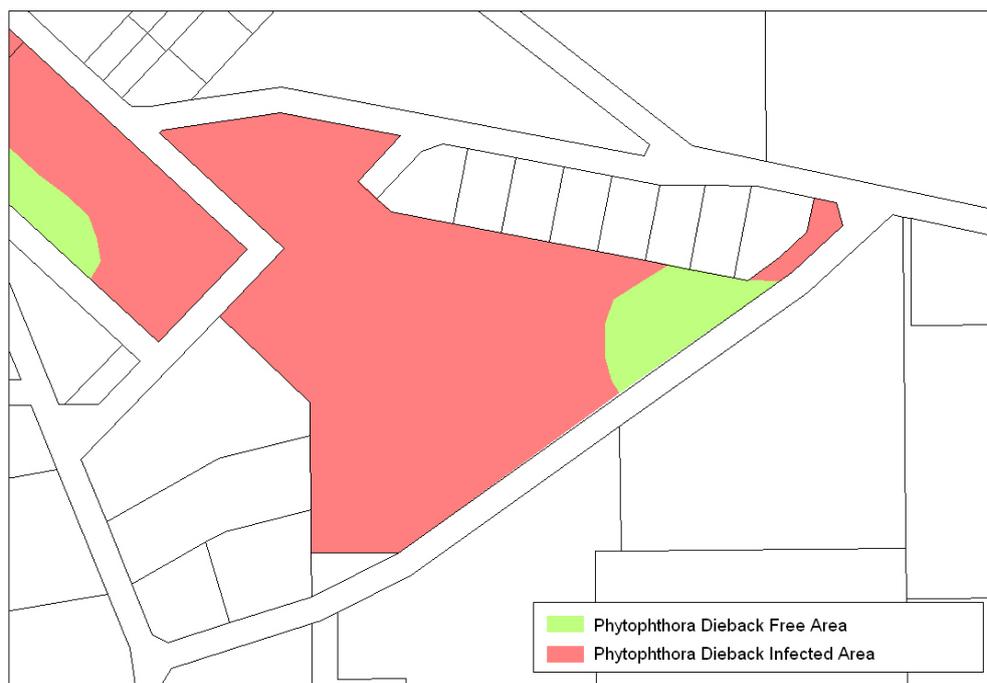
This proposed change in the scope of application of the management practice (by simplifying risk categories) and inclusion of requirements to map dieback occurrence on-ground prior to undertaking works provides for the more informed application of specific dieback management procedures.

## COMMENT AND ANALYSIS

### *Outcomes of the trialling of the redrafted policy on a road construction project.*

To test the achievability of the redrafted policy, a trial implementation of the proposed new management practice was undertaken for a road widening and construction project on O’Meagher Rd in Karragullen. This road was selected as one side could be considered a High Risk PC Site as it contained remnant native vegetation in good condition, both on the verge and on the adjacent land.

Consistent with the redrafted policy, the verge and adjacent crown land was mapped for dieback. It was found that the crown reserve and verge adjacent to the northern side of O’Meagher Rd contained dieback on the upper sections for 75m and lower extent of the hill for approximately 220m. There was also found to be a dieback free section approximately 150m long in the middle section of the road (see Figure 1). Prior to the implementation of the road widening and reconstruction project, the drainage travelled in a south westerly direction in an open drain.



**Figure 1: Phytophthora dieback mapping of the verge and bushland adjacent to O’Meagher Rd in Karragullen.**

The trial implementation of the redrafted policy and management practice was successful. The success in implementing specific sections of the redrafted management practice is detailed in the analysis section below. Minor changes to the redrafted policy and management practice resulted from the implementation trial at O’Meagher Rd. These changes are now incorporated in proposed new management practice *Attachment “A-1” of the Agenda (see Summary of Attachments – Green Page)*.

*Comment of the Bushcare and Environmental Advisory Committee*

The Bushcare and Environmental Advisory Committee (BEAC) considered the draft policy and management practice at their March 2006 meeting, proposing minor changes. BEAC recommended that the redrafted ENG 9 Managing Phytophthora Dieback Policy and associated Management Practice be adopted by Council.

**ANALYSIS**

The results of the trial implementation of the redrafted policy on O’Meagher Rd project are presented in *Attachment “A-2” of the Agenda (see Summary of Attachments – Green Page)*. Generally, the project was implemented consistent with the clauses of the redrafted management practice. The following aspects of the trial were of particular interest and are illustrated in Figures Two to Four. These aspects are also further explained in Attachment 2.



**Figure 2: Innovative design of road drainage. By piping the section the road which intersects a dieback free area, there is a reduced risk of dieback spread by the movement of water and spores from the upslope dieback infected area.**



**Figure 3: The clear marking of dieback areas on site during the construction process reduced confusion about what areas were Clean (dieback free) and Diseased (contains dieback).**



**Figure 4: The clear marking of stockpiling areas on the site during the construction process ensured soil was not mistakenly transferred after materials were delivered and before they were installed.**

## OPTIONS

1. Council could resolve to adopt the proposed new ENG 9 Managing Phytophthora Dieback Policy and its associated Management Practice.
2. Council could resolve to refer the proposed new ENG 9 Managing Phytophthora Dieback Policy and its associated Management Practice back to officers for further consideration.

## **CONCLUSION**

A review of the current ENG 9 Managing Phytophthora Dieback Policy and its associated Management Practice has recently been completed. This review involved redrafting the current policy and management practice with a new structure and scope of application, and trialling the redrafted management practice on a civil works road construction project. The trial application of this policy to the road construction project was successful and the project was implemented consistent with the clauses of the redrafted management practice.

Therefore Option 1 is recommended.

## **RECOMMEND**

- 1. That Council adopt draft policy ENG 9 – Managing Phytophthora Dieback and its associated Management Practice.**
- 2. That Council note the revised Management Practice.**

MOVED Cr  
MOTION CARRIED/LOST

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***TENDER NO. 18/07 – WEED SPRAYING SERVICES***

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WARD All  
FILE REF  
DATE 23 July 2007  
REF AL  
RESPONSIBLE MANAGER MP

**In Brief:**

- Tender No. 18/07 was recently called for the Supply of Weed Spraying Services.
- Four tenders were received by the specified closing time.
- The tender from Supa Pest & Weed Control has been assessed as being the most advantageous to Council.
- **Recommend**  
That with Tender No. 18/07- Supply of Weed Spraying Services, Council accepts the tender of *Supa Pest & Weed Control* for the period 9 August 2007 to 9 August 2009 in accordance with their submitted tender and Council's contract documentation.

**Tabled Items**

Tender documents  
Tenders received  
Summary of Tender Assessment

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Implement long term preventative maintenance and refurbishment programs

2.1

- a) Determine levels of service based on community needs, infrastructure standards, refurbishment requirements and public liability.
- b) Identify the need for reserve funds and overall level of funding for preventative maintenance and refurbishment.

**Legislation Implications**

Assessment of legislation indicates that the following regulations apply:

*Local Government Act (Functions and General) Regulations 1996 s3.57 (11)(2)(f)*

**Council Policy/Local Law Implications**

Assessment of Policy/Local Law indicates that the following are applicable:

*Policy ENG 5 – Tendering and Purchasing*

**Budget/Financial Implications**

Total current budget allocation of \$120,000 is within project costs.

**Consultation**

Nil.

**BACKGROUND**

Herbicide spraying is used to control weed growth within the municipality on rural and major roads, within parks and reserves and on footpaths and cycleways.

With any spraying operation there is a need to be sensitive towards the potential environmental impact of such works. The tender specification spells out clearly Council's requirements in this regard – namely the need to avoid damage to native vegetation, minimize

the possibility of contamination of water courses, the standard of work should require a mortality rate of 95%, appropriate plant, equipment, accredited field staff and all the necessary safety equipment including signage.

### EXISTING CONTRACT INFORMATION

Essential details of the existing contract are as follows:

**Table 1: Existing Contract Information**

<b>Current Contractor</b>	Supa Pest and Weed
<b>Contract Type</b>	Schedule of Rates
<b>Contract Duration</b>	Two years
<b>Commencement Date</b>	8 August 2005
<b>Expiry Date</b>	8 August 2007
<b>Extension Permitted</b>	No
<b>Rise And Fall Included</b>	No

### DETAILS OF PROPOSAL

The tender involves the supply of weed spraying services on road verges, parks, bush reserves, footpaths and cycleways throughout the City.

### NEW CONTRACT INFORMATION

Essential details of the new contract are as follows:

**Table 2: New Contract Information**

<b>Contract Type</b>	Schedule of Rates
<b>Contract Duration</b>	Two years
<b>Commencement Date</b>	9 August 2007
<b>Expiry Date</b>	9 August 2009
<b>Extension Permitted</b>	No
<b>Rise And Fall Included</b>	No

### SELECTION CRITERIA

The selection criteria and weightings for the evaluation of the tender are as follows.

**Table 3: Selection Criteria**

<b>Description of Selection Criteria</b>	<b>Weighting</b>
<p><b>Capability/competence of Tenderer to perform the work required</b></p> <ul style="list-style-type: none"> <li>▪ Qualifications, skills and experience of key personnel</li> <li>▪ Plant, equipment and staff resources available</li> <li>▪ Percentage of operational capacity represented by this work</li> <li>▪ Quality systems</li> </ul>	<b>25%</b>

<b>Description of Selection Criteria</b>	<b>Weighting</b>
<p><b>Experience of Tenderer in supplying similar goods or completing similar projects</b></p> <ul style="list-style-type: none"> <li>▪ Relevant industry experience (including public sector), including details of similar work undertaken</li> <li>▪ The Tenderer's involvement in these projects, including details of outcomes produced</li> <li>▪ Past record of performance and achievement</li> <li>▪ References from past and present clients</li> <li>▪ Occupational safety and health track record</li> </ul>	<b>25%</b>
<p><b>Understanding of Requirement</b></p> <ul style="list-style-type: none"> <li>▪ Level of understanding of Tender documents</li> <li>▪ Level of understanding of work required</li> <li>▪ Ability to meet delivery dates</li> <li>▪ Warranties offered</li> <li>▪ Added value items offered</li> <li>▪ Special conditions included in Tender</li> </ul>	<b>20%</b>
<p><b>Tendered Price/s</b></p> <ul style="list-style-type: none"> <li>▪ The price to supply the goods or services in accordance with the Request</li> <li>▪ Rates or prices for variations</li> </ul>	<b>30%</b>
<b>TOTAL</b>	<b>100%</b>

## TENDERS RECEIVED

Tenders were received from:  
Gecko Contracting Turf & Landscape Maintenance  
Supa Pest and Weed Control  
Aaron Lee Pest Control Pty Ltd  
AusmicBoomerang Pest & Weed Control

The tendered prices are for 9 August 2007 to 9 August 2009

Details of tenders received are as follows:

**Table 4: Rural Road Verges**

<b>Tenderer</b>	<b>Tendered Price Schedule A: Rural Road Verges</b>	<b>Expected No. of Applications Per Year</b>	<b>Estimated Annual Cost</b>
Gecko Contracting	\$11,115.00	2	<b>\$22,230.00</b>
Supa Pest and Weed Control	\$10,485.78	2	<b>\$20,971.56</b>
Aaron Lee Pest Control	\$6,241.76	2	<b>\$12,483.52</b>
AusmicBoomerang	\$6,687.60	2	<b>\$13,375.20</b>

**Table 5 : Major Road Verges**

<b>Tenderer</b>	<b>Tendered Price Schedule B: Major Road Verges</b>	<b>Expected No. of Applications Per Year</b>	<b>Estimated Annual Cost</b>
Gecko Contracting	\$6,035.00	6	<b>\$36,210.00</b>
Supa Pest and Weed Control	\$5,619.59	6	<b>\$33,717.54</b>
Aaron Lee Pest Control	\$896.64	6	<b>\$5,379.84</b>
AusmicBoomerang	\$2,521.80	6	<b>\$15,130.80</b>

**Table 6: Miscellaneous Road Verges**

<b>Tenderer</b>	<b>Tendered Price Schedule C: Misc. Road Verges (\$/km)</b>	<b>Expected No. of Km/Year</b>	<b>Estimated Annual Cost</b>
Gecko Contracting	\$44.00	100	<b>\$4,400.00</b>
Supa Pest and Weed Control	\$44.40	100	<b>\$4,440.00</b>
Aaron Lee Pest Control	\$28.00*	100	<b>\$2,800.00</b>
AusmicBoomerang	\$35.00	100	<b>\$3,500.00</b>

*\* Estimated from Aaron Lee's Rural Roads rate*

**Table 7: Reserves: Boom Spraying**

<b>Tenderer</b>	<b>Tendered Price Schedule D: Reserves Boom Spraying - Bromoxynil</b>	<b>Tendered Price Schedule D: Reserves Boom Spraying – Glyphosate</b>	<b>Tendered Price Schedule D: Reserves Boom Spraying – Spearhead</b>	<b>Tendered Price Schedule D: Reserves Boom Spraying – Fusilade</b>	<b>Tendered Price Schedule D: Reserves Boom Spraying – Dimension</b>	<b>Estimated Annual Cost</b>
Gecko Contracting	\$154.00	\$110.00	\$220.00	\$440.00	\$550.00	<b>\$51,700.00</b>
Supa Pest and Weed Control	\$92.00	\$110.00	\$256.00	\$105.00	\$210.00	<b>\$30,050.00</b>
Aaron Lee Pest Control	\$166.00	\$160.00	\$258.00	\$316.00	\$735.00	<b>\$62,710.00</b>
AusmicBoomerang	\$166.00	\$140.00	\$260.00	\$490.00	\$730.00	<b>\$64,100.00</b>

**Table 8: Reserves Hand Spraying**

<b>Tenderer</b>	<b>Tendered Price Schedule D: Reserves Hand Spraying - Bromoxynol</b>	<b>Tendered Price Schedule D: Reserves Hand Spraying - Glyphosate</b>	<b>Tendered Price Schedule D: Reserves Hand Spraying - Spearhead</b>	<b>Tendered Price Schedule D: Reserves Hand Spraying - Fusilade</b>	<b>Tendered Price Schedule D: Reserves Hand Spraying - Dimension</b>	<b>Estimated Annual Cost</b>
<b>Gecko Contracting</b>						<b>\$771,750.00</b>
< 100m2	\$27.50	\$27.50	\$55.00	\$60.00	\$80.00	
100 – 1000m2	\$50.00	\$44.00	\$77.00	\$132.00	\$160.00	
>1000m2	\$71.50	\$55.00	\$99.00	\$242.00	\$363.00	
<b>Supa</b>						<b>\$570.00</b>
< 100m2	\$0.06	\$0.06	\$0.15	\$0.10	\$0.08	
100 – 1000m2	\$0.05	\$0.04	\$0.13	\$0.09	\$0.07	
>1000m2	\$0.03	\$0.03	\$0.12	\$0.07	\$0.06	
<b>Aaron Lee Pest Control</b>						<b>\$3,575.00</b>
< 100m2	\$0.85	\$0.85	\$0.87	\$0.89	\$1.20	
100 – 1000m2	\$0.25	\$0.25	\$0.27	\$0.29	\$0.31	
>1000m2	\$0.20	\$0.20	\$0.22	\$0.24	\$0.26	
<b>AusmicBoomerang</b>						<b>\$339.00</b>
< 100m2	\$0.023	\$0.020	\$0.040	\$0.070	\$0.10	
100 – 1000m2	\$0.020	\$0.018	\$0.036	\$0.060	\$0.09	
>1000m2	\$0.018	\$0.016	\$0.032	\$0.055	\$0.08	

**Table 9: Paths/Cycleways: Boom Spraying**

<b>Tenderer</b>	<b>Tendered Price Schedule E: Paths/Cycleways Boom Spraying (\$/m)</b>	<b>Expected No. of Lineal Metres/Year</b>	<b>Expected No. of Applications Per Year</b>	<b>Estimated Annual Cost</b>
Gecko Contracting	\$0.22	260,000	2	<b>\$114,400</b>
Supa Pest and Weed Control	\$0.022	260,000	2	<b>\$11,440</b>
Aaron Lee Pest Control	\$0.0295	260,000	2	<b>\$15,340</b>
AusmicBoomerang	\$0.023	260,000	2	<b>\$11,960</b>

**Table 10: Paths/Cycleways: Hand Spraying**

<b>Tenderer</b>	<b>Tendered Price Schedule E: Paths/Cycleways - Hand Spraying</b>	<b>Estimated m2 Per Year</b>	<b>Estimated Annual Cost</b>
<b>Gecko Contracting</b>			<b>\$750.00</b>
< 100m2	\$0.020	3000	
100 – 1000m2	\$0.080	3000	
>1000m2	\$0.150	3000	
<b>Supa Pest and Weed Control</b>			<b>\$420.00</b>
< 100m2	\$0.050	3000	
100 – 1000m2	\$0.050	3000	
>1000m2	\$0.040	3000	
<b>Aaron Lee Pest Control</b>			<b>\$3,900.00</b>
< 100m2	\$0.850	3000	
100 – 1000m2	\$0.250	3000	
>1000m2	\$0.200	3000	
<b>AusmicBoomerang</b>			<b>\$261.00</b>
< 100m2	\$0.033	3000	
100 – 1000m2	\$0.029	3000	
>1000m2	\$0.025	3000	

**Table 11: Summary of Estimated Total Annual Expenditure Based on Tenders Received**

<b>Tenderer</b>	<b>Sch.A</b>	<b>Sch.B</b>	<b>Sch.C</b>	<b>Sch.D Boom</b>	<b>Sch.D Hand</b>	<b>Sched.E Boom</b>	<b>Sched. E Hand</b>	<b>Estimated Annual Expenditure</b>
<b>Gecko</b>	\$22,230	\$36,210	\$4,400	\$51,700	\$771,750	\$114,400	\$750	<b>\$1,001,440</b>
<b>Supa</b>	\$20,972	\$33,718	\$4,440	\$30,050	\$570	\$11,440	\$420	<b>\$101,609</b>
<b>Aaron Lee</b>	\$12,484	\$5,380	\$2,799	\$62,710	\$3,575	\$15,340	\$3,900	<b>\$106,187</b>
<b>AusmicBoomerang</b>	\$13,375	\$15,131	\$3,500	\$64,100	\$339	\$11,960	\$261	<b>\$108,666</b>

## TENDER EVALUATION

All tenderers conformed to the requirements of the tender document and have many years experience in the herbicide application practices required under this contract. Furthermore the comparison between the previous and proposed Tender indicates a 1.5% reduction in costs.

**Table 12: Cost comparison of Previous and Proposed Tender**

	Sch.A	Sch.B	Sch.C	Sch.D Boom	Sch.D Hand	Sched.E Boom	Sched. E Hand	Estimated Annual Expenditure
<b>Tender 20/05(Supa)</b>	\$15,381	\$44,609	\$4,440	\$24,300	\$1,244	\$12,740	\$465	<b>\$103,179</b>
<b>Tender 18/07 (Supa)</b>	\$20,972	\$33,718	\$4,440	\$30,050	\$570	\$11,440	\$420	<b>\$101,609</b>
<b>Percentage (+/-)</b>	<b>+36.35%</b>	<b>-24.41%</b>	<b>0</b>	<b>+23.66%</b>	<b>-54.185</b>	<b>-11.36%</b>	<b>-10.7%</b>	<b>-1.5%</b>

## TENDER RANKINGS

The result of the evaluation after the application of the selection criteria indicates that the tender from **Supa Pest and Weed Control** is the most advantageous to Council. Supa pest and Weed has been Councils Spraying contractor for the past two years and have provided a professional service and have the plant, equipment and staff to cope with the requirements of this contract.

The tender rankings resulting from the application of the selection criteria are as follows.

**Table 12: Tender Rankings**

<b>Tenderer</b>	<b>Ranking</b>
Supa Pest and Weed Control	1
Aaron Lee Pest Control Pty Ltd	2
AusmicBoomerang Pest and Weed Control	3
Gecko Contracting Turf & Landscape Maintenance	4

## CONCLUSION

It is recommended that the tender be awarded to **Supa Pest and Weed Control** as they have satisfied the selection criteria and are ranked number one in the tender evaluation.

The estimated annual expenditure of \$101,609 on herbicide spraying of road verges, parks and reserves, footpaths and cycleways is within the 2007/08 maintenance budgets allocations of Parks and Reserves and Civil Works.

## RECOMMEND

**That with Tender No. 18/07 - Supply of Weed Spraying Services, Council accepts the tender of Supa Pest and Weed Control for the period 9 August 2007 to 9 August 2009 in accordance with their submitted tender and Council's contract documentation.**

MOVED Cr  
MOTION CARRIED/LOST

---

***TENDER NO. 17/07 – PRUNING AND REMOVAL OF TREES***

---

WARD All  
FILE REF  
DATE 23 July 2007  
REF AL  
RESPONSIBLE MANAGER MP

**In Brief:**

- Tender No. 17/07 was recently called for the Pruning and Removal of Trees.
- One tender was received by the specified closing time.
- The submitted tender from Beaver Tree Services has been assessed as being the most advantageous to Council
- **Recommend**  
That with Tender No. 17/07 - Supply of Pruning and Removal of Trees, Council accepts the tender of **Beaver Tree Services**, for the period 9 August 2007 to 9 August 2009 in accordance with their submitted tender and Council's contract documentation.

**Tabled Items**

Tender documents  
Tender received  
Summary of Tender Assessment

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Implement long term preventative maintenance and refurbishment programs

2.1

- a) Determine levels of service based on community needs, infrastructure standards, refurbishment requirements and public liability.
- b) Identify the need for reserve funds and overall level of funding for preventative maintenance and refurbishment.

**Legislation Implications**

Assessment of legislation indicates that the following regulations apply:

*Local Government Act (Functions and General) Regulations 1996 s3.57 (11) (2) (f)*

**Council Policy/Local Law Implications**

Assessment of Policy/Local Law indicates that the following are applicable:

*Policy ENG 5 – Tendering and Purchasing*

**Budget/Financial Implications**

Total current budget allocation for street trees \$670,000

**Consultation**

Nil.

**BACKGROUND**

An existing tender for the Pruning and Removal of Trees concludes on the 8<sup>th</sup> August 2007. As a result a new tender for the Pruning and Removal of Trees is required in order to have an unbroken supply of these services.

The City has around 6,500 street trees which need regular pruning to maintain the 2m clearance under low & high voltage powerlines as required by Western Power. Also a

number of street trees require the vegetation to be pruned away from the lead-in wire to the house.

Street trees on the non-wired side of the road are generally left to grow naturally but still require pruning to remove dead, diseased or dangerous limbs or maintain clearances off roads. Trees within parks and reserves also need pruning to maintain clearances for mowing operations.

Tree removals are undertaken as a last resort when a tree is dead, diseased, severely damaged or dangerous and are causing an unacceptable damage to infrastructure.

Major tree pruning and removal work is usually necessary in the aftermath of winter storms.

### **EXISTING CONTRACT INFORMATION**

The current supplier of Pruning and Removal of Trees is Beaver Tree Services.

### **DETAILS OF PROPOSAL**

The Request for Tenders was advertised on Saturday 16<sup>th</sup> June 2007. Eight organisations requested tender documents with only one tender from Beaver Tree Services being received by the closing date.

The tender involves the provision of services for the Pruning and Removal of Trees within the City for a period of two years.

### **NEW CONTRACT INFORMATION**

Essential details of the new contract are as follows:

**Table 1: New Contract Information**

<b>Contract Type</b>	Schedule of Rates
<b>Contract Duration</b>	Two years
<b>Commencement Date</b>	9 August 2007
<b>Expiry Date</b>	9 August 2009
<b>Extension Permitted</b>	No
<b>Rise And Fall Included</b>	No

### **SELECTION CRITERIA**

The selection criteria and weightings for the evaluation of the tender are as follows:

**Table 2: Selection Criteria**

<b>Description of Selection Criteria</b>	<b>Weighting</b>
<p><b>Capability/competence of Tenderer to perform the work required</b></p> <ul style="list-style-type: none"> <li>▪ Qualifications, skills and experience of key personnel</li> <li>▪ Plant, equipment and staff resources available</li> <li>▪ Percentage of operational capacity represented by this work</li> <li>▪ Quality systems</li> </ul>	<b>30%</b>
<p><b>Experience of Tenderer in supplying similar goods or completing similar projects</b></p> <ul style="list-style-type: none"> <li>▪ Relevant industry experience (including public sector), including details of similar work undertaken</li> <li>▪ The Tenderer's involvement in these projects, including details of outcomes produced</li> <li>▪ Past record of performance and achievement</li> <li>▪ References from past and present clients</li> <li>▪ Occupational safety and health track record</li> </ul>	<b>25%</b>
<p><b>Understanding of Requirement</b></p> <ul style="list-style-type: none"> <li>▪ Level of understanding of Tender documents</li> <li>▪ Level of understanding of work required</li> <li>▪ Ability to meet delivery dates</li> <li>▪ Warranties offered</li> <li>▪ Added value items offered</li> <li>▪ Special conditions included in Tender</li> </ul>	<b>20%</b>
<p><b>Tendered Price/s</b></p> <ul style="list-style-type: none"> <li>▪ The price to supply the goods or services in accordance with the Request</li> <li>▪ Rates or prices for variations</li> </ul>	<b>25%</b>
<b>TOTAL</b>	<b>100%</b>

**TENDER RECEIVED**

Tenders were received from:

**Beaver Tree Services**

The tendered prices are for 9<sup>th</sup> August 2007 to 9<sup>th</sup> August 2009

**Table 3: Schedule A – Tree Pruning**

<b>Pruning Type</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Section Prune - Non Wires	\$24.20	\$24.20	0
Section Prune - Under Wires	\$25.30	\$24.20	- 4%
Under Prune Only - Non Wires	\$27.50	\$27.50	0
Under Prune Only - Under Wires	\$15.30	\$16.50	+ 8%
Side Prune Only - Non Wires	\$49.50	\$55.00	+ 11%
Side Prune Only - Under Wires	\$14.30	\$16.50	+ 15%
Flat Top & Under Prune Only	\$33.00	\$33.00	0
Section, Under Prune & Side Prune - Non Wires	\$38.50	\$33.00	- 14%
Section, Under Prune & Side Prune - Under Wires	\$29.70	\$27.50	- 7%
Canopy Thinning - Non Wires Only	\$313.50	\$330.00	+ 5%

**Table 4: Schedule B – Tree Removal**

<b>Tree Heights</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
0 - 3 m high	\$38.50	\$44.00	+ 14%
3.1 - 6m high	\$143.00	\$165.00	+ 15%
6.1 - 9 m high	\$385.00	\$385.00	0
9 metres high plus	\$715.00	\$715.00	0

**Table 5: Schedule C – Environmental Works\***

<b>Environmental Works</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Environmental Works	N/A	\$220.00	N/A

*\* New category added to tender to ensure the sensitive nature of environmental works are addressed separately to the existing schedules. This work entails the precise and careful removal of limbs by the successful tenderer at the direction of Council Officers.*

**Table 6: Schedule D – Stump Removal**

<b>Stump Diameter</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Up to 500mm	\$44.00	\$44.00	<b>0</b>
501mm - 750mm	\$66.00	\$66.00	<b>0</b>
751mm - 1000mm	\$88.00	\$88.00	<b>0</b>
> 1000mm	\$132.00	\$132.00	<b>0</b>

**Table 7: Schedule E – Root Grinding**

<b>Root Grinding</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Price per Hour	\$110.00	\$110.00	<b>0</b>

**Table 8: Schedule F – Emergency Callout Out & Clean Up Works**

<b>Emergency Callout &amp; Clean Up Works</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Emergency Call Out (to make Safe)	\$220.00	\$198.00	- 10%
Clean Up Works ( To Remove)	\$187.00	\$198.00	+ 6%

**Table 9: Schedule G - Mulching**

<b>Location</b>	<b>Current Price</b>	<b>New Price</b>	<b>Percentage + / -</b>
Depot	\$137.50	\$143.00	+ 4%
On Site	\$143.00	\$143.00	0

### **TENDER EVALUATION**

**Beaver Tree Services** have been Council's tree pruning and removals contractor for the past ten years. They have a good record of providing a safe and professional service and have the plant, equipment and staff resources required to cope with the demands of this contract.

The overall tender evaluation for all pruning works, tree removals, environmental works, stump removals, root grinding, emergency callouts, clean up works and mulching shows that the price from Beaver Tree Services is the most advantageous to Council

The detailed tender assessment summary will be tabled at the meeting as required.

### **CONCLUSION**

It is recommended that the tender be awarded to **Beaver Tree Services** as they have satisfied the selection criteria and are ranked number one in the tender evaluation.

The estimated annual expenditure on tree pruning and removals if Beaver Tree Services is chosen represents an overall increase of 1.1% on their current tender and is within the 2007/08 Parks maintenance budget allocation.

### **RECOMMEND**

**That with Tender No. 17/07 – Pruning and Removal of Trees, Council accepts the tender of Beaver Tree Services for the period 9 August 2007 to 9 August 2009 in accordance with their submitted tender and Council's contract documentation.**

MOVED Cr  
MOTION CARRIED/LOST

***CHAMPION DRIVE SUBDIVISION – RESTRICTED COVENANTS***

WARD Palomino  
FILE REF SUB/130480  
DATE 30 June 2007  
REF SA  
RESPONSIBLE MANAGER GD

**In Brief:**

- As part of the Champion Drive subdivision, there are a number of newly created lots that abut Lake Road. So as to ensure that crossovers are not constructed to Lake Road from these lots, restricted covenants are required to be placed on the respective titles, which require Council endorsement.
- **Recommend**  
That Council resolves to sign and seal the restricted covenant agreement between itself and Landcorp for Lots 100-175, 175-200, 8002-8003, 9001 that abut Lake Road and Champion Drive as part of the Champion Drive subdivision as shown on Landgate Deposited Plan 56130.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Physical Infrastructure and Caring for natural environment

Maintain and Improve physical infrastructure to meet the needs of the local community

**Legislation Implications**

General assessment of relevant legislation (eg Local Government Act) has not revealed any restrictions

**Council Policy/Local Law Implications**

General assessment has not revealed any applicable Policies/Local Laws.

**Budget/Financial Implications**

Nil.

**Consultation**

With the developer, Landcorp

**BACKGROUND**

Landcorp have received Western Australian Planning Commission (WAPC) approval to subdivide a large portion of land on the corner of Lake Road and Champion Drive in Champion Lakes i.e. known as the Champion Drive subdivision.

As Council may be aware, the physical infrastructure for this development is nearing completion and as such the Developer will soon be seeking the City's clearance of its WAPC conditions to enable titles for the newly created lots to be issued.

As with other developments that are adjacent to roads of similar function to Lake Road, a number of lots that abut this road will have restricted covenants on their titles, such that

access via crossovers are not permitted to this road. These subject lots have alternative road frontage to subdivisional roads of lesser traffic volumes.

In order for these restricted covenants to be applied to the subject lots, which is in affect an agreement between Landcorp i.e. the developer and the City of Armadale, a Council resolution is required endorsing the placement of the covenant on these titles.

The Chief Executive Officer and the Mayor are required to sign the agreement, which must also include the common seal.

### **RECOMMEND**

**That Council authorise the Mayor and Chief Executive Officer to sign and seal the restricted covenant agreement between Council and Landcorp for Lots 100-175, 175-200, 8002-8003, 9001 that abut Lake Road and Champion Drive as part of the Champion Drive subdivision as shown on Landgate Deposited Plan 56130.**

MOVED Cr  
MOTION CARRIED/LOST



***BROOKTON HIGHWAY, KELMSCOTT – ALTERNATE ACCESS SIGNS***

WARD River  
FILE REF RDB/50  
DATE 17 July 2007  
REF GE  
RESPONSIBLE MANAGER MTS

- **In Brief:**  
Access into Bromfield Drive is limited and ill defined and requires signage.
- **Recommend**  
Council concur with the MRWA proposal to erect two signs in Brookton Highway directing the two options for access to Bromfield Drive

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Nil.

**Legislation Implications**

General assessment of relevant legislation (eg Local Government Act) has not revealed any restrictions.

**Council Policy/Local Law Implications**

General assessment has not revealed any applicable Polices/Local Laws.

**Budget/Financial Implications**

Nil.

**Consultation**

MRWA

**BACKGROUND**

Council over recent times has received complaints that the access into Bromfield Drive and the surrounding areas is limited and ill defined (inadequate signage). This caused heavy vehicles to quite often use the steeper road causing excessive noise and disturbance to adjacent residences.

Correspondence was sent to Main Roads WA asking for signage to direct heavy vehicles. MRWA have indicated they are prepared to direct heavy vehicles via Bernard Street (the shortest and most direct route).

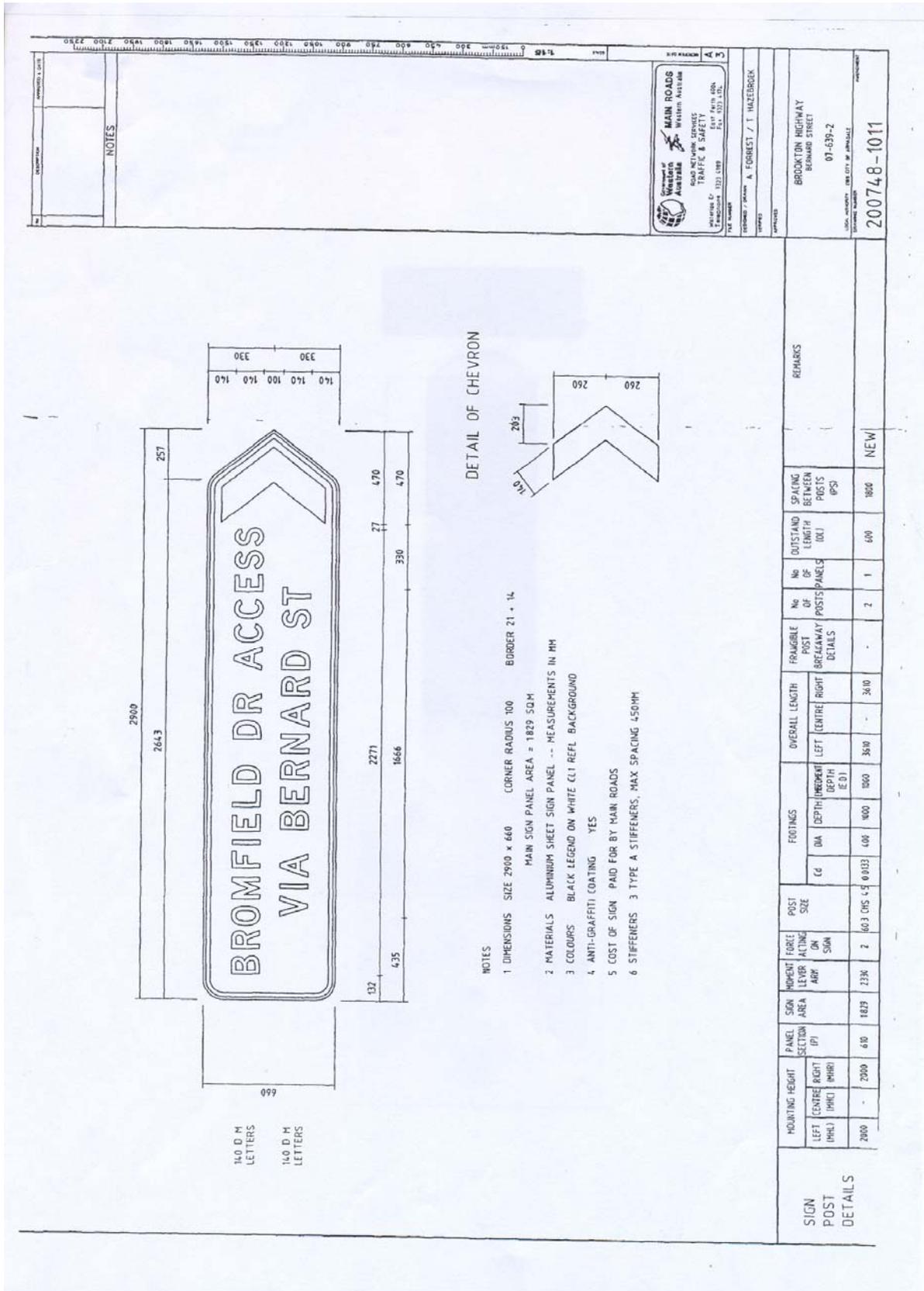
**COMMENT**

The two signs as shown on plans 200748-1011 and 1010 should assist motorists, particularly heavy vehicles, in selecting the best access. It is therefore suggested Council concur with the MRWA proposal.

**RECOMMEND**

**That Council concur with the MRWA proposal to erect two signs in Brookton Highway directing the two options for access to Bromfield Drive.**

MOVED Cr  
MOTION CARRIED/LOST



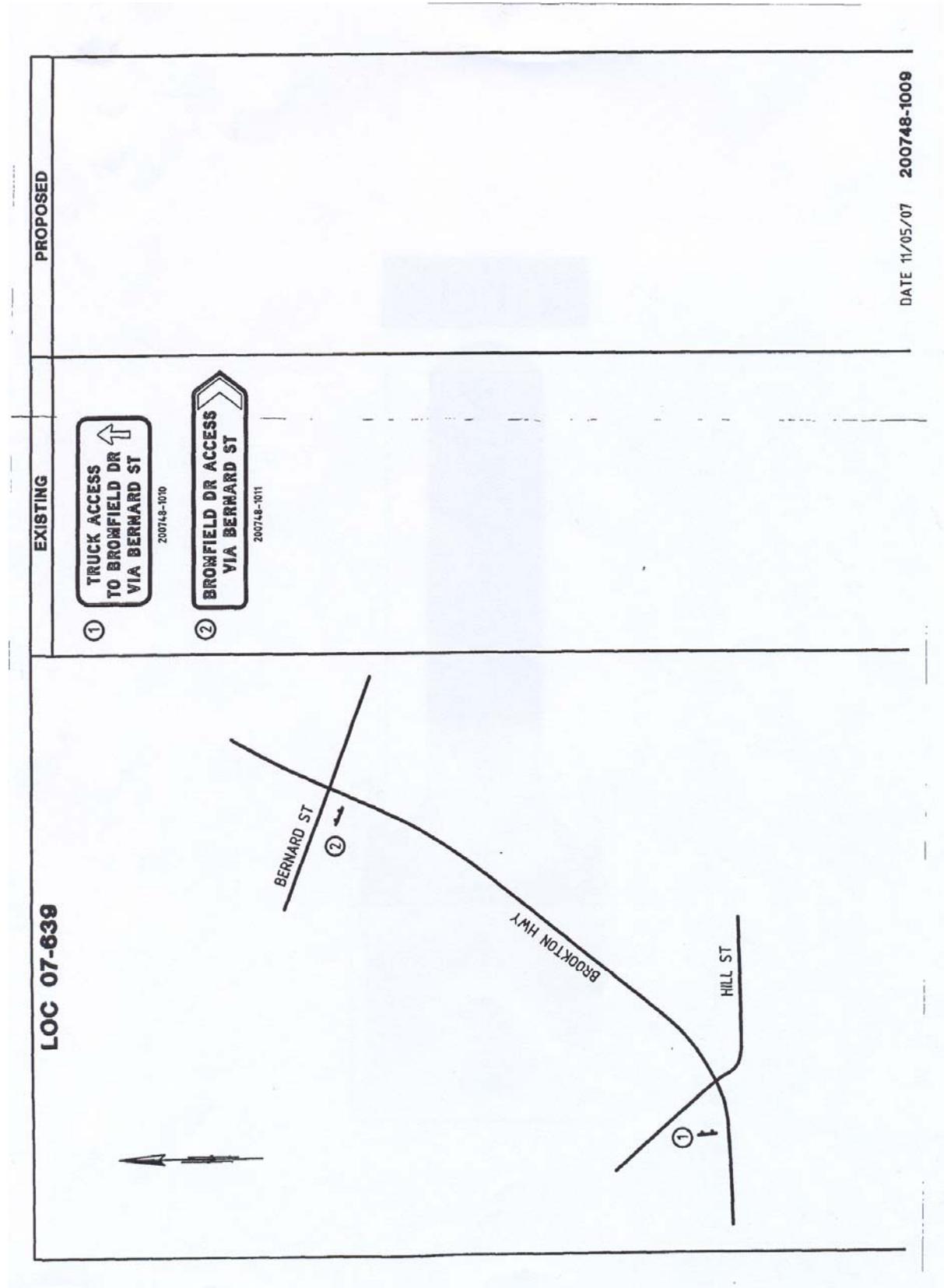
**MAIN ROADS**  
 Western Australia  
 ROAD NETWORK SERVICES  
 TRAFFIC & SAFETY  
 1323 1389  
 1323 1389  
 1323 1389

DESIGNED / DRAWN: A. FORREST / T. HAZEBROEK  
 CHECKED: [ ]  
 APPROVED: [ ]

BROOKTON HIGHWAY  
 BERNARD STREET  
 01-639-2  
 01-639-2  
 LOCAL AUTHORITY: (RMC) CITY OF GARDNER

200748-1011





***JOHN STREET – ROAD CLOSURE (AT INTERSECTION WITH WILLIAM STREET)***

WARD Minnowarra  
FILE REF RDJ/18  
DATE 11 July 2007  
REF JG  
RESPONSIBLE MANAGER EDTS

**In Brief:**

- The 35 day advertising period seeking comments on the proposed road closure has been completed and no responses has been received.
- **Recommend**  
That Council resolve to close John Street at the intersection with William Street, to vehicular traffic as shown on Plan No 06-12

**Tabled Items**

Plan 06-12 showing proposed closure location.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Physical Infrastructure

*Develop an integrated transport system, including road safety aspects.*

**Legislation Implications**

Assessment of legislation indicates that the following regulations apply:  
Section 3.50 (1a) and (4a) of the Local Government Act 1995

**Council Policy/Local Law Implications**

General assessment has not revealed applicable Policies/Local Laws..

**Budget/Financial Implications**

Works funded through the L.A.T.M. budget 2007/08.

**Consultation**

Main Roads WA, Dept of Planning and Infrastructure, Dales Cottages, Transperth, St John Ambulance, Water Corporation, Telstra, Alinta Gas, Western Power and public advertising of the proposal..

**BACKGROUND**

At its Ordinary Meeting of 3<sup>rd</sup> July 2006, Council resolved (TS6/06/06) as follows:

2. *That Council consult with residents and service providers in John St to determine means of addressing pedestrian and vehicular interaction especially at the junction of John St and William St, and John St and Church St.*

**COMMENT**

Following Council's resolution a survey was carried out including all residents, Dale Cottage Administration and all service providers.

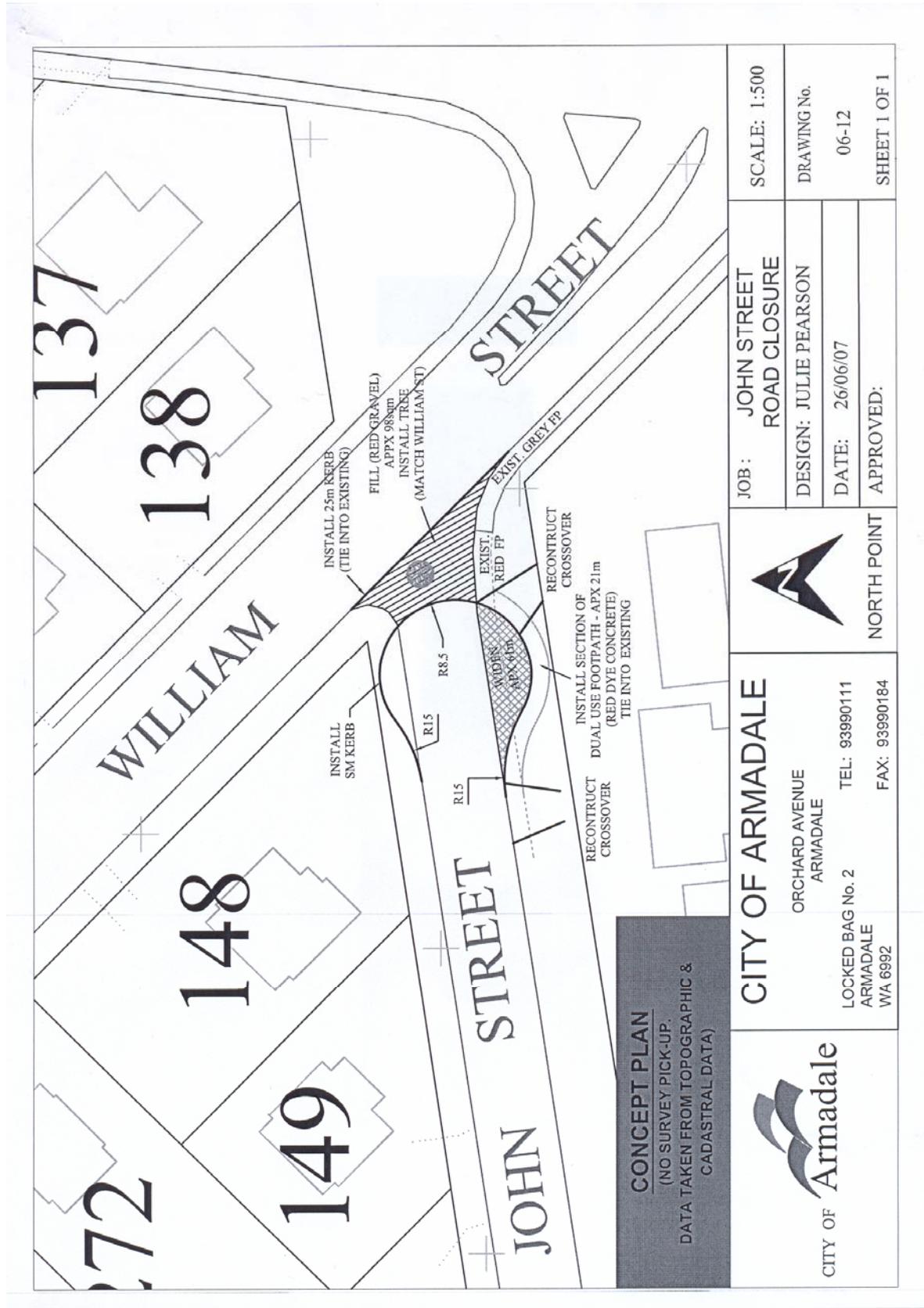
A map of the proposed closure (cul de sac) was provided together with a "return paid" questionnaire. Fourteen residents supported Council's proposal and no objections were received from all service providers.

A further thirty five (35) day advertising period was completed on 28<sup>th</sup> May 2007. There have been no responses to the advertising. As there have been no relevant alternative submissions received to the proposal it is suggested that Council formerly resolve to close John Street at the junction with William Street to vehicular traffic.

**RECOMMEND**

**That Council close John Street, Armadale at the intersection with William Street, Armadale to vehicular traffic as shown Plan No 06-12.**

MOVED Cr  
MOTION CARRIED/LOST



**CONCEPT PLAN**  
 (NO SURVEY PICK-UP.  
 DATA TAKEN FROM TOPOGRAPHIC &  
 CADASTRAL DATA)

**CITY OF ARMADALE**  
 ORCHARD AVENUE  
 ARMADALE  
 LOCKED BAG No. 2  
 ARMADALE  
 WA 6992  
 TEL: 93990111  
 FAX: 93990184



**JOB:** JOHN STREET  
 ROAD CLOSURE  
**DESIGN:** JULIE PEARSON  
**DATE:** 26/06/07  
**APPROVED:**

**SCALE:** 1:500  
**DRAWING No.**  
 06-12  
**SHEET 1 OF 1**



***KEMBLA STREET, KELMSCOTT- PETITION FOR A PROPOSED FOOTPATH RELOCATION***

WARD River  
FILE REF: RDK/  
DATE 12 June 2007  
REF KP  
RESPONSIBLE MANAGER MED

**In Brief:**

- The City has received a petition from residents of Kembla Street, Kelmscott requesting a proposed footpath along Kembla Street to be relocated to the southern side.
- **Recommend**  
That Council approve the changes in location for the proposed footpath in Kembla Street from the northern to the southern side as scheduled for construction in the 2010/11 financial year as shown on plan 07-58.

**Tabled Items**

Petition

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Physical Infrastructure

*Develop an integrated transport system including safety aspects.*

**Legislation Implications**

Full assessment of relevant legislation indicates no restriction.

**Council Policy/Local Law Implications**

Full assessment of all Policies/Local Laws indicates that none are applicable.

**Budget/Financial Implications**

The estimated cost for the construction of the Kembla Street footpath is \$26,600. The cost will be accommodated in the pathway programme.

**Consultation**

Intra Directorate

**BACKGROUND**

The City has received a petition from the residents of Kembla Street, Kelmscott requesting Council to review its proposal and change the location of a proposed footpath from the northern to the southern side of Kembla Street. The pathway in question has been scheduled in the City's pathway programme for the 2010/11 financial year.

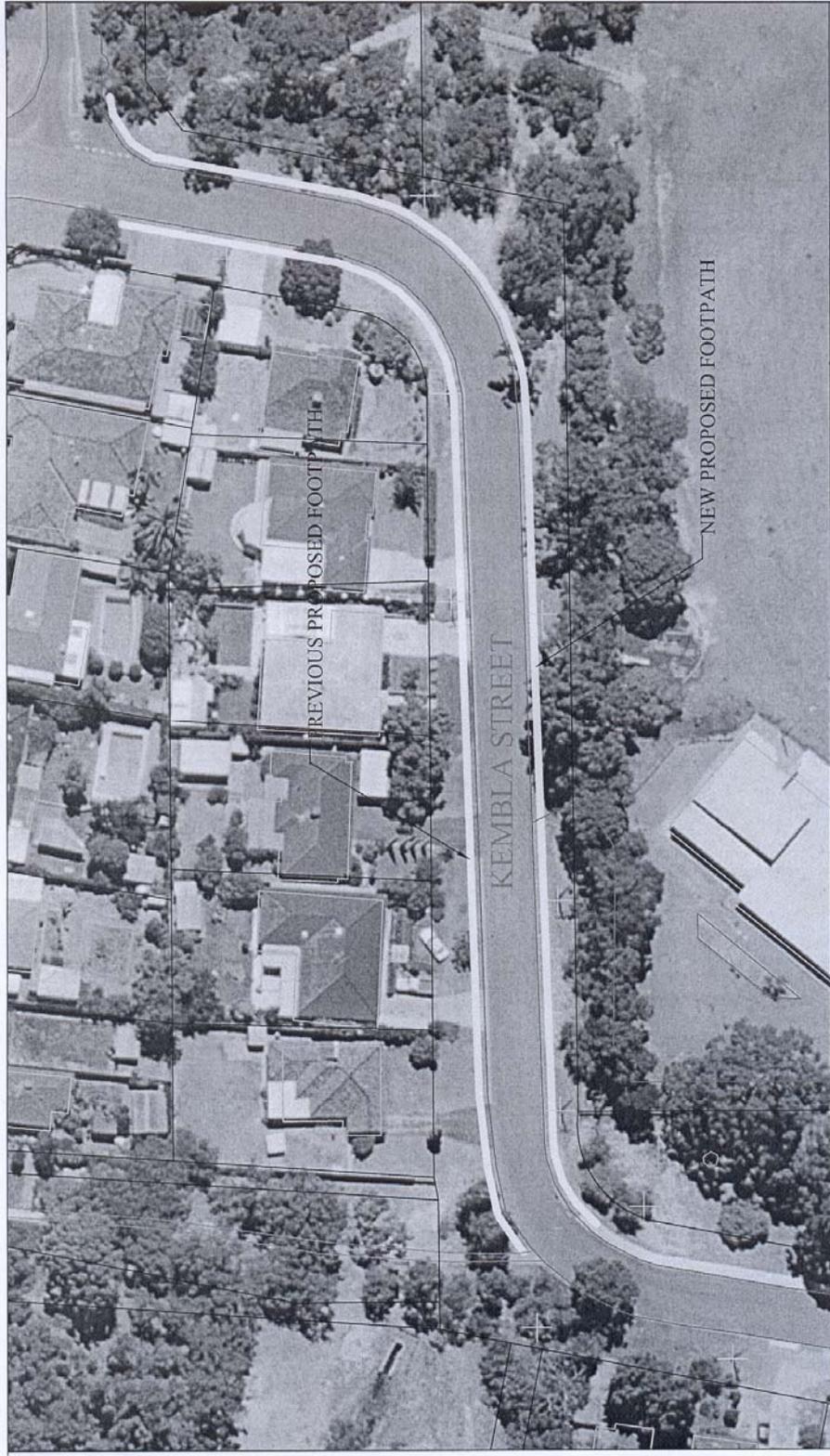
**CONCLUSION**

As there is no restriction to relocate the proposed footpath along the southern side of Kembla Street, the request of the residents can be agreed to.

**RECOMMEND**

- 1. That Council approve the changes in location for the proposed footpath in Kembla Street from the northern to the southern side as scheduled for construction in the 2010/11 financial year as shown on plan 07-58.**
  
- 2. That the petitioners be advised of Council's decision to relocate the proposed footpath in Kembla Street from the northern to the southern side.**

MOVED Cr  
MOTION CARRIED/LOST



 CITY OF Armadale	LEGEND:	CITY OF ARMADALE ORCHARD AVENUE ARMADALE LOCKED BAG No. 2 ARMADALE WA 6952 TEL: 93990111 FAX: 93990184	 NORTH POINT
	JOB: KEMBLA STREET FOOTPATH ALIGNMENT		

***LOTS 12, 14 & 16 ARNOTT CT & 104 WESTFIELD RD, MULTI UNIT DEVELOPMENT SITES – DEED OF AGREEMENT***

WARD River  
FILE REF Various  
DATE 30 June 2007  
REF SA  
RESPONSIBLE MANAGER MTS

**In Brief:**

- The Developer of these four lots has requested that Council agree to enter into a Deed of Agreement, such that Titles can be gained for the lots prior to completing the required works.
- **Recommend**  
That Council resolve to execute the Deed of Agreement for the properties at 12, 14 & 16 Arnott Court and 104 Westfield Road.

**Tabled Items**

Plan attached

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Developing our City

**Legislation Implications**

Nil.

**Council Policy/Local Law Implications**

19.1 – COA Standing orders, Local Government Act 1995

**Budget/Financial Implications**

Nil.

**Consultation**

The Developer and Council's solicitor, Williams Handcock

**BACKGROUND**

These four properties have been granted conditional Western Australian Planning Commission approval to create unit developments on each lot. Whilst there are a number of conditions that the City has requested as part of the approval, there are two that relate specifically to the Technical Services Directorate, which are typical conditions placed upon similar developments. These relate to the requirement to provide for a stormwater drainage connection to the property and to construct and drain the internal driveway, crossover and parking areas to Council's satisfaction.

**COMMENT**

It is common practice for developers to obtain early clearance of these conditions, such that they can obtain their titles, prior to the works being undertaken, by providing a monetary bond to the City, which typically amounts to the estimated cost of the works, plus a 50% contingency factor. Upon the works being completed to the City's satisfaction, this bond is then returned in full to the developer.

In the case of these properties however, the developer has requested that Council accept a deed of agreement, such that a covenant is created on the respective titles preventing sale until these works are completed.

The Technical Services Directorate have in turn accepted this request as an alternative to providing a bond, provided the “Deed of Mutual Agreement” is produced by a legal firm that is currently listed as one of its preferred contractors i.e. in this case Williams Handcock.

The deed has subsequently been completed and signed by the Developer and is now required to be executed by Council, which includes a signature from the Chief Executive Officer, the Mayor and the common seal.

A plan is attached that illustrates the subject properties along Arnott Court.

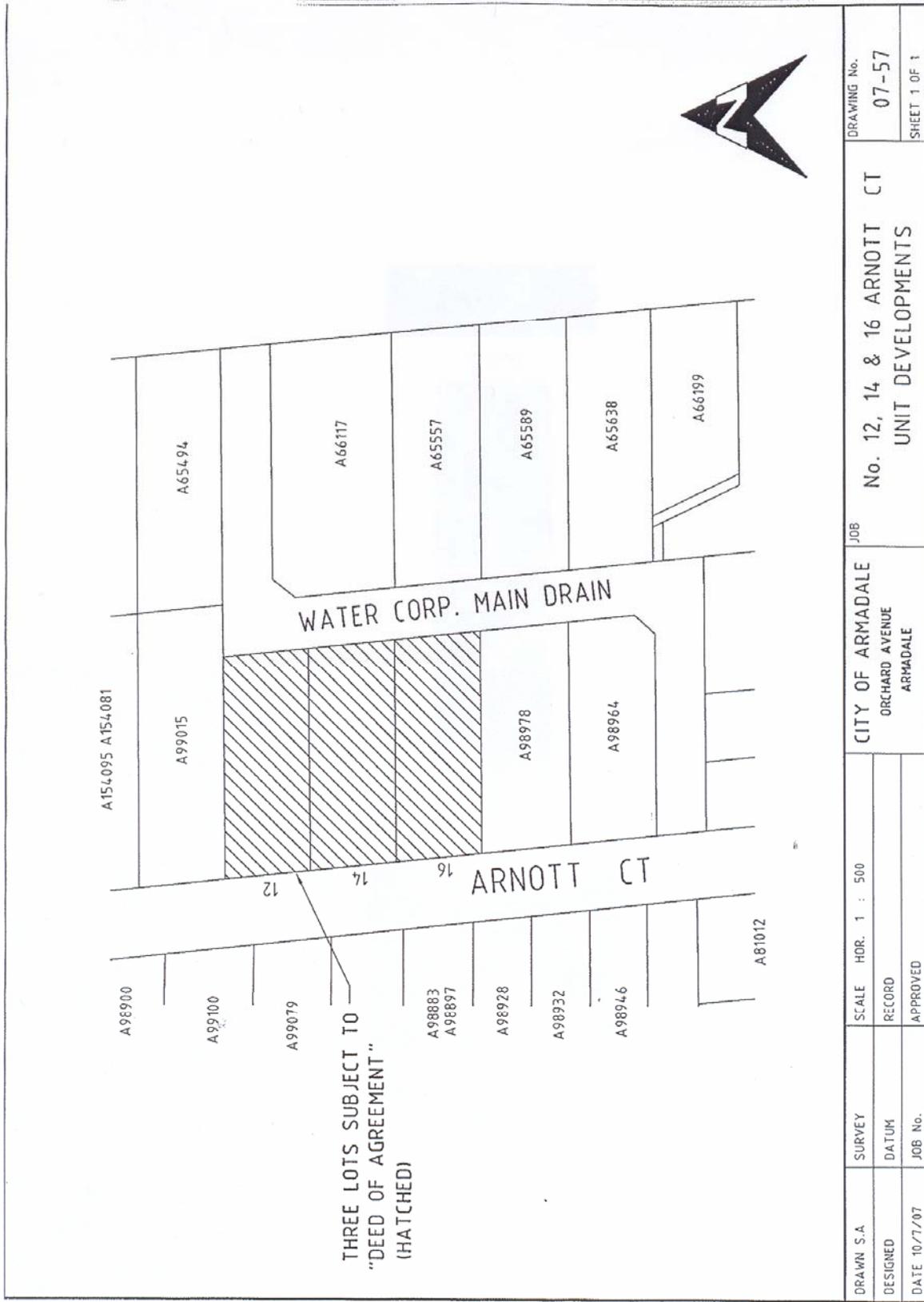
### **CONCLUSION**

In order for the CEO and the Mayor to execute the deed, a formal Council resolution agreeing to the deed is required. As a result of this, it is recommended that Council resolve to execute the Deed of Agreement for the properties at 12, 14 & 16 Arnott Court and 104 Westfield Road.

### **RECOMMEND**

**That Council execute the Deed of Agreement for the properties at 12, 14 & 16 Arnott Court and 104 Westfield Road.**

MOVED Cr  
MOTION CARRIED/LOST



***STREET AND VERGE PARKING SIGNS***

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A petition signed by 29 residents was tabled by Cr Zelones, the prayer of which reads as follows:-

*We the undersigned residents of Heritage Lane Villas are writing to you regarding the very dangerous situation that exists out the front of our villas due to cars parking on the street and verges at the high school during drop off and finishing times, the 2.40pm finishing time being the worst time.*

*We believe the signs are an urgent matter and that action must be taken immediately before someone is seriously injured or killed.”*

Council resolved:

That the petition be received and be referred to Technical Services Committee.

This matter will be tabled for the next Technical Services Committee Meeting to be held in August 2007.

***FORRESTDALE TOWN CENTRE – DEEP SEWERAGE***

---

At the Council meeting held on 2 July 2007, Cr Cominelli referred the following matter to the Technical Services Committee.

*That the matter of deep sewerage for the Forrestdale Town Centre site and its progress with the Water Authority be referred to the Technical Services Committee.*

**RECOMMEND**

---

***APPOINTMENT OF COMMUNITY MEMBERS TO ADVISORY AND MANAGEMENT COMMITTEES***

---

At the Council meeting held on 2 July 2007, Cr Tizard referred the following matter to the Technical Services Committee.

*That the matter of appointment of community members to Advisory and Management Committees be referred to both the Technical and Community Services Committees.*

The following comment has been provided by Cr Tizard for consideration:-

Under the Local Government Act, all Council Committees are to have its members appointed by the Local Government. Membership of these committees generally continues until the next ordinary Election Day.

In the past, it has been the practice to close down the committees at Election Day and then appoint members to the committees after the election. The process involved the advertising the vacant positions in the press (and other means) after the election. A selection process is undertaken and the members are appointed at the next available Council meeting.

The process can (and has) taken up to two months to complete for a range of reasons. This has meant that the committees have not existed for two months because of the absence of any appointed members and no action can be legally undertaken by these committees. Difficulties are created for all committees, especially Management Committees that have ongoing commitments to implement their respective Management Plans.

My suggestion is that advertising of the availability of committee positions start well before the October election, say August. This then allows for a generous advertising period eg four weeks and for the applications to be examined by the relevant committees and recommendations forwarded to Council prior to the election. At the first Council meeting after the election, appointments to committees can be made immediately.

The advantage of the suggested process is that committees can be selected and appointed without any interruption to the business of the committee. New members are eligible for appointment and the service provided by committees continues unabated.

Suggested recommendation: **“That Officers undertake early advertising of community based committee positions to enable committee appointments to be approved by Council as soon as possible after Election Day”**

**RECOMMEND**

***THE STATE WATER DESALINATION PLAN***

---

At the Council meeting held on 2 July 2007, Cr Zelones referred the following matter to the Technical Services Committee.

*That the matter of the route of the City of Armadale section of the main pipeline associated with the State's Water Desalination Plant be referred to the Technical Services Committee.*

Water Corporation are still undertaking preliminary design and route selection for the major water mains between the Forrestdale Pumping Station and the Wungong and Corfield Street valve chambers. When this is completed Water Corporation has been asked to make a presentation to Council. This is expected to be between October and December 2007. The timing of the project is still flexible but is expected to stretch. However, the redevelopment of Green Street will require laying of pipe in this vicinity prior to construction.

**RECOMMEND**

**That a presentation of the routes and work processes associated with the Wungong Transfer Mains be made to Council when preliminary design is completed.**

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***GWYNNE PARK - TINY TOTS PLAY AREA - PCYC***

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At the Council meeting held on 2 July 2007, Cr Munn referred the following matter to the Technical Services Committee.

*That the matter of flooding of the Tiny Tots play area and the foyer of the PCYC be referred to the Technical Services Committee.*

The following comment has been provided by Cr Munn for consideration:-

*When I attended the Australian Masters Championships, I was taken to see the play area outside the Crèche. It was all under 150 mm of water, with no drainage in sight. Apparently, this has been reported to Council on a number of occasions. In addition, even though the weather was extreme, the water was being driven under the doors into the foyer.*

*It was a bit embarrassing when there were representatives from all over Australia there.*

Following an inspection of Gwynne Park including the Armadale Arena, it is apparent that there are substantial drainage issues with the site. There is approximately 5ha of impervious area in Gwynne Park with a substantial slope across the Park from Seventh Road to Townley Street. Floor level at Armadale Arena is at close to natural surface and internal and external drainage is limited.

Consequently the Manager Property Services has been requested to undertake a site wide drainage study as well as establishing estimates for additional shelter for the crèche and other areas

The work recommendations arising from these assessments are expected to be of a scale which will require consideration in future budgets rather than minor works which can be accommodated in the current year.

**RECOMMEND**

**That a report on upgrading drainage works in Gwynne Park be presented for consideration in the 2008/09 and beyond budgets, when investigations are complete.**

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**ARALUEN BOTANIC PARK – IT'S SPRINGTIME AT ARALUEN FESTIVAL  
(TULIPS) 2007**

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WARD JARRAH  
FILE REF: EVT/1  
DATE 22 JUNE 2007  
REF CB  
RESPONSIBLE EDTS  
MANAGER

**In Brief:**

- Advice has been received from the Araluen Botanic Park seeking Council's support to again implement a traffic management strategy during peak times for the forthcoming "It's Springtime at Araluen" festival being Sunday August 19 and 26, Sunday September 2, 9, 16 and 23 and Monday October 1 (Public Holiday)
- That Council support the application from Araluen Botanic Park for a one-way system to be implemented on Croyden Road between Redtail Lane and the McNess Drive intersection in line with the Commissioner of Main Road's Instrument of Authorisation.
- **Recommend**  
That the modified traffic arrangements be carried out as per the conditions outlined in the Instrument of Agreement as issued by the Commissioner of Main Roads WA pursuant to Regulation 297 (2) of the Road Traffic Code 2000.

**Tabled Items**

Araluen Botanic Park – Traffic Management Plan

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Nil.

**Legislation Implications**

Assessment of legislation indicates that the following regulations apply: -

*Section 3.50 of the Local Government Act 1995*

*(1) A local government may, by local public notice, order that a thoroughfare that it manages is wholly or partially closed for the passage of vehicles.*

**Council Policy/Local Law Implications**

Assessment of Policy / Local Law indicated that the following are applicable:

*Council Policy ENG 3 – Road Closures for Events*

**Budget/Financial Implications**

Nil.

**Consultation**

Nil.

## **BACKGROUND**

Advice has been received from the Araluen Botanic Park seeking Council's support to implement a traffic management strategy during peak times for the forthcoming "*It's Springtime at Araluen*" festival.

The peak days that are sought for the traffic management strategy to be implemented are:

Sunday August 19 and 26;  
Sunday September 2, 9, 16, 23 and 30 and  
Monday October 1

As with previous practice, the Araluen Botanic Park will engage a professional traffic management contractor (Ash Project Management Pty Ltd) to implement and manage the traffic management strategy in order to meet regulatory requirements.

## **COMMENT**

### Option 1

As stated in previous reports Council can not support the request and let events take care of themselves; however it could be seen that Council has neglected its duty of care and would be deemed irresponsible given its knowledge of visitors attending these events and the traffic chaos that can be generated due to both motorists' and community frustrations.

### Option 2

Council could continue to support the request to implement a traffic management strategy to minimise disruption along Croyden Road and the local community.

As Option 2 is considered the only option available at this time therefore the proposal to implement a one-way system on Croyden Road between Redtail Lane and the McNess Drive intersection allowing access to the Park via Gardiner Road including parking of vehicles within the one-way system which has provision for approximately 200 vehicles is supported.

Should Council agree to Option 2, then the Araluen Botanic Parks request to implement a traffic management strategy on Sunday August 19 and 26, Sunday September 2, 9, 16, 23, 30 and Monday October 1 (Public Holiday) be supported subject to following conditions:

1. That the modified traffic arrangements be carried out as per the conditions outlined in the Instrument of Authorisation as issued by the Commissioner of Main Roads pursuant to Regulation 297 (2) of the Road Traffic Code 2000.
2. The implementation and management of the traffic management plan be under the control of a professional traffic management contractor.
3. As part of the traffic management strategy, traffic movement on Croyden Road to be restricted to a one-way system between Redtail Lane and McNess Drive intersection allowing access to the Park via Gardiner Road.
4. Parking of vehicles is permitted within the one-way system but only on one side of Croyden Road.
5. The Araluen Botanic Park advises all relevant emergency service authorities and surrounding landowners of the proposed traffic management strategy.

6. The Araluen Botanic Park makes suitable arrangements to allow local residents use of the Araluen Bridge up to 9.30am on each day the traffic management strategy is implemented.
- 7 The Araluen Botanic Park (Inc) undertakes a heavy media promotional advertising exercise promoting access to the Park via Gardiner Road.

## **SUMMARY**

That Council support the application from Araluen Botanic Park for a one-way system to be implemented on Croyden Road between Redtail Lane and the McNess Drive intersection including the parking of vehicles within the one-way system.

The traffic management strategy shall be under the control of a professional traffic management contractor and in accordance with a traffic management plan that is supported by Technical Services Officers.

Access to the Brenton Rose Farm is not to be restricted from either direction on Croyden Road with approved traffic controllers directing motorists from the McNess Drive intersection as required and in accordance with previous arrangements.

The traffic management plan is to be implemented under the Instrument of Authorisation as issued by the Commissioner of Main Roads pursuant to Regulation 297 (2) of the Road Traffic Code 2000

Monitoring of the traffic management system will be carried by Technical Services Officers who will meet weekly with the Araluen Botanic Park to resolve any issues that may arise.

## **RECOMMEND**

- 1. That the Araluen Botanic Park's request to implement a traffic management strategy on Sunday August 19 and 26, Sunday September 2, 9, 16, 23 and 30 and Monday October 1 (Public Holiday) be supported subject to the following conditions.**
  - a. The modified traffic arrangements be carried out as per the conditions outlined in the Instrument of Authorisation as issued by the Commissioner of Main Roads pursuant to Regulation 297 (2) of the Road Traffic Code 2000.**
  - b. The implementation and management of the traffic management strategy be under the control of a professional traffic management contractor.**
  - c. As part of the traffic management plan, traffic movement on Croyden Road be restricted to a one-way system between Redtail Lane and McNess Drive intersection allowing access to the Park via Gardiner Road only.**
  - d. Parking of vehicles is permitted within the one-way system but only on the south side of Croyden Road**

- e. **The Araluen Botanic Park advises all relevant emergency service authorities and surrounding landowners of the proposed traffic management strategy.**
- f. **The Araluen Botanic Park ensures suitable arrangements to allow local residents use of the Araluen Bridge up to 9.30am on each day the traffic management strategy is implemented.**
- g. **The Araluen Botanic Park (Inc) undertakes a heavy media promotional advertising exercise promoting access to the Park via Gardiner Road.**
- h. **Access to the Brenton Rose Farm is not to be restricted from either direction on Croyden Road.**

MOVED Cr  
MOTION CARRIED

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***ANNUAL LEAVE – EXECUTIVE DIRECTOR TECHNICAL SERVICES***

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WARD All  
FILE REF PSF/641  
DATE 4<sup>th</sup> July 2007  
REF LEK  
RESPONSIBLE EDTS  
MANAGER

**In Brief:**

- Advice of proposed annual leave from 2<sup>nd</sup> October 2007 to 12<sup>th</sup> October 2007 for the Executive Director Technical Services.
- **Recommend**
  1. That Council note the Executive Director Technical Services' absence of leave from 2<sup>nd</sup> October 2007, returning to work on Monday 15<sup>th</sup> October 2007.
  2. That the Manager Technical Services be appointed Acting Executive Director Technical Services for the period 2<sup>nd</sup> October 2007 to 12<sup>th</sup> October 2007 inclusive.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Nil.

**Legislation Implications**

General assessment of relevant legislation (eg Local Government Act) has not revealed any restrictions.

**Council Policy/Local Law Implications**

Assessment of Policy/Local Law indicates that the following are applicable:

*ADM12 – Acting “Senior” Positions*

**Budget/Financial Implications**

Nil.

**Consultation**

Chief Executive Officer  
MANEX

**COMMENT**

The Executive Director Technical Services is advising that he has made arrangements to take leave effective from Tuesday 2<sup>nd</sup> October 2007 to Friday 12<sup>th</sup> October 2007 inclusive, returning to work on Monday 15<sup>th</sup> October 2007.

It is recommended that the Manager Technical Services be appointed Acting Executive Director Technical Services for the period Tuesday 2<sup>nd</sup> October 2007 to Monday 15<sup>th</sup> October 2007 inclusive.

**RECOMMEND**

- 1. That Council note the Executive Director Technical Services' absence of leave from 2<sup>nd</sup> October 2007, returning to work on Monday 15<sup>th</sup> October 2007.**
- 2. That the Manager Technical Services be appointed Acting Executive Director Technical Services for the period 2<sup>nd</sup> October 2007 to 15<sup>th</sup> October 2007 inclusive.**

MOVED Cr  
MOTION CARRIED/LOST

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***AUGUST TECHNICAL SERVICES COMMITTEE – CHANGE OF DATE***

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WARD	All
FILE REF	ENG/1
DATE	22 July 2003
REF	LP
RESPONSIBLE MANAGER	EDTS

**In Brief:**

- Due to the unavailability of two Councillors, the Executive Director Technical Services and the Manager Technical Services, who are attending the National IPWEA Conference in Cairns, it is proposed to move the meeting to Tuesday, 21<sup>st</sup> August 2007 at 7.00pm
- **Recommend**  
That the Technical Services Committee be moved from Monday 27<sup>th</sup> August 2007 to Tuesday, 21<sup>st</sup> August 2007 at 7.00pm.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Communication

*Create stronger communication links with Government and other groups.*

**Legislation Implications**

General assessment of relevant legislation (eg Local Government Act) has not revealed any restrictions.

**Council Policy/Local Law Implications**

General assessment has not revealed any applicable Policies/Local Laws.

**Budget/Financial Implications**

Nil.

**Consultation**

Committee Members

**EXECUTIVE DIRECTOR TECHNICAL SERVICES REPORTS**

The next Technical Services Committee meeting has been set for Monday, 27<sup>th</sup> August 2007. Due to the unavailability of two Councillors, the Executive Director Technical Services and the Manager Technical Services, who are attending the National IPWEA Conference in Cairns, it is proposed to move the meeting to Tuesday 21<sup>st</sup> August 2007 at 7.00pm and the Technical Services Committee minutes being considered at the Ordinary Meeting of Council on 3rd September 2007.

**RECOMMEND**

**That Council change the August 2007 Technical Services Committee Meeting date from Monday, 27 August 2007 to Tuesday, 21 August 2007.**

MOVED Cr  
MOTION CARRIED/LOST

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**CONSIDERATION OF TECHNICAL SERVICES BUDGET 2007/2008**

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WARD All  
FILE REF FIN/7  
DATE 13<sup>th</sup> July 2007  
REF AB  
RESPONSIBLE EDTS  
MANAGER

**In Brief:-**

- That the 2007/08 Draft Budget for Technical Services Directorate, as presented to and amended by Committee, be referred to the City Strategy Committee for consideration.
- **Resolved**
  1. That the Technical Services Directorate Draft 2007/08 Budget as set out in *Attachment "A4" of the Agenda (see Summary of Attachments – Green Page)* be referred to the Special City Strategy Committee Meeting on 30<sup>th</sup> July 2007 for consideration and inclusion in the 2007/08 Draft Annual Council Budget.
  2. That the Special City Strategy Committee meeting of 30<sup>th</sup> July 2007 consider the inclusion of a further \$60,000 for graffiti removal if additional funding is available as a result of a better than forecast end of year position.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Improve the overall financial viability of Council, by:

- 4.1 Implementing financial strategies, including investment, rating and infrastructure funding.
- 4.2 Developing processes to measure and allocate costs of Council services.
- 4.3 Developing improved financial management reports.

**Legislation Implications**

General assessment of relevant legislation (e.g. Local Government Act) has not revealed any restrictions.

**Council Policy / Local Law Implications**

General assessment has not revealed any applicable policies/local laws.

**Budget / Financial Implications**

2007-08 Draft Budget and Forward Financial Plan.

**Consultation**

This report follows on from the work undertaken at previous MANEX meetings and prior Councillor Workshops relating to the City's Strategic and 15 Year Financial Plans.

**DETAILS OF PROPOSAL AND COMMENT**

Table 1 sets out the components of the City's Strategic Draft Technical Services Directorate Budget approved by the City Strategy Committee for advertising in Resolution CS63/7/07.

The Draft Works Programme of 2007/08 is matched to the draft budget allocations and is set out in detail in the following Report on the Draft Five Year Works Programme 2007/08 – 2011/12. The Draft 5 year Works Programme is also matched to the first five years of the 15 Year Financial Plan.

Any additions to the Draft Works Programme 2007/08 will upset the balance of the City's Draft Budget and the Financial Plan. Variations should not be made to the Draft Budget. The works contained in the Draft Works Programme are established on priorities within the Five Year Works Programme, therefore the Draft Budget should be referred to the Special City Strategy meeting as it stands with any further additions for consideration if further funds are to be available as a result of a more favourable than forecast end of year position.

Council Resolution TS 51/05/07 referred to sufficient funding to remove graffiti within 24 hours be considered in preparing the 2007/08 Budget. In the course of the 15 Years Finance Plan discussions a sum of \$40,000 was allocated to graffiti removal. The current practice is for removal of offensive graffiti in 24 hours of notification and a target of 48 hours of notification of other graffiti. Based on current removal levels an annual allocation of \$100,000 is the more likely forecast level of expenditure. The current level of graffiti activity is greater than in the past and may reduce again in the future. It will be recommended that a further \$60,000 be considered for graffiti removal if additional funding is available as a result of a better than forecast end of year position. As this is a recurrent expense the effect on the Draft 15 year Financial Plan will require consideration in Future Plans on a rolling period of 3-5 years.

#### **RESOLVED**

- 1. That the Technical Services Directorate Draft 2007/08 Budget as set out in Attachment "A-4" of the Agenda (see Summary of Attachments – Green Page) be referred to the Special City Strategy Committee Meeting on 30<sup>th</sup> July 2007 for consideration and inclusion in the 2007/08 Draft Annual Council Budget.**
- 2. That the Special City Strategy Committee meeting of 30<sup>th</sup> July 2007 consider the inclusion of a further \$60,000 for graffiti removal if additional funding is available as a result of a better than forecast end of year position.**

MOVED Cr  
MOTION CARRIED/LOST



***TECHNICAL SERVICES DIRECTORATE DRAFT FIVE YEAR WORKS PROGRAMME 2007/08 – 2011/12***

WARD ALL  
  
DATE 16<sup>th</sup> July 2007  
REF AB  
RESPONSIBLE EDTS  
MANAGER

**In Brief:**

- The Technical Services Directorate Five Year Works Programme has been developed to deliver the financial allocations contained in Council's Draft Fifteen Year Finance Plan for those years.
- The Works Programme for 2007/08 delivers the financial allocations of Council's Draft Annual Budget for 2007/08.
- **Recommend**  
That Council
  - a. Adopt the first year of the Draft Five Year Works Programme as the Works Programme to deliver Council's Draft Annual Budget 2007/08 and as the Capital Works Programme for that Budget.
  - b. Receive the Technical Services Draft Five Year Works Programme for 2007/08-2011/2012 in line with Council's Draft Five Year Financial Plan and recommit the Programme to the August 2007 Technical Services Committee meeting.

**Tabled Items**

Nil.

**Officer Interest Declaration**

Nil.

**Strategic Implications**

Improve the overall financial viability of Council, by:

- 4.4 Implementing financial strategies, including investment, rating and infrastructure funding.
- 4.5 Developing processes to measure and allocate costs of Council services.
- 4.6 Developing improved financial management reports.

**Legislation Implications**

General assessment of relevant legislation (e.g. Local Government Act) has not revealed any restrictions.

**Council Policy/Local Law Implications**

General assessment has not revealed any applicable policies/local laws.

**Budget/Financial Implications**

2007-08 Draft Budget and Forward Financial Plan

**Consultation**

Nil.

**BACKGROUND**

The City has been planning and delivering its long-term Asset Management requirements and new projects through the Technical Services Directorate's 5 Year Draft Works Programme since 2000. The Programme is always in Draft form as project timings and priorities are

flexible. When the City commenced increasing its financial planning timeframe through the 5 Year and 15 Year Financial Plan in 2001, the 5 year Draft Works Programme was aligned to these plans to ensure consistency. The logical sequence as a consequence is for the 5 Year Draft Works Programme to follow the adoption of the 15 Year Draft Financial Plan and for the first year of each to be the budget for that year. The Financial Plans are reviewed yearly and then the Works Programme has another year added as well as reviewing the priorities, timing and project estimates being reviewed.

#### **COMMENT**

The Council Budget requires a Capital Works Programme and the Draft Five Year Works Programme capital programme provides this document. It will be recommended that the capital works contained in the Works Programme are the Council Budget capital works.

As the Draft Five Year Works Programme refer *Attachment “A-4” of the Agenda (see Summary of Attachments – Green Page)* has only now become available for perusal and comment by Councillors, it is appropriate for the Programme to be recommitted to the August Technical Services Committee meeting for adoption. If comment about the Programme can be received prior to August 10<sup>th</sup>, 2007, they will be incorporated in the report to that meeting.

The detailed report on the 2007/08 year of the Draft Five Year Works Programme by Department follows:

#### **RECOMMEND**

##### **That Council**

- a. Adopt the first year of the Draft Five Year Works Programme as the Works Programme to deliver Council’s Draft Annual Budget 2007/08 and as the Capital Works Programme for that Budget.**
- b. Receive the Technical Services Draft Five Year Works Programme for 2007/08-2011/2012 in line with Council’s Draft Five Year Financial Plan and recommit the Programme to the August 2007 Technical Services Committee meeting.**

MOVED Cr  
MOTION CARRIED/LOST

***LATE ITEMS***

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***COUNCILLORS' ITEMS***

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**MEETING CLOSED \_\_\_\_\_PM.**

**TECHNICAL SERVICES COMMITTEE**

**SUMMARY OF “A” ATTACHMENTS**

**23 JULY 2007**

<b>Attachment No.</b>	<b>Subject</b>	<b>Page</b>
A-1	Proposed Council Policy ENG 9 – Dieback Management	58
A-2	Analysis of the implementation of clauses of the revised ENG 9 – Management Practice	63
A3	Original Council Policy ENG 9 – Dieback Management	69
A4	Technical Services Directorate Draft 2007/08 Budget and Draft Five Year Works Programme 2007/08-2011/12	70

## **POLICY**

### **Eng 9 Dieback Management**

#### **Procedure**

Eng 9 Dieback Management

#### **Relevant Delegation**

N/A

#### **Rationale**

The City's vision is for a place combining city living with a beautiful bushland setting, with the associated aim of enhancing the qualities and benefits of our natural and built environment.

Dieback is known to be a significant threat to bushland in the City of Armadale. Dieback affects not only Jarrah trees but an array of native vegetation, ecosystems and their dependent fauna and flora assemblages.

The threat of dieback is cross tenure, both in bushland found in City of Armadale reserves, Crown lands and private property. Dieback is also a threat to a number of industries such as the avocado and cut wildflower industries.

The dieback pathogen *Phytophthora cinnamomi* is spread by soil and water movement. Any activities which involve the spread of soil have the potential to spread dieback.

Whilst the symptoms of dieback are treatable with the fungicide Phosphite, there is no cure.

#### **Policy**

Council seeks to protect native vegetation within the Local Government area by minimising the risk of introducing and spreading the pathogen in accordance with current Management Practices.

<b>Related Local Law</b>	N/A
<b>Related Policies</b>	ENG 14
<b>Related Budget Schedule</b>	N/A
<b>Last Reviewed</b>	July 2007
<b>Next Review Date</b>	July 2009

<b><u>MANAGEMENT PRACTICE</u></b>	
<b><u>ENG 9</u></b>	<b>Managing Phytophthora Dieback</b>

## 1. Introduction

This policy applies to City of Armadale staff and contractors planning to undertake, or undertaking works with the potential to move soil in or adjacent to areas of bushland.

Practice identified below is consistent with current best practice as defined in Part 5 of the "Managing Phytophthora Guidelines for Local Government" manual prepared by the Dieback Working Group (2000).

## 2. Definitions

**Phytophthora Dieback:** The plant disease caused by the pathogen *Phytophthora cinnamomi*.

**High PC Risk Site:** An area containing or adjacent to, remnant native vegetation that is not degraded, or that has vegetation which was planted for revegetation purposes.

Note: High PC Risk Sites include:

- Areas where there is vegetation that is not degraded on the verge.
- Areas where there is no vegetation on the verge but remnant native vegetation that is not degraded occurs in a neighbouring property which is not zoned residential under Town Planning Scheme 4.

**Disease area:** an area within a High PC Risk Site known to contain Phytophthora Dieback.

**Clean area:** an area within a High PC Risk Site known to be Phytophthora Dieback free or with unknown Phytophthora Dieback status.

**Bushland Reserves:** Land vested in, owned, or managed by the City of Armadale which contains Bushland in 'good' or better condition.

## 3. Policy Implementation

The policy will be achieved through the implementation of the following practices and through the provision of staff training and regular review of new information concerning Phytophthora Dieback.

### 3.1 Support of community volunteers

3.1.1 Reasonable requests for information about Phytophthora Dieback from community conservation groups and other groups or individuals concerned with protecting the natural environment will be met. Requests for information should be forwarded to the City of Armadale Environmental Officer.

3.1.2 Appropriate materials for Phytophthora Dieback management (as determined by the Executive Director Technical Services) will be provided to community conservation groups when:

- a) The material is to be used on land owned or vested in the City;
- b) The community conservation group can demonstrate that adequate training has been or will be provided to ensure safe and effective use of equipment and materials; and
- c) Adequate funds are available.

### **3.1 Identification of High Risk PC Sites**

- 3.2.1 The Civil Works five year works program shall be forwarded annually to the City of Armadale Environmental Officer to identify High PC Risk Sites to which this policy may apply.
- 3.2.2 The City of Armadale Engineering Department and Environmental Department shall then work in consultation to arrange Phytophthora Dieback status of vegetation on the verge of a High Risk PC Sites to be mapped by a qualified interpreter. Funding for dieback interpretation shall be sourced from the project budget.
- 3.2.3 Mapping received as an outcome of 3.2.2 will be placed on Intramaps where appropriate as coordinated by the City of Armadale Environmental Officer in coordination with GIS officers.

### **3.2 Planning and design of road construction, road reconstruction, drainage works and paths in High PC Risk Sites**

- 3.2.1 Work programs shall be planned and designed as a collective unit (determined from the five year work program) to occur in dry weather conditions where practicable.
- 3.2.3 Designs shall include a site plan which clearly identifies the following areas (where applicable) :
  - Diseased and Clean areas (from mapping undertaken in CL3.2.2 and made available on Intramaps);
  - areas of native vegetation;
  - the construction zone;
  - areas in which can be utilised for stockpiles;
  - vehicle parking areas;
  - clean down stations.
- 3.2.4 Stockpile, vehicle parking, and clean down areas are to be located on a sealed or hard stand surfaces. Stockpile, vehicle parking, and clean down areas are not be located on native vegetation or located upslope of a Clean area.
- 3.2.5 Road drainage will not be directed into Clean areas.
- 3.2.6 Where road drainage travels from Disease areas into Clean areas, alternatives to open drainage (such as piping) shall be considered to minimise the risk of spore transfer.

### **3.3 Road, path and drainage construction/ maintenance in High Risk PC Sites**

- 3.3.1 Works shall be undertaken during dry soil conditions where practicable.
- 3.3.2 Civil Works supervisors shall identify any Disease areas shown on-site using flagging tape and/or appropriate signs on the verge and brief field staff about the demarcated areas and the location of stockpile, vehicle parking, and clean down areas as identified on the site plan.

- 3.3.3 Construction activities must stay within the construction zone as shown on the site plan and must not enter bushland.
- 3.3.4 All vehicles and footwear are to be free of mud and soil before arriving at High PC Risk Site. Vehicles are to be parked only in areas identified as parking areas on the site plan.
- 3.3.5 Where the movement of soil is possible on plant or equipment, the sequence of construction shall generally be from Clean areas to Disease areas in order to minimise the need for on-site clean down.
- 3.3.6 Vehicles that enter Disease areas identified on the site plan must be cleaned down at the location designated on the site plan prior to working on or within unsealed surfaces. Clumps of soil on shoes must be brushed off before leaving Disease areas. Clean down should be undertaken consistent with section 3.7 of this management practice.
- 3.3.7 Once leaving a Disease area, vehicles may return to the depot for cleaning provided they do not leave sealed roads.
- 3.3.8 Grading works are to minimise soil transfer where practicable.
- 3.3.9 Only scheme or sterilised water is to be utilised.
- 3.3.10 Unless gravel can be sourced from a certified dieback free source, limestone shall be used for construction activities in Clean areas shown on the site plan.
- 3.3.11 Materials such as gravel, sand and soil derived on-site from a Clean area shall be stockpiled and re-used during construction in preference introducing other materials. If in excess, these materials may be used at other location in the City.
- 3.3.12 Materials such as gravel, sand and soil derived on-site from a Disease area shall not be re-used at other locations in the City and shall be disposed of at one of the Cities landfill facilities.

#### **3.4 Guidelines for the management of Phytophthora Dieback in City of Armadale Bushland Reserves**

- 3.4.1 Dieback status of vegetation shall be considered as part of management plan preparation.
- 3.4.2 New dieback mapping will be forwarded to GIS Officers to be made available on the Intramaps system.
- 3.4.3 All contractors undertaking works in Armadale Bushland Reserves shall be provided a copy of dieback mapping and ENG 9 Managing Phytophthora Dieback and its associated Management Practice. It is the responsibility of the Officer engaging the contractor to provide this information.
- 3.4.4 Works involving the movement of soil shall be undertaken in dry soil conditions where practicable.
- 3.4.5 Where funding permits, a phosphite treatment program will be implemented on a three to five year basis.
- 3.4.6 Where practicable works will begin in Clean areas and finish in Disease areas to minimise transfer on vehicles, footwear, materials or equipment.
- 3.4.7 Where reasonable, tracks shall not be designed to cross dieback fronts.
- 3.4.8 Materials shall not be introduced unless the Phytophthora Dieback status of the area and the materials is known and this activity poses minimal risk.
- 3.4.9 Where practical and where funding permits, paths will be sealed to minimise the likelihood of Phytophthora Dieback spread.
- 3.4.10 Where practical, Phytophthora Dieback fronts will be delineated on-site

- 3.4.11 Where practical, mowing, slashing or the use of herbicide will be used as a firebreak maintenance procedure in preference to grading or ploughing.
- 3.4.12 Tools, equipment or plant will be clean prior to entering a bushland area.

### **3.5 Guidelines for the management of Phytophthora Dieback during fire suppression activities**

- 3.5.1 The City of Armadale Environmental Officer will annually forward dieback mapping to the Fire and Emergency Services Authority, Roleystone Volunteer Fire Brigade and Bedfordale Volunteer Fire Brigade.

### **3.6 Guidelines for landscaping**

- 3.6.1 Plants shall be sourced from a nursery accredited by the Nursery & Garden Industry Western Australia (NAISA).

### **3.7 Guidelines for Clean Down at High Risk PC Sites**

- 3.7.1 Machinery, vehicles and equipment shall arrive on-site free of soil or mud.
- 3.7.2 Cleaning on-site shall be undertaken on a hard stand surface or in an area where water will not wash soil into the High Risk PC site.
- 3.7.3 The cleaning of machinery, vehicles or equipment shall be undertaken using dry methods such as brushing with a brush/ broom or blowing with compressed air. Cleaning with water should only be undertaken on-site when other means are not appropriate.

**Attachment 2: Analysis of the implementation of clauses of the revised ENG 9 Management Practice as relates to the O’Meagher road construction project.**

Clause of draft ENG 9 Management Practice	Implementation at test site	Recommendation
<b>3.2 Planning and design of road construction, road reconstruction, drainage works and paths in High PC Risk Sites</b>		
Work programs should be planned and designed as a collective unit (determined from the five year work program) to occur in dry periods and assist with implementing these guidelines.	O’Meagher Rd was undertaken as a test site. The five year road construction and maintenance program was recently reviewed by City of Armadale Environmental Officer and advice regarding which projects require dieback considerations has been forwarded to Technical Services.	Retain clause in draft ENG 9 Management Practice.
Phytophthora Dieback status of vegetation on the verge should be mapped by a qualified interpreter. In those areas where vegetation occurs on properties adjacent, an ‘over the fence’ interpretation should be undertaken.	The road widening project at O’Meagher Rd was flagged as a High Risk PC Site on one side of the road where a bushland reserve occurs. This reserve was recently mapped for dieback. All road construction that is scheduled to occur this year - and in which the policy would apply - has been mapped, or is currently being mapped by a qualified interpreter.	Retain clause in draft ENG 9 Management Practice.
The following areas (where necessary) should be clearly identified on engineering drawings: Disease and Clean areas (from mapping undertaken in CL3.2.2); areas of native vegetation; the construction zone; areas in which can be utilised for stockpiles; vehicle parking areas; clean down stations.	Disease and Clean areas were clearly illustrated on the drawings. Areas of native vegetation other than scattered trees were not illustrated. Areas to be used for stockpiles, vehicle parking and clean down areas were not shown on the drawings but clearly marked on-site.	Retain clause in draft ENG 9 Management Practice.

Clause of draft ENG 9 Management Practice	Implementation at test site	Recommendation
<p>Stockpile, vehicle parking, and clean down areas should preferably be on a sealed or hard stand surfaces. Stockpile, vehicle parking, and clean down areas should not be on native vegetation or located upslope of a Clean area.</p>	<p>Stockpile areas for pipes were clearly identified on site. Whilst not on a hard surface, the pipes were clean materials in Clean area which was free of vegetation. Vehicle parking was on the hard stand surfaces. Clean down areas were not required as a part of this project.</p>	<p>Retain clause in draft ENG 9 Management Practice. Recommend the auditing of a road construction project that requires clean down areas as a component of future policy reviews.</p>
<p><b>3.3 Road, path and drainage construction/ maintenance in High Risk PC Sites</b></p>		
<p>Road drainage should not be directed into Clean areas.</p>	<p>The design of the drainage along the High PC Risk side of the road was undertaken specifically to manage dieback. The site consists of a sloped road with dieback at the top and bottom of the hill with a dieback free section in the middle of the two. Drainage in the upslope Disease area was designed and installed as open swales (as previously occurred along that road). Where this flowed into the Clean area drainage was directed into pipes to minimise transfer of dieback spores from the upslope Disease area. The drainage then returned to open drain when entering the Disease area at the bottom of the slope.</p>	<p>Retain clause in draft ENG 9 Management Practice. This clause has been extended to identify that piped drainage may be appropriate in situations where water flows naturally from a Disease area to a Clean area.</p>
<p>Works should be undertaken during dry soil conditions.</p>	<p>Although unexpected rainfall occurred during the project implementation, all reasonable efforts were made to scheduled works over the summer months in dry conditions.</p>	<p>Retain clause in draft ENG 9 Management Practice.</p>
<p>Civil Works supervisors should identify any Disease areas shown on-site using flagging tape and/or appropriate signs on the verge. Field staff should be briefed about the demarcated areas.</p>	<p>Clear signs were placed on site and retained in those positions through the project On-ground staff were aware of the meaning and significance of the signs.</p>	<p>Retain clause in draft ENG 9 Management Practice.</p>

Clause of draft ENG 9 Management Practice	Implementation at test site	Recommendation
Construction activities must stay within the construction zone as shown on the site plan and must not enter bushland.	No evidence of construction works entering the adjacent bushland was evident.	Retain clause in draft ENG 9 Management Practice.
All vehicles and footwear are to be free of mud and soil before arriving at High PC Risk Site. Vehicles should be parked only in areas identified as parking areas on the site plan.	The grader and rock breaker were the only vehicles which left sealed surfaces. These vehicles both had their wheels on the sealed roads. If the blade of the grader or the chisel of the rock-breaker were not clean, there is a potential for the spread of dieback spores. However these were not inspected arriving at the site. A designated area was not defined however vehicles other than the plant described above were parked on sealed surfaces on site. Footwear was not inspected however staff were briefed about minimising any movements in and out of the bushland.	Retain clause in draft ENG 9 Management Practice. In any future management practice audits, inspect the cleanliness of plant upon the arrival at the site.
Sequence of construction works should generally work from Clean areas and finish in Disease areas to minimise the need for on-site clean down.	<p>Comment with relation to different project stages:</p> <p>1) <u>Clearing of the vegetation</u> – plant pulled vegetation requiring clearing into the centre of the road where this material was collected and taken to the landfill site. The grader started at the bottom of the hill and worked towards the top. There is a chance that whilst it was generally moving soil and vegetation from its position on the side of the road towards the centre of the road that some soil containing dieback spores may have remained on the blades and be potentially could have been spread into the Clean area.</p> <p>2) <u>Grading of the shoulder</u> - during grading of the shoulder, clean material (limestone) was spread up and down the current verge. The plant undertook this work in repeats of a ‘bottom of the hill too top of the hill sequence’. Works were not sequenced according to the dieback status (i.e.: start in the Clean area and work into the Disease area). However, the materials being spread were clean materials and the wheels of the plant remained on the sealed surface. The movement of infected</p>	Retain clause in draft ENG 9 Management Practice.

Clause of draft ENG 9 Management Practice	Implementation at test site	Recommendation
	<p>soil was not likely in this scenario.</p> <p>3) <u>Laying of road materials</u> - The plant laying the road materials remained on sealed surfaces and only spread clean materials along the road and its new shoulder.</p> <p>4) <u>Rock breaking for drainage</u> - The rock breaker undertook works in a sequence from the bottom of the hill to the top of the hill. No clean down was undertaken after working in the Disease area and before working in the Clean area. However, this is likely to have posed minimal risk given that the plants' wheels remained on the sealed surface and the rock breaker chisel itself is unlikely to hold any soil.</p> <p>5) <u>Digging of the drainage trench</u> - Removing material after rock breaking to create the drain was undertaken in a sequence from the bottom of the hill to the top of the hill. There is a chance that soil stuck on the bucket could have contained dieback and be spread into the Clean area. Materials pulled out of the drainage trench in Disease areas were loaded straight into a truck and disposed of at the landfill site. Material from the trench where the pipe is installed will be backfilled on-site (re-use of clean materials consistent with the draft ENG 9 Management Practice).</p> <p>6) <u>Laying of the pipes</u> - pipes are only being laid in the Clean area and have been stored on-site in the Clean area to minimise risk.</p>	
<p>Vehicles that enter Disease areas identified on the site plan must be cleaned down at the location designated on the site plan prior to working on or within unsealed surfaces.</p>	<p>At two stages of the project plant came into direct contact with Disease areas - both when clearing vegetation along the side of the road and when removing soil for drainage.</p>	<p>Retain clause in draft ENG 9 Management Practice.</p>

Clause of draft ENG 9 Management Practice	Implementation at test site	Recommendation
Clumps of soil on shoes should be brushed off before leaving Disease areas.	Plant travelled along sealed roads to the landfill site and then returned to the depot. If soils remained on the plant – they would have been cleaned at the depot.	
Once leaving a Disease area, vehicles may return to the depot for cleaning provided they do not leave sealed roads.	Plant travelled along sealed roads to the landfill site and then returned to the depot. If soils remained on the plant – they would have been cleaned at the depot.	Retain clause in draft ENG 9 Management Practice.
The blade of the grader should be angled in order to minimise the transfer of soil long distances.	Difficult to assess. However, the grader initially pulled materials including vegetation and soil to the centre of the road rather than pushing it up and down the road side. Similarly, when the trench was being dug, the plant dug the materials and emptied the soil directly into a truck for disposal.	Retain clause in draft ENG 9 Management Practice.
Only scheme or sterilised water should be utilised.	Limestone materials were watered prior to spreading using water obtained from the City of Armadale depot. This water is derived from a bore which is not consistent with the redrafted ENG 9 Policy and Management Practice.	Retain clause in draft ENG 9 Management Practice.
Unless gravel can be sourced from a certified dieback free source, limestone should be used for construction activities in Clean areas shown on the site plan.	Limestone material was used on the whole project.	Retain clause in draft ENG 9 Management Practice.
Materials such as gravel, sand and soil derived on-site from a Clean area should be stockpiled and re-used during construction in preference introducing other materials. If in excess, these materials may be used at other location in the City.	Material from the Clean area was stockpiled in the clean area and re-used to fill in the drainage trench once the pipes were installed.	Retain clause in draft ENG 9 Management Practice.

<b>Clause of draft ENG 9 Management Practice</b>	<b>Implementation at test site</b>	<b>Recommendation</b>
Materials such as gravel, sand and soil derived on-site from a Disease area should not be re-used at other locations in the City.	Material removed from the Disease areas was disposed of at the Landfill site.	Retain clause in draft ENG 9 Management Practice.



**POLICY**

**ENG 9 – Managing  
Phytophthora Dieback**

**Management Practice**

**ENG 9**

**Relevant Delegation**

N/A

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**Rationale**

The City's Environmental Position Paper requires Council to adopt and implement a dieback management practice and/or code of practice.

**Policy**

Council seeks to protect native remnant vegetation within the Local Government area by minimising the risk of introducing and spreading Phytophthora Cinnamomi and in accordance with the current Management Practices.

**Related Local Law**

Local Government Property Local Law.

**Related Policies**

N/A

**Related Budget Schedule**

M81

**Last Reviewed**

7 June 2005

**Next Review Date**

4 March 2008

**Authority**

Council Meeting of 4 March 2003  
(C6/2/03)

7 June 2005 (T49/05/05)

**Refer separate attachment**

