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Port of Brisbane Corporation

Final Report

Plant Survey of Lucinda Drain – Port of Brisbane

November 2006

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Quality Assurance Statement				
Revision No.	Author	Reviewer	Approved for Issue	
			Name	Date
1	Nicole Lechner	Rob Friend	Rob Friend	07/11/06
2	Nicole Lechner	Rob Friend	Rob Friend	22/11/06

Natural Solutions Environmental Consultants Pty Ltd

Brisbane Office:
Suite 16, Level 2 Central Brunswick,
Cnr Brunswick & Martin Sts, Fortitude Valley Qld 4006
PO Box 1156, Fortitude Valley Qld 4006
Tel: (07) 3124 9400
Fax: (07) 3124 9499

Cairns Office:
Level 2, 26 Florence Street, Cairns Qld 4870
PO Box 6935, Cairns Qld 4870
Tel: (07) 4041 3522
Fax (07) 4051 4141

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EXECUTIVE SUMMARY

Natural Solutions Environmental Consultants Pty Ltd was commissioned to undertake a plant survey of Lucinda Drain, Port of Brisbane. This assessment is the twelfth report prepared regarding a survey of plants occurring along the banks of the Lucinda Drain. The primary purpose of the survey and associated reporting is to monitor the occurrence and level of abundance of weed species and make appropriate recommendations with respect to the ongoing management of plants along Lucinda Drain.

Lucinda Drain is located along the eastern side of the Port of Brisbane and is approximately 2.5 kilometres in length. The drain provides tidal, stormwater and wash-drainage from all hardstands and roof water runoff for the majority of facilities and roads along the eastern section of the Port of Brisbane.

Summary of Findings

The following points summarise the findings of the November 2006 plant survey of Lucinda Drain.

1. No individuals of Groundsel (*Baccharis halimifolia*) or Parthenium Weed (*Parthenium hysterophorus*) were located during the survey.
2. Annual ragweed (*Ambrosia artemisiifolia*), Singapore daisy (*Sphagneticola trilobata*), Camphor Laurel (*Cinnamomum camphora*), Broad-leaved Pepper Tree (*Schinus terebinthifolia*), Asparagus Fern (*Asparagus aethiopicus* cv. Sprengeri), Lantana (*Lantana camara*) and Creeping Lantana (*Lantana montevidensis*) were the declared weeds under the *Land Protection (Pest and Stock Route Management) Regulation 2003* (LPR 2003) recorded during the survey.
3. Annual ragweed (*Ambrosia artemisiifolia*), Cobblers pegs (*Bidens pilosa*), Stinking roger (*Tagetes minuta*), Siratro (*Macroptilium atropurpureum*), Glycine (*Neonotonia wightii*), Green panic (*Panicum maximum*), Rhodes grass (*Chloris gayana*) and Red Natal grass (*Melinis repens*) were the dominant weed species along the eastern bank of the drain.
4. 59 plant species were recorded. This consisted of 18 native/planted species and 41 environmental weed species.
5. Four new weed species were observed during this survey, including Asparagus Fern (*Asparagus aethiopicus* cv. Sprengeri), Phasey Bean (*Macroptilium lathyroides*), Burr Medic (*Medicago polymorpha*), and a planted Agave (*Agave* sp.).

No target weed species identified by Australian Quarantine and Inspection Service (AQIS) (see **Appendix C**) were located during the plant survey.

All environmental weed species identified along Lucinda Drain, following the implementation of the plants surveys, are being managed in accordance with a land management schedule. No unusual plant species or potential exotic plant incursions were identified during this and the previous plant surveys.

Recommendations regarding the long-term management of environmental weeds within the Lucinda Drain area are provided in **Section 5.0** of this report.

1.0 INTRODUCTION

Natural Solutions Environmental Consultants Pty Ltd was commissioned to undertake a survey of plant species along Lucinda Drain, Port of Brisbane[1] and to produce associated reporting detailing the findings from this survey. This is the twelfth report in a series of reports prepared from surveys undertaken in:

- February (summer) 2001;
- October – December (spring) 2001;
- February (summer) 2002;
- November (spring) 2002;
- March (summer) 2003;
- November (spring) 2003;
- March (summer) 2004;
- October (spring) 2004;
- April (summer) 2005;
- November (spring) 2005; and
- March (summer) 2006.

These plant surveys have been implemented in a response to a request from the Australian Quarantine and Inspection Service (AQIS) to increase surveillance relating to potential pest incursions. The surveys, commissioned by the Port of Brisbane Corporation (PBC), represents a long-term monitoring program at the port to survey for and identify exotic plant species which may enter the country on containers or other materials shipped and unloaded at the Port of Brisbane facility.

The biannual plant survey is undertaken on a six monthly interval, during summer (around February) and spring (around October) of each year. The current survey was undertaken in October 2006.

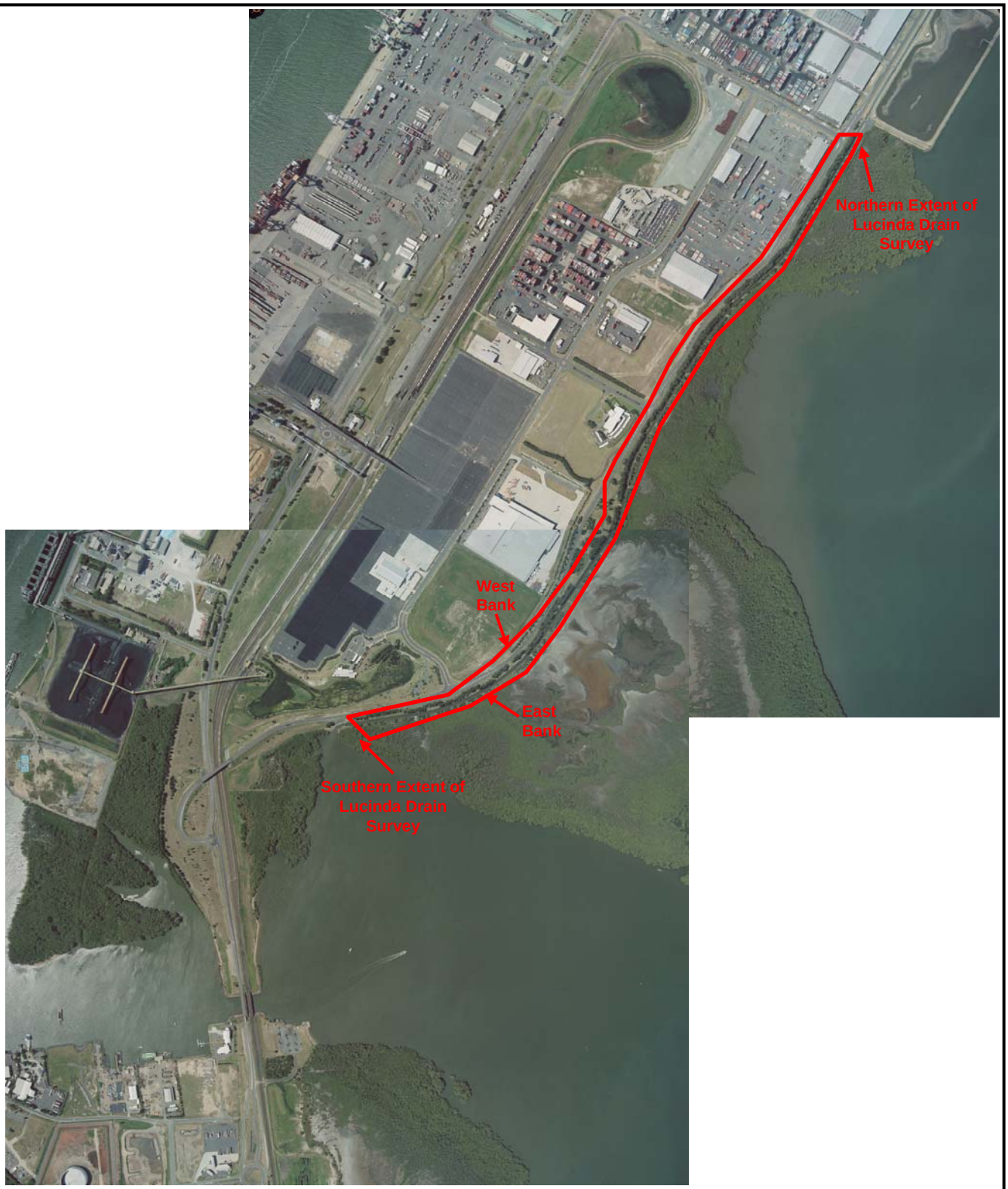
1.1 SITE DESCRIPTION

The plant surveys focus on the Lucinda Drain area at the Port of Brisbane (**Figure 1)**. The Lucinda Drain is located along the eastern side of the Port of Brisbane and provides drainage for stormwater run-off from the hardstand areas adjacent to the drain.

[1] The Port of Brisbane was originally called Fisherman Islands. Fisherman Islands, however no longer exists as a location and is now known officially as Port of Brisbane.

The Lucinda Drain is a constructed drainage channel using concrete filled geo-textile sandwich construction some 2.5 kilometres in length. The berms of the channel consist of sand above the geo-textile sandwich.

The channel currently has a regular maintenance schedule that provides for the west bank of the drain (adjacent to Lucinda Drive) to be mowed and sprayed for noxious weeds. The east bank of the drain has an irregular maintenance program with some time between maintenance events.



Ref: J05-145
Date: November 2006
Scale: NTS
Source: PBC 2006
Client: Port of Brisbane Corporation

Figure 1

Site Location – Lucinda Drain, Port of Brisbane

Plant Survey of Lucinda Drain – Port of Brisbane

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2.0 METHODOLOGY

This plant survey of Lucinda Drain was undertaken on the 31 October 2006. The survey consisted of one transect on the eastern side of the Lucinda Drain. As the waters edge of the western bank is difficult to access in places, an inspection of this bank was taken visually at regular intervals from the eastern bank of the drain.

This technique was trialled during the November 2003 survey (the third survey) of the Lucinda Drain. An analysis of the data collected following the third survey using this survey methodology revealed that the results are consistent with the previous survey data in terms of the number of plants recorded.

All plant species observed during the survey were recorded on the survey data sheet (see **Appendix E**).

2.1 AQIS TARGET WEEDS LIST

AQIS has prepared a list of weed species identified as presenting a threat to natural and agriculture systems. This list is contained in **Appendix C**.

None of the target weed species identified by AQIS were located during this plant survey.

3.0 FINDINGS

Appendix A contains a list of plant species recorded during each survey from the March 2004 survey to date. **Appendix B** contains a schedule of all plant species recorded within the survey sites as well as those recorded incidentally during all surveys.

The following points summarise the findings of the October 2006 plant survey of Lucinda Drain:

1. No individuals of Groundsel (*Baccharis halimifolia*) or Parthenium Weed (*Parthenium hysterophorus*) were located during the survey.
2. Annual ragweed (*Ambrosia artemisiifolia*), Singapore daisy (*Sphagneticola trilobata*), Camphor Laurel (*Cinnamomum camphora*), Broad-leaved Pepper Tree (*Schinus terebinthifolia*), Asparagus Fern (*Asparagus aethiopicus* cv. Sprengeri), Lantana (*Lantana camara*) and Creeping Lantana (*Lantana montevidensis*) were the declared weeds under the *Land Protection (Pest and Stock Route Management) Regulation 2003* (LPR 2003) recorded during the survey.
3. Annual ragweed (*Ambrosia artemisiifolia*), Cobblers pegs (*Bidens pilosa*), Stinking roger (*Tagetes minuta*), Siratrio (*Macroptilium atropurpureum*), Glycine (*Neonotonia wightii*), Green panic (*Panicum maximum*), Rhodes grass (*Chloris gayana*) and Red Natal grass (*Melinis repens*) were the dominant weed species along the eastern bank of the drain.
4. 59 plant species were recorded. This consisted of 18 native/planted species and 41 environmental weed species.
5. Four new weed species were observed during this survey, including Asparagus Fern (*Asparagus aethiopicus* cv. Sprengeri), Phasey Bean (*Macroptilium lathyroides*), Burr Medic (*Medicago polymorpha*), and a planted Agave (*Agave* sp.).

4.0 DISCUSSION

4.1 WEEDINESS OF PLANTS OBSERVED

This twelfth survey of plants occurring along the banks of Lucinda Drain has identified a total number of 59 plant species. Of these 41 are considered weeds.

Seven declared weeds listed under the *Land Protection (Pest and Stock Route Management) Regulation 2003* (LPR 2003) were recorded within Lucinda Drain during the survey. The species, their Class under LPR and abundance/location are outlined in **Table 1**. **Appendix D** outlines the LPR (2003) declared weed species recorded during past surveys.

TABLE 1: THE CLASS AND ABUNDANCE OF THE DECLARED WEED SPECIES (UNDER *LPR 2003*) RECORDED DURING THE SURVEY

CLASS	SPECIES	ABUNDANCE/LOCATION
Class 2 pests	Annual Ragweed (*Ambrosia artemisiifolia)*	Very Abundant along the eastern side of the drain, also occurs on the western side of the bank
Class 3 pests	Broad-leafed Peppertree (*Schinus terebinthifolia)*	Seven individuals were recorded (4 along the eastern bank and 3 along the western bank).
	Camphor Laurel (*Cinnamomum camphora)*	One individual recorded on the west bank
	Lantana (*Lantana camara)*	One individual recorded on eastern side of bank
	Singapore Daisy (*Sphagneticola trilobata)*	Small infestation recorded along the eastern bank
	Creeping Lantana (*Lantana montevidensis*)	One individual recorded on eastern side of bank
	Asparagus Fern (*Asparagus aethiopicus* cv. Sprengeri)	Small infestation recorded along the eastern bank

The following weed species not listed under *Land Protection (Pest and Stock Route Management) Regulation 2003* (LPR 2003) but listed as noxious weeds by Brisbane City Council (BCC) were observed during this survey:

- Johnson Grass (*Sorghum halepense*); and
- Stinking Roger (*Tagetes minuta*).

In addition, one species listed as an environmental weed by BCC (Mile-a-Minute, Ipomoea cairica) was observed during this study.

4.2 General Comments

The long-term management of these environmental weed species should be integrated into a program of habitat management, including actions such as:

1. Shading through the development of a canopy and understorey;
2. Increase the understorey diversity to increase competition for resources with the potential decrease in weediness and weed plant diversity; and
3. Targeted herbicide application.

4.3 Comparisons Between Surveys

An analysis of the numbers and species recorded during this survey and compared to the previous surveys indicates that there is a slight variation between both species and the number of species recorded.

Table 2 highlights the numbers of weed species identified in the previous plant surveys of Lucinda Drain while **Table 3** outlines the numbers of weed species within each family that were recorded in the latest survey.

Table 2: Number of Weed Species Recorded Per Survey

SURVEY	NUMBER OF WEED SPECIES RECORDED
February 01	37
October 01	35
February 02	27
November 02	35
May 03	27
November 03	36
March 04	27
October 04	29
April 05	33
November 05	37
March 06	35
October 2006	**41**

TABLE 3: NUMBER OF WEED SPECIES BY FAMILY FOR OCTOBER 2006 SURVEY

FAMILY	NUMBER OF WEED SPECIES
Asteraceae	9
Fabaceae	8
Poaceae	7
Verbenaceae	4
Convolvulaceae	2
Amaranthaceae	1
Anacardiaceae	1
Boraginaceae	1
Asclepiadaceae	1
Lauraceae	1
Passifloraceae	1
Portulacaceae	1
Primulaceae	1
Solanaceae	1
Asparagaceae	1
Agavaceae	1

The above **Tables 2** and **3** indicate:

- There has been a relatively consistent trend of the number of weed species along the banks of Lucinda Drain in the post summer and post winter surveys, however the number of weeds recorded within the current survey is slightly higher than previously recorded (see **Figure 2**);
- **Figure 2** identifies the survey outcome trend that surveys taken early in the calendar year provides less plant weed species than those conducted in the later half of the calendar year;
- With this in mind the number of weed species recorded in this spring survey (41 in October 2006) is only slightly higher than the number of weed species recorded the previous spring survey (37 in November 2005);
- Plant cover throughout the eastern portion of the drain was significantly less than the previous spring survey (November 2005). This lends to the increase in number of species recorded as there was an a greater ease of detecting species present and a decrease in plant competition allowing a diversity of species to germinate and grow; and
- There was also a change in the dominant family with Asteraceae followed by Fabaceae as the dominate families, while in previous surveys Grasses (Poaceae) were the dominant family along the drain.

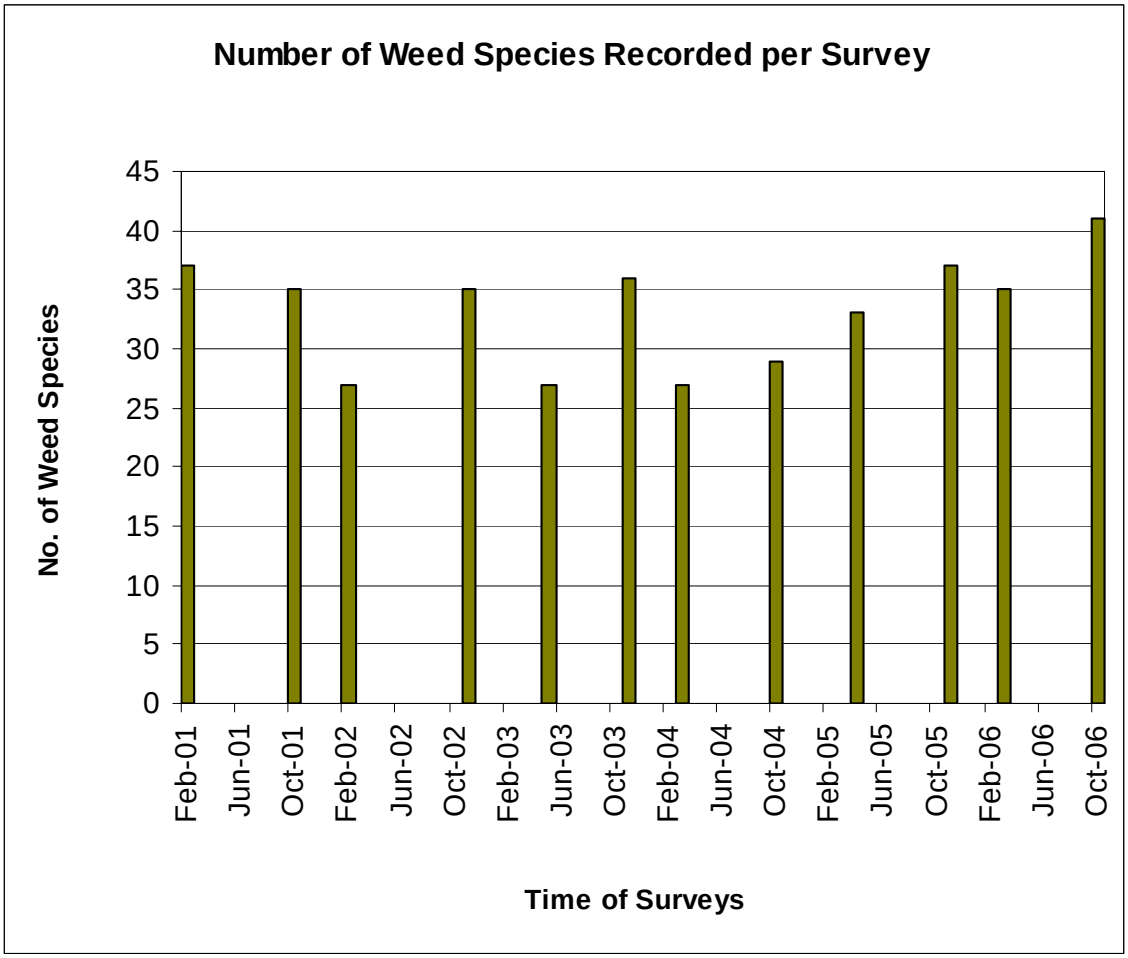

Figure 2: Number of Weed Species Recorded per Survey

4.4 WEATHER CONDITIONS

The following graph (**Figure 3**) portrays the rainfall recorded at the Port of Brisbane (PBC) as well as the long term rainfall and temperature averages (taken from the Brisbane Airport).

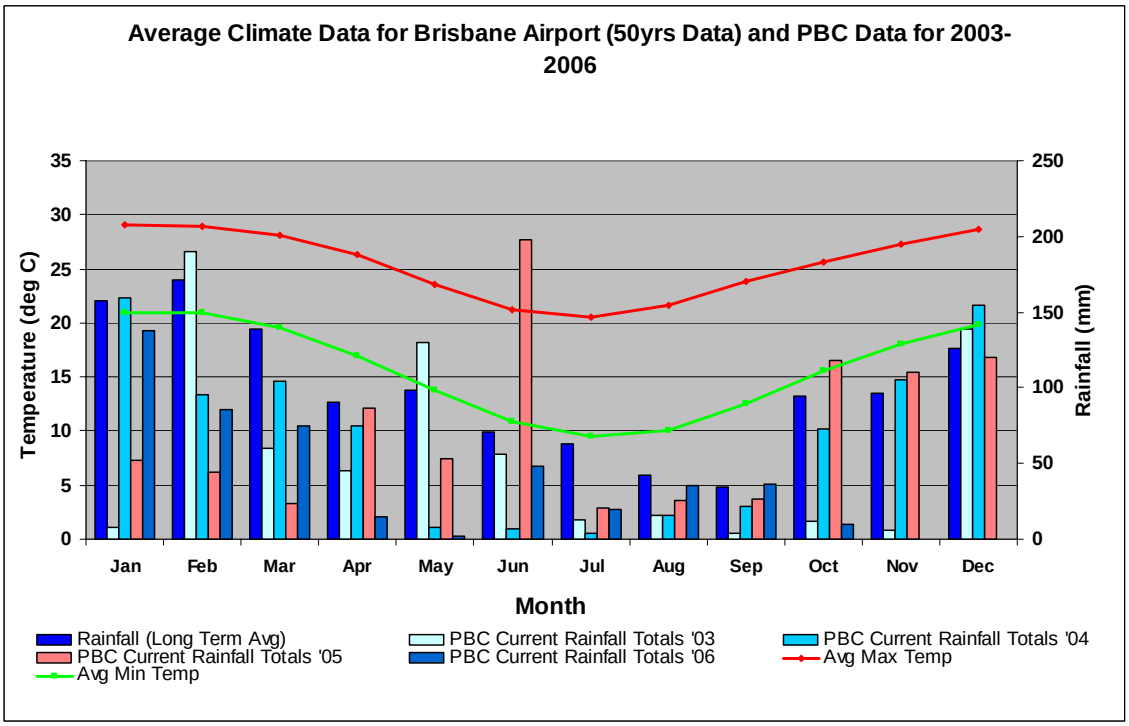

Figure 3: Long-term Climatic Averages compared with the Port of Brisbane Rainfall Data

The following can be derived from this data with respect to the plant growth around the Lucinda Drain:

- Rainfall in the months preceding the current survey (January 2006 – July 2006) was much lower than average;
- There was near average rainfall in September and August 2006 however the month of the survey (October 2006) had significantly less than average rainfall;
- The slight increase in levels of rainfall experienced in the two months prior to the survey are likely to have provided suitable conditions for introduced plant species to germinate. As such, a slight increase in the number of weed species was recorded. However, due to the overriding drought conditions that are currently being experienced, most weed species are not very abundant and generally the drain appears less infested than previous surveys.

5.0 RECOMMENDATIONS

Recommendations relating to the management of the banks of the Lucinda Drain and of the inflow of stormwater into the drain which may transport and introduce exotic plant material to the drain have been made in previous reports.

It is assumed that either these recommendations have been adopted and are being implemented or they are yet to be implemented.

The slight increase in weed species detected is thought to be due to climatic factors. Therefore, as there has been no significant alteration in the environmental weed status and there is ongoing management of the banks of the Lucinda Drain, the following recommendations are made:

1. Maintain all existing weed management programs along both banks of the Lucinda Drain; and
2. Continue programmed monitoring of the diversity and status of plant species along the banks of the Lucinda Drain through twice-yearly plant surveys.

6.0 REFERENCES

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Appendix A: Survey Analysis

Species	Common name	LPR class	Oct 06	Mar 06	Nov 05	Mar 05	Oct 04	Mar 04
Aizoaceae								
Carpobrotus glaucescens	Pigface*	-	X	X	X	X	X	X
Sesuvium portulacastrum	Sea Purslane*	-	X	X	X	X	X	X
Amaranthaceae								
Alternanthera pungens	Khaki Weed	-				X		
Amaranthus quitensis	South American Amaranthus	-			X			
Amaranthus viridis	Green Amaranths	-				X		
Gomphrena celosoides	Gomphrena Weed	-	X	X				
Anacardiaceae								
Schinus terebinthifolius	Broad-leaved Peppertree	3	X	X	X		X	X
Asclepiadaceae								
Gomphocarpus physocarpus	Balloon Cotton Bush	-	X	X				
Asparagaceae								
Asparagus aethiopicus cv. Sprengeri	Asparagus Fern	3	X					
Asteraceae								
Ageratum houstonianum	Blue Billy-Goat	-	X		X			
Ambrosia artemisiifolia	Annual Ragweed	2	X		X		X	X
Baccharis halimifolia	Groundsel Bush	2					X	X
Bidens pilosa	Cobblers Pegs	-	X	X	X	X	X	X
Calyptocarpus vialis	Creeping Cinderella Weed	-				X		
Cirsium vulgare	Spear Thistle	-	X		X		X	
Conyza bonariensis	Faxleaf Fleabane	-		X	X	X		
Conyza pusilla	Canadian Fleabane	-	X	X	X			
Crassocephalum crepidioides	Thickhead	-			X	X	X	
Emilia sonchifolia	Emilia	-	X	X				
Hypochaeris radicata	Flatweed	-	X	X			X	
Parthenium hysterophorus	Parthenium Weed	2		X				
Sonchus oleraceus	Rough Sow Thistle	-			X	X		
Sphagneticola trilobata	Singapore Daisy	3	X	X			X	X
Tagetes minuta	Stinking Roger	-	X	X		X		
Agavaceae								
Agave sp.	Agave	-	X					
Avicenniaceae								
Avicennia marina	Grey Mangrove*	-	X	X	X	X	X	
Boraginaceae								
Heliotropium amplexicaule	Blue Heliotrope	-	X	X	X			
Cactaceae								
Opuntia sp	Prickly Pear	2						
Casuarinaceae								
Casuarina equisetifolia	Coastal Sheoak*	-	X	X	X	X	X	X
Casuarina littoralis	Black Sheoak*	-	X	X	X	X	X	X
Caesalpiniaceae								
Crotalaria paniculata	Poor Mans Gold	-						
Senna pendula var glabrifolia	Easter Cassia	-						

Species	Common name	LPR class	Oct 06	Mar 06	Nov 05	Mar 05	Oct 04	Mar 04
Commelinaceae								
Commelina diffusa (C. cyanea)	Wandering Jew	-		X				
Convolvulaceae								
Cuscuta campestris	Dodder	-	X			X		
Convolves arvensis	European Bindweed	-						
Ipomoea so (alba)	White Ipomoea	-			X			
Ipomoea cairica	Mile-a-Minute	-	X	X	X		X	
Ipomoea pes-caprae	Goats Foot Convolvus*	-			X	X	X	X
Cyperaceae								
Carex appressa	Tall Sedge*	-		X				
Cyperus sp.	A sedge							X
Cyperus congestus	Clustered Flatsedge	-			X			
Cyperus eragrostis	Umbrella Sedge	-			X			
Cyperus rotundus	Nut Grass	-		X				
Cyperus polystachyos	Bunchy Sedge	-		X				
Euphorbiaceae								
Chamaesyce maculata	Caustic Weed	-				X		
Euphorbia hirta	Asthma Plant	-					X	
Euphorbia prostrata	Caustic Creeper	-			X			
Euphorbia sp.	Spurge	-						X
Macaranga tanarius	Macaranga*	-	X	X	X	X	X	X
Phyllantus virgatus	Creeping Phyllantus	-				X		
Fabaceae								
Crotalaria pallida	Rattle Pod	-	X	X	X	X		
Desmodium uncinatum	Silver Leafed Desmodium	-	X			X		X
Macroptilium atropurpureum	Siratro	-	X	X	X	X	X	X
Macroptilium lathyroides	Phasey Bean	-	X					
Medicago polymorpha	Burr Medic	-	X					
Medicago sativa	Lucerne	-		X	X		X	X
Melilotus indicus	Sweet Melilotus	-	X		X		X	
Neonotonia wightii	Glycine	-	X		X			
Sesbania cannabina	Sesbania Pea	-		X	X	X		X
Trifolium repens	Clover	-	X	X				
Vigna marina	Yellow Beach Bean*	-		X				
Lauraceae								
Cinnamomum camphora	Camphor Laurel	3	X				X	
Malvaceae								
Hibiscus tiliaceus	Cotton Tree*	-		X	X	X	X	X
Modiola caroliniana	Red Flower Mallow*	-						
Sida cornifolia	Flannel Weed	-		X	X	X	X	X
Sida rhombifolia	Common Sida	-		X		X		X
Mimosaceae								
Acacia aulacocarpa	Hickory Wattle*	-		X	X		X	X
Myrtaceae								
Eucalyptus robusta	Swamp Mahogany*	-	X	X	X	X		
Lophostemon confertus	Brush Box*	-	X	X	X	X	X	X
Melaleuca linariifolia	Flax-leafed Paperbark*	-	X	X	X	X	X	X
Melaleuca quinquenervia	Paperbark Teatree*	-	X	X	X	X	X	X

Species	Common name	LPR class	Oct 06	Mar 06	Nov 05	Mar 05	Oct 04	Mar 04
Callistemon viminalis	Weeping Bottlebrush		X		X			
Onagraceae								
Oenothera drummondii	Beach Evening Primrose*	-	X	X	X	X	X	X
Oxalidaceae								
Oxalis corniculata	Creeping Oxalis	-						
Pandanaceae								
Pandanus tectorius	Screw Pine*	-	X	X	X	X	X	X
Passifloraceae								
Passiflora cairica	Stinking Passion Vine	-	X				X	
Passiflora subpeltata	White Passion Flower	-			X		X	X
Poaceae								
Brachiaria decumbens	Signal Grass			X		X		
Brachiaria mutica	Para Grass					X	X	X
Cenchrus ciliaris	Buffel Grass	-						
Cenchrus echinatus	Mossman River Grass	-	X	X	X	X	X	X
Chloris gayana	Rhodes Grass	-	X	X	X	X	X	X
Chloris truncata	Windmill Grass	-		X		X	X	X
Chloris virgata	Feather-top Rhodes Grass	-		X	X	X		
Cynodon dactylon	Couch Grass	-	X	X	X	X	X	X
Dichanthium aristatum	Angleton Grass	-						
Digitaria ciliaris	Summer Grass							
Eleusine indica	Crowsfoot Grass	-				X		
Hemarthria uncinata	Mat Grass	-						
Imperata cylindrica	Blady Grass*	-	X	X				
Melinis repens	Red Natal Grass	-	X	X	X	X	X	X
Melinis minutiflora	Molasses Grass		X					
Poa annua	Winter Grass	-						
Panicum effusum	Hairy Panic	-			X	X		X
Panicum maximum	Green Panic	-	X	X	X	X	X	X
Paspalum dilatatum	Paspalum	-		X				X
Phragmites australis	Common Reed*	-	X		X	X	X	X
Sorghum halepense	Johnson Grass	-	X	X	X	X	X	X
Typha orientalis	Cumbungi / Typha*	-	X	X	X	X	X	
Urochloa mosambicenis	Sabi Grass	-			X			
Portulacaceae								
Portulaca pilosa	Hairy Pigweed	-	X		X	X		
Primulaceae								
Anagallis arvensis	Scarlet Pimpernel	-	X		X			
Proteaceae								
Banksia integrifolia	Coastal Banksia*	-	X	X	X	X	X	X
Sapindaceae								
Cardiospermum halicacabum	Balloon Vine	-				X		
Cupaniopsis anacardioides	Tuckeroo*	-	X	X	X	X	X	X
Dodonaea triquetra	Hop Bush							X
Solanaceae								
Solanum nigrum	Brazilian Nightshade	-	X		X	X		X
Ulmaceae								
Celtis sinensis	Chinese Celtis	-		X				

Species	Common name	LPR class	Oct 06	Mar 06	Nov 05	Mar 05	Oct 04	Mar 04
Verbenaceae								
Lantana camara	Lantana	3	**X**	X	X	X	X	X
Lantana montevidensis	Creeping Lantana	3	**X**	X				
Verbena bonariensis	Purple Top	-	**X**		X			X
Verbena aristigera	Mayne's Pest	-	**X**					
Vitex trifolia var trifolia	Coastal Vitex*	-			X			X

Notes: -

- * designates indigenous species
- LPRA – *Land Protection (pest and stock route management) Regulations* 2003, Schedule 2.

Appendix B: Plant Species List

This species list is a combination of the all plant surveys undertaken along the Lucinda Drain, Fisherman Islands.

Form code: - T = tree; t = small tree; s = shrub; g = grass; h = herb; f = fern; v = vine; w = weed; a = aquatic plant; (p) = planted, n = native or planted. Highlighted species indicate new species recorded during the plant survey. LPA – Land *Protection (pest and stock route management) regulations* (2003)

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPR)
Aizoaceae			
Carpobrotus glaucescens [n]	Pigface	v	-
Sesuvium portulacastrum [n]	Sea Purslane	h	-
Amaranthaceae			
Alternanthera pungens	Khaki Weed	h,w	-
Amaranthus quitensis	South American Amaranthus	h,w	
Amaranthus viridis	Green Amaranthus	h,w	-
Gomphrena celosioides	Gomphrena Weed	h,w	-
Anacardiaceae			
Schinus terebinthifolia	Broad-leaved Peppertree	s,w	-
Asclepiadaceae			
Gomphocarpus physocarpus	Balloon Cotton Bush	s,w	-
Asparagaceae			
Asparagus aethiopicus cv. Sprengeri	Asparagus Fern	v,w	3
Asteraceae			
Ageratum houstonianum	Blue Billy-Goat	h,w	-
Ambrosia artemisiifolia	Annual Ragweed	h,w	2
Baccharis halimifolia	Groundsel Bush	s,w	2
Bidens pilosa	Cobblers Pegs	h,w	-
Calyptocarpus vialis	Creeping Cinderella Weed	h,w	-
Cirsium vulgare	Spear Thistle	h,w	-
Conyza bonariensis	Flaxleaf Fleabane	h,w	-
Conyza pusilla	Canadian Fleabane	h,w	-
Crassocephalum crepidioides	Thickhead	h,w	-
Emilia sonchifolia	Emilia	h,w	-
Hypochaeris radicata	Flatweed	h.w	-
Parthenium hysterophorus	Parthenium Weed	h,w	2
Senecio sp (lautus)	Fireweed	h	-
Sonchus oleraceus	Rough Sow Thistle	h,w	-
Sphagneticola trilobata	Singapore Daisy	h,w	3
Tagetes minuta	Stinking Roger	h,w	-
Agavaceae			

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPR)
Agave sp.	Agave	w,p	-
Avicenniaceae			
Avicennia marina [n]	Grey Mangrove	t	-
Boraginaceae			
Heliotropium amplexicaule	Blue Heliotrope	h,w	-
Cactaceae			
Opuntia sp.	Prickly Pear	s,w	2
Casuarinaceae			
*Casuarina equisetifolia**	Coastal Sheoak	t	-
*Allocasuarina littoralis**	Black Sheoak	t	-
Caesalpiniaceae			
Crotalaria paniculata	Poor Mans Gold	h	-
Senna pendula var *glabrifolia*	Easter Cassia	s,w	-
Commelinaceae			
Commelina diffusa (C. cyanea)	Wandering Jew	h,w	-
Convolvulaceae			
Cuscuta campestris	Dodder	v,w	-
Convolvulus arvensis	European Bindweed	h,w	-
Ipomoea sp. (alba)		v,w	-
Ipomoea cairica	Mile-a-Minute	v,w	-
Ipomoea pes-caprae [n]	Goats Foot Convolvus	v	-
Cyperacea			
Carex appressa[n]	Tall Sedge	g	-
Cyperus sp.	A sedge	a,w	-
Cyperus congestus	Clustered Flatsedge	a,w	-
Cyperus eragrostis	Umbrella Sedge	a,w	-
Cyperus rotundus	Nut Grass	g,w	-
Cyperus polystachyos	Bunchy Sedge	g,w	-
Euphorbiaceae			
Chamaesyce maculata	Caustic weed	h,w	-
Euphorbia hirta	Asthma Plant	h,w	-
Euphorbia prostrata	Caustic Creeper	h,w	-
Euphorbia sp.	Spurge	h,w	-
Macaranga tanarius [n]	Macaranga	t (p)	-
Phyllanthus virgatus	Creeping Phyllanthus	h,w	-
Fabaceae			
Crotalaria pallida	Rattle Pod	h,w	-
Desmodium uncinatum	Silver-Leafed Desmodium	v,w	-
Macroptilium atropurpureum	Siratro	v,w	-
Macroptilium lathyroides	Phasey Bean	v,w	-
Medicago sativa	Lucerne	h,w	-
Medicago polymorpha	Burr Medic	h,w	-
Melilotus indicus	Sweet Melilotus	h,w	-

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPR)
Neonotonia wightii	Glycine	v,w	-
Sesbania cannabina	Sesbania Pea	h,w	-
Trifolium repens	White Clover	h,w	-
Vigna marina[n]	Yellow Beach Bean	h	-
Lauraceae			
Cinnamomum camphora	Camphor Laurel	t,w	3
Malvaceae			
Hibiscus tiliaceus [n]	Cotton Tree	t	-
Modiola caroliniana [n]	Red Flower Mallow	h,w	-
Sida cornifolia	Flannel Weed	h,w	-
Sida rhombifolia	Common Sida	h,w	-
Mimosaceae			
Acacia aulacocarpa [n]	Hickory Wattle	t	-
Myrtaceae			
Eucalyptus robusta [n]	Swamp Mahogany	t,(p)	-
Lophostemon confertus [n]	Brush Box	t,(p)	-
Melaleuca linariifolia [n]	Flax-Leafed Paperbark	t,(p)	-
Melaleuca quinquenervia [n]	Paperbark Teatree	t,(p)	-
Onagraceae			
Oenothera drummondii [n]	Beach Evening Primrose	s	-
Oxalidaceae			
Oxalis corniculata	Creeping Oxalis	h,w	-
Pandanaceae			
Pandanus tectorius [n]	Screw Pine	t,(p)	-
Passifloraceae			
Passiflora cairica	Stinking Passion Vine	v,w	-
Passiflora subpeltata	White Passion Vine	v,w	-
Plantaginaceae			
Plantago lanceolata	Lamb's Tongue	h,w	-
Plantago major	Great Plantain	h,w	-
Poaceae			
Brachiaria decumbens	Signal Grass	g,w	-
Brachiaria mutica	Para Grass	g,w	-
Cenchrus ciliaris	Buffel Grass	g,w	-
Cenchrus echinatus	Mossman River Grass	g,w	-
Chloris gayana	Rhodes Grass	g,w	-
Chloris truncata	Windmill Grass	g,w	-
Chloris virgata	Feather-Top Rhodes Grass	g,w	-
Cynodon dactylon	Couch Grass	g,w	-
Dichanthium aristatum	Angleton Grass	h,w	-
Digitaria ciliaris	Summer Grass	g,w	-
Eleusine indica	Crowsfoot Grass	g,w	-
Hemarthria uncinata	Mat Grass	g,w	-

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPR)
Imperata cylindrica [n]	Blady Grass	g	-
Melinis repens	Red Natal Grass	g,w	-
Melinis minutifolia	Molasses Grass	g,w	-
Poa annua	Winter Grass	g,w	-
Panicum effusum	Hairy Ganic	g	-
Panicum maximum	Green Panic	g,w	-
Paspalum dilatatum	Paspalum	g,w	-
Phragmites australis [n]	Common Reed	g	-
Sorghum halepense [n]	Johnson Grass	g,w	-
Typha orientalis [n]	Typha	g	-
Urochloa mosambicenis	Sabi Grass	g,w	-
Portulacaceae			
Portulaca pilosa	Hairy Pigweed	h,w	-
Primulacea			
Anagallis arvensis	Scarlet Pimpernel	h,w	-
Proteaceae			
Banksia integrifolia [n]	Coastal Banksia	t (p)	-
Sapindaceae			
Cardiospermum halicacabum	Balloon Vine	v,w	-
Cupaniopsis anacardioides [n]	Tuckeroo	t	-
Dodonaea triquetra	Hop Bush	s	-
Solanaceae			
Solanum nigrum	Brazilian Nightshade	s,w	-
Ulmaceae			
Celtis sinensis	Chinese Celtis	t,w	-
Verbenaceae			
Lantana camara	Lantana	s,w	3
Lantana montevidensis	Creeping Lantana	w	3
Verbena bonariensis	Purple Top	h,w	-
Verbena aristigera		h,w	-
Vitex trifolia var trifolia [n]		s	-
Lantana montevidensis	Creeping Lantana	v,w	3

Appendix C: Weed Target List (AQIS)

FAMILY	GENUS SPECIES	AUTHOR	COMMON NAME	COMMENTS
Amaranthaceae	*Amaranthus dubius*	Mart. ex Thell	Chinese Spinach	annual crops, rice, gardens, disturbed sites and secondary vegetation.
Asteraceae	*Austroeupatorium inulaefolium*	(H.B.K.) King and Robinson		tea, rubber, rosella and other plantation crops; roadsides; environmental weed in secondary forests.
Asteraceae	*Chromolaena odorata*	(L.) King and Robinson	Siam Weed, Christmas Bush	pastures, oil palm, rubber, coffee, cashew, fruit, maize, forestry. Toxic to livestock. Major environmental weed: secondary forests, roadsides, disturbed sites.
Asteraceae	*Mikania cordata*	(Burm. f.) B.L. Robinson		rubber, coffee, banana, cocoa and oil palm plantations, pastures; potential environmental weed
Asteraceae	*Mikania micrantha*	H.B.K.	Mile-a-Minute	cocoa, coconut, orchards, rubber, oil palm, sugarcane, vegetables, upland rice, pastures; serious environmental weed
Capparaceae	*Cleome rutidosperma*	DC.	Spiderflower	crops including vegetables, bananas, maize, tobacco, watermelons, cocoa, pineapples and coconuts; weed of disturbed ground and immature plantations.
Cyperaceae	*Fimbristylis umbellaris*	(Lam.) Vahl	Globular Fimbristylis	rice, pastures; swamps.
Cyperaceae	*Schoenoplectus juncoides*	(Roxb.) Palla		rice, freshwater and tidal swamps.
Cyperaceae	*Scirpus maritimus*	L.		rice, freshwater and tidal swamps.
Equisetaceae	*Equisetum ramosissimum*	Desf. subsp. debile (Vauch.) Hauke	Horsetail, Scouring Rush	rice terraces and bunds, tea plantations.
Eriocaulaceae	*Eriocaulon truncatum*	Buch. - Ham. ex Mart		rice, wetlands, river banks and floodplains
Euphorbiaceae	*Croton hirtus*	L'Herit		rubber plantations; crops including mung beans, peanuts, soybeans, papaya, vegetables and tobacco.
Fabaceae	*Mucuna pruriens*	DC.	Velvet Bean, Cow-Itch	weed of pastures and a wide range of dryland crops; smothering habit and ability to climb to tree tops makes a significant potential environmental weed. Irritant hairs can kill livestock if ingested and cause severe skin reaction if touched.
Haloragaceae	*Myriophyllum spicatum*	L.	Eurasian Watermilfoil	serious weed of lakes, water-storages, canals and rivers. Affects fish and shellfish production and recreational use of water bodies
Lamiaceae	*Hyptis brevipes*	Poit.	Lesser Roundweed	plantation crops, orchards, vegetables rice; secondary forest, and disturbed sites in areas of high rainfall.

FAMILY	GENUS SPECIES	AUTHOR	COMMON NAME	COMMENTS
Limnocharitaceae	*Limnocharis flava*	(L.) Buchenau	Yellow Bur-head, Yellow Sawah Lettuce	serious weed of rice and wetlands. Used as a green vegetable.
Lythraceae	*Rotala indica*	(Willd.) Koehne	Toothcup	rice fields, river banks, ditches and moist environments
Melastomaceae	*Clidemia hirta*	(L.) D. Don.	Koster's Curse, Soap Bush	cocoa, tea, coconut, oil palm and rubber plantations, cultivated areas, pastures, secondary forest and woodlands; other disturbed sites.
Myrtaceae	*Rhodomyrtus tomentosa*	(Ait.) Hassk.	Downy Rose Myrtle	environmental weed; pastures, rangelands and untended areas.
Nyctaginaceae	*Boerhavia erecta*	L.		peanuts, sorghum, rice and other annual crops; weed of cultivated land, pastures and coastal environments.
Piperaceae	*Piper aduncum*	L.		weed of grazing lands and secondary forest, roadsides; environmental weed.
Poaceae	*Brachiaria paspaloides*	(Presl.) C.E. Hubb	Common Brachiaria, Thurston Grass	orchards, tea, coffee, rice, lawns, roadsides, disturbed sites.
Poaceae	*Coix aquatica*	Roxb.	Job's Tears	serious weed of waterways, rice
Poaceae	*Digitaria fuscescens*	(Presl.) Henr.	Common Crabgrass	tobacco, vegetables, rubber, rice; pastures, disturbed sites, roadsides, coastal dunes, dry forests.
Poaceae	*Digitaria insularis*	(L.) Mes ex Ekman		pineapples; unpalatable weed of pastures, headlands,
Poaceae	*Echinochloa glabrescens*	Munro ex Hook. f.	A barnyard grass	rice, maize.
Poaceae	*Echinochloa stagnina*	(Retz) Beauv.		rice; lakes, rivers, wetlands; roadsides, open places. Potential major environmental weed.
Poaceae	*Eriochloa polystachya*	H.B.K.	Carib Grass	rice, riverbanks, swamps, drains and ditches; suppresses other vegetation.
Poaceae	*Ischaemum timorense*	Kunth.	Centipede Grass	cloves, cocoa, rubber, coconut, oil palm, sugarcane and rice plantations; weed of roadsides, ditches, forest margins.
Poaceae	*Leptochloa chinensis*	(L.) Nees.	Red Sprangletop, Feathergrass	rice, cotton, soybean, maize, sugarcane, pineapple, sweet potato, vegetables, peanuts, tea, bananas.
Poaceae	*Leptochloa panicea*	(Retz.) Ohwi	Sprangletop	rice, cotton, soybeans, peas, sugarcane, maize, peanuts, pastures.
Poaceae	*Sacciolepis interrupta*	(Willd.) Stapf.		rice, irrigation channels, wetlands. Potential environmental weed.
Rubiaceae	*Diodia sarmentosa*	Sw.		coffee, tea, leucaena, Stevia sp. plantations.
Rubiaceae	*Paederia foetida*	L.	Lesser Malayan Stinkwort	sugarcane, secondary forest; climbs over shrubs and trees - potential environmental weed.
Rubiaceae	*Spermacoce assurgens*	Ruiz & Pav.		rice, maize, coconuts, sugarcane, bananas, pasture, gardens, forest clearings

FAMILY	GENUS SPECIES	AUTHOR	COMMON NAME	COMMENTS
Rubiaceae	*Spermacoce mauritiana*	Gideon		invades tracks in primary rainforest; rice, sugarcane, gardens, lawns.
Salviniaceae	*Salvinia cucullata*	Roxb.	Salvinia	rice, waterways, wetlands.
Salviniaceae	*Salvinia natans*	(L.) All.	Salvinia	rice, waterways wetlands.
Scrophulariaceae	*Striga angustifolia*	(D. Don.) C.J. Saldanha	Witchweed	root parasite on rice, sorghum, sugarcane.
Scrophulariaceae	*Striga asiatica*	(L.) O. Ktze.	Witchweed	serious root parasite on rice, maize, sorghum, sugarcane, millet; also on some broadleaf crops including sunflower, tomatoes, some legumes.
Violaceae	*Hybanthus attenuatus*	(Humb. & Bonpl.) G.K. Schulze		rice, a wide diversity of annual crops, pastures, waste places.

Source: http://www.affa.gov.au

Appendix D: Land Protection Regulations 2003 - Classes

The following table contains a list of species recorded from Lucinda Drain and which have been listed in Schedule 2 of the *Land Protection (Pest and Stock Route Management) Regulations* 2003.

CLASS	SPECIES
Class 1 pests	▪ No species recorded
Class 2 pests	▪ Groundsel Bush - *Baccharis halimifolia* ▪ Prickly Pear - *Opuntia spp.* ▪ Annual Ragweed – *Ambrosia artemisiifolia* ▪ Parthenium Weed (*Parthenium hysterophorus*)
Class 3 pests	▪ Broad-leafed Peppertree – *Schinus terebinthifolia* ▪ Camphora Laurel – *Cinnamomum camphora* ▪ Lantana – *Lantana camara* ▪ Singapore Daisy – *Sphagneticola trilobata* ▪ Creeping Lantana (*Lantana montevidensis*)

Appendix E: Plant Survey Data Sheet

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPA)	PRESENCE	ABUNDANCE
Aizoaceae					
Carpobrotus glaucescens [n]	Pigface	v	-		
Sesuvium portulacastrum [n]	Sea Purslane	h	-		
Amaranthaceae					
Alternanthera pungens	Khaki Weed	h,w	-		
Amaranthus quitensis	South American Amaranthus	h.w	-		
Amaranthus viridis	Green Amaranthus	h,w	-		
Gomphrena celosoides	Gomphrena Weed	h,w	-		
Anacardiaceae					
Schinus terebinthifolia	Broad-leaved Peppertree	s,w	3		
Asclepiadaceae					
Gomphocarpus physocarpus	Balloon Cotton Bush	s,w	-		
Asparagaceae					
Asparagus aethiopicus cv. Sprengeri	Asparagus Fern	v,w	3		
Asteraceae					
Ageratum houstonianum	Blue Billy-Goat	h,w	-		
Ambrosia artemisiifolia	Annual Ragweed	h,w	2		
Baccharis halimifolia	Groundsel Bush	s,w	2		
Bidens pilosa	Cobblers Pegs	h,w	-		
Calyptocarpus vialis	Creeping Cinderella Weed	h,w	-		
Cirsium vulgare	Spear Thistle	h,w	-		
Conyza bonariensis	Flaxleaf Fleabane	h,w	-		
Conyza pusilla	Canadian Fleabane	h,w	-		
Crassocephalum crepidioides	Thickhead	h,w	-		
Emilia sonchifolia	Emilia	h,w	-		
Hypochaeris radicata	Flatweed	h.w	-		
Parthenium hysterophorus	Parthenium Weed	h,w	2		
Senecio sp (lautus)	Fireweed	h	-		
Sonchus oleraceus	Rough Sow Thistle	h,w	-		
Sphagneticola trilobata	Singapore Daisy	h,w	3		
Tagetes minuta	Stinking Roger	h,w	-		
Agavaceae					
Agave sp.	Agave	w,p	-		
Avicenniaceae					
Avicennia marina [n]	Grey Mangrove	t	-		
Boraginaceae					
Heliotropium amplexicaule	Blue Heliotrope	h,w	-		
Cactaceae					
Opuntia sp.	Prickly Pear	s,w	2		
Casuarinaceae					
*Casuarina equisetifolia**	Coastal Sheoak	t	-		

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPA)	PRESENCE	ABUNDANCE
*Allocasuarina littoralis**	Black Sheoak	t	-		
Caesalpiniaceae					
Crotalaria paniculata	Poor Mans Gold	h	-		
Senna pendula var *glabrifolia*	Easter Cassia	s,w	-		
Convolvulaceae					
Cuscuta campestris	Dodder	v,w	-		
Convolvulus arvensis	European Bindweed	h,w	-		
Ipomoea sp. (alba)		v,w	-		
Ipomoea cairica	Mile-a-Minute	v,w	-		
Ipomoea pes-caprae [n]	Goats Foot Convolvus	v	-		
Cyperaceae					
Cyperus congestus	Clustered Flatsedge	a,w	-		
Cyperus eragrostis	Umbrella Sedge	a,w	-		
Euphorbiaceae					
Chamaesyce maculata	Caustic Weed	h,w	-		
Euphorbia hirta	Asthma Plant	h,w	-		
Euphorbia prostrata	Caustic Creeper	h,w			
Euphorbia sp.	Spurge	h,w	-		
Macaranga tanarius [n]	Macaranga	t (p)	-		
Phyllanthus virgatus	Creeping Phyllanthus	h,w	-		
Fabaceae					
Crotalaria pallida	Rattle Pod	h,w	-		
Desmodium uncinatum	Silver-leafed Desmodium	v,w	-		
Macroptilium atropurpureum	Siratro	v,w	-		
Macroptilium lathyroides	Phasey Bean	v,w	-		
Medicago polymorpha	Burr Medic	h,w			
Medicago sativa	Lucerne	h,w	-		
Melilotus indicus	Sweet Melilotus	h,w	-		
Neonotonia wightii	Glycine	v,w	-		
Sesbania cannabina	Sesbania Pea	h,w	-		
Trifolium repens	White Clover	h,w	-		
Lauraceae					
Cinnamomum camphora	Camphor Laurel	t,w	3		
Malvaceae					
Hibiscus tiliaceus [n]	Cotton Tree	t	-		
Modiola caroliniana [n]	Red Flower Mallow	h,w	-		
Sida cornifolia	Flannel Weed	h,w	-		
Sida rhombifolia	Common Sida	h,w	-		
Mimosaceae					
Acacia aulacocarpa [n]	Hickory Wattle	t	-		
Myrtaceae					
Eucalyptus robusta [n]	Swamp Mahogany	T,(p)	-		
Lophostemon confertus [n]	Brush Box	T,(p)	-		

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPA)	PRESENCE	ABUNDANCE
Melaleuca linariifolia [n]	Flax-leafed Paperbark	t,(p)	-		
Melaleuca quinquenervia [n]	Paperbark Teatree	T,(p)	-		
Onagraceae					
Oenothera drummondii [n]	Beach Evening Primrose	s	-		
Oxalidaceae					
Oxalis corniculata	Creeping Oxalis	h,w	-		
Pandanaceae					
Pandanus tectorius [n]	Screw Pine	t,(p)	-		
Passifloraceae					
Passiflora cairica	Stinking Passion Vine	v,w	-		
Passiflora subpeltata	White Passion Vine	v,w	-		
Plantaginaceae					
Plantago lanceolata	Lamb's Tongue	h,w	-		
Plantago major	Great Plantain	h,w	-		
Poaceae					
Brachiaria decumbens	Signal Grass	g,w	-		
Brachiaria mutica	Para Grass	g,w	-		
Cenchrus ciliaris	Buffel Grass	g,w	-		
Cenchrus echinatus	Mossman River Grass	g,w	-		
Chloris gayana	Rhodes Grass	g,w	-		
Chloris truncata	Windmill Grass	g,w	-		
Chloris virgata	Feather-top Rhodes Grass	g,w	-		
Cynodon dactylon	Couch Grass	g,w	-		
Dichanthium aristatum	Angleton Grass	h,w	-		
Digitaria ciliaris	Summer Grass	g,w	-		
Eleusine indica	Crowsfoot Grass	g,w	-		
Hemarthria uncinata	Mat Grass	g,w	-		
Imperata cylindrica [n]	Blady Grass	g	-		
Melinis repens	Red Natal Grass	g,w	-		
Melinis minutifolia	Molasses Grass	g,w	-		
Poa annua	Winter Grass	g,w	-		
Panicum effusum	Hairy Panic	g	-		
Panicum maximum	Green Panic	g,w	-		
Paspalum dilatatum	Paspalum	g,w	-		
Phragmites australis [n]	Common reed	g	-		
Sorghum halepense [n]	Johnson grass	g,w	-		
Typha orientalis [n]	Typha	g	-		
Urochloa mosambicenis	Sabi Grass	g,w	-		
Portulacaceae					
Portulaca pilosa	Hairy pigweed	h,w	-		
Primulaceae					
Angallis arvensis	Scarlet Pimpernel	h,w	-		
Proteaceae					

FAMILY/SPECIES	COMMON NAME	FORM	DECLARATION CATEGORY (LPA)	PRESENCE	ABUNDANCE
Banksia integrifolia [n]	Coastal Banksia	t (p)	-		
Sapindaceae					
Cardiospermum halicacabum	Balloon Vine	v,w	-		
Cupaniopsis anacardioides [n]	Tuckeroo	T	-		
Dodonaea triquetra	Hop Bush	s	-		
Solanaceae					
Solanum nigrum	Brazilian Nightshade	s,w	-		
Verbenaceae					
Lantana camara	Lantana	s,w	3		
Lantana montevidensis	Creeping Lantana	w	3		
Verbena bonariensis	Purple Top	h,w	-		
Verbena aristigera		h,w	-		
Vitex trifolia var trifolia [n]		s	-		