



Department of  
Transport



# Swan Canning Riverpark

## Mooring Management Program

June 2015



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# Definitions

<b>Courtesy Mooring</b>	A mooring administered by the Swan River Trust under the Mooring Regulations 1998 and regulation 27 of the Swan and Canning Rivers Management Regulations 2007.
<b>Emergency Mooring</b>	A mooring administered by the Department of Transport for use in emergency situations under the Mooring Regulations 1998.
<b>Licensee</b>	Person or entity that holds the licence for the licensed mooring or mooring area or jetty.
<b>Licensed Mooring</b>	An individual mooring within a Mooring Control Area that is licensed under regulation 12 of the Mooring Regulations 1998.
<b>Mooring Control Area</b>	An area declared under section 10 of the <i>Shipping and Pilotage Act 1967</i> . The entire Swan and Canning Rivers is a declared Mooring Control Area.
<b>Mooring Licence Area</b>	An area that has a mooring licence under section 65 of the <i>Western Australian Marine Act 1982</i> that allows multiple moorings within the licence area.
<b>Mooring Zone</b>	Agreed areas under this Mooring Management Program where moorings are permitted within the Riverpark. Refer Appendix 1.
<b>Swing Mooring</b>	A mooring with one point (buoy) of connection to the vessel.
<b>Jetty Licence</b>	A licence issued to a jetty, pier, wharf, grid, slip, landing, place, stage platform (other than a platform that is a vessel for the purposes of the <i>Western Australian Marine Act 1982</i> ) or similar structure whether fixed or floating erected wholly or in part on or over any waters.
<b>Jetty &amp; Mooring Licence</b>	A combined licence issued under Section 65 of the <i>Western Australian Marine Act 1982</i> and Section 7 of the <i>Jetties Act 1926</i> . The licence provides approval for the construction of the jetty and mooring of vessels.
<b>Environmentally Friendly Mooring</b>	Mooring apparatus designed to ensure minimal contact and impact on riverbed.

# Part 1 Purpose

The Swan River Trust (the Trust) and the Department of Transport (DoT) share responsibility for the management of swing moorings within the Swan Canning Riverpark (Riverpark). This Mooring Management Program (MMP) has been prepared in partnership between the DoT and the Trust pursuant to section 53 of the *Swan and Canning Rivers Management Act 2006* (SCRM Act).

The MMP formalises the approvals process and management of swing moorings between the Trust and DoT. The MMP is consistent with the *Draft River Protection Strategy* (Swan River Trust, 2011).

The MMP provides parameters with regard to the management of swing moorings within the Riverpark. To the extent that the MMP is satisfied, both in day-to-day management and regarding any material changes involving swing moorings as described herein, development approvals under Part 5 of the SCRM Act will not be required by the DoT. A permit issued under the Swan and Canning Rivers Management Regulations 2007 (SCRM Regulations) will be required for activities such as relocating and installing swing moorings.

The MMP provides a regime for managing swing moorings in the Riverpark that supports the sustainable management of the Riverpark to meet both the DoT's and the Trust's mandate. The MMP will formalise and streamline current arrangements and provide certainty for mooring licensees, as well as the Trust and DoT, regarding approvals required for swing moorings in the Riverpark.

The MMP will come into effect from a date to be specified in the gazettal notice, for a term of five years, following the approval of the Minister for Environment.

## Objectives

1. To promote and facilitate coordinated management of swing moorings within the Riverpark;
2. To ensure that management of swing moorings is aligned with the protection of ecological and community benefit and amenity values of the Riverpark; and
3. To set parameters on the management of swing moorings within the Riverpark.

## Background

Swing moorings have been an accepted historical practice for storing boats on the Swan and Canning Rivers. With increasing demand for access to swing moorings on the rivers, the DoT, in consultation with the Trust, introduced a licensing regime in 1998 to manage access to and demand for swing moorings.

The entire Riverpark is a declared Mooring Control Area (MCA) as per section 10 of the *Shipping and Pilotage Act 1967*. There were 18 mooring zones informally established in the Riverpark where swing moorings had historically been installed in large numbers. An informal agreement between the DoT and the Trust has restricted the issuing of licensed moorings to individuals within these mooring zones.

In addition to these informal mooring zones, a number of mooring licence areas were issued, predominately to yacht clubs (see Appendix 1). These mooring licence areas allow clubs to provide a limited number of swing moorings within the licence area.

# Part 2 Legislative Framework

Various Acts and Regulations establish the roles and responsibilities of the Trust and the DoT. These directly affect the management of the Riverpark and moorings within it.

Policies and various management strategies have also been developed by the agencies that have an influence on the management of moorings.

## Swan River Trust

The Trust is charged with the protection of the Swan and Canning Rivers and associated land, pursuant to the SCRM Act. The SCRM Act vests the River reserve in the Trust as well as establishing the Riverpark that the Trust manages. The Riverpark and the Development Control Area (DCA) are land and waters as defined in sections 9 and 10 of the SCRM Act.

Among the Trust's various functions and powers (section 23) is the control of activities and development within the DCA. Accordingly, Part 5 of the SCRM Act outlines the role of the Trust in approving all development within the DCA. This is in conjunction with the SCRM Regulations that defines whether various activities constitute development and require a Part 5 approval from the Minister for Environment, or can be approved under the SCRM Regulations through a permit from the Trust.

Moorings are a form of development and therefore would normally be the subject of Part 5 development control pursuant to section 70. However, the SCRM Regulations provide that works or activities carried out by Schedule 5 authorities in accordance with an approved management program do not require assessment under Part 5 of the SCRM Act. The Trust is empowered to provide a permit to the DoT based on the approved MMP.

## Department of Transport

The DoT is charged with ensuring the safe and sustainable use of Western Australian navigable waters pursuant to the *Western Australian Marine Act 1982* (WAMA), its subsidiary regulations, and other applicable legislation.

DoT is the appointed "controlling authority" to administer the Mooring Control Area in the Swan and Canning Rivers declared under section 10(2) of the *Shipping and Pilotage Act 1967*. DoT may issue a licence pursuant to section 65 of the *Western Australian Marine Act 1982*, which allows DoT to administer these mooring licences in accordance with the Mooring Regulations 1998.

## Other applicable documents

These documents include strategies, policies, and guidelines that influence or deal with peripheral issues associated with swing moorings within the Riverpark, including boat maintenance and dinghy storage on the foreshore. The agencies refer to and abide by these and other relevant documents.

- *Draft River Protection Strategy* (SRT, 2011)
- *Sharing the Rivers: Swan Canning Riverpark Aquatic Use Review and Management Framework Draft* (DoT and SRT, 2011);
- *Boating Management Strategy for the Swan Canning Riverpark* (SRT, 2009)
- *Policy SRT/DE15 Yacht Clubs with Slipways, Boat Pens, Water Lease and Jetty Licence* (SRT, 2001); and
- *Policy SRT/D26 Dinghy Management along the Swan Canning Riverpark Shoreline* (SRT 2010).

These documents are available on the website of the Swan River Trust ([www.swanrivertrust.wa.gov.au](http://www.swanrivertrust.wa.gov.au)).



# Part 3 Agency Roles and Responsibilities

There are various administrative roles and responsibilities of the Trust and the DoT regarding swing moorings within the Riverpark.

The MMP will be administered by the Trust in partnership with the DoT.

## Swan River Trust

The Trust assesses the MMP and ensures that the program aligns to the objectives of the SCRM Act. The Trust can recommend approval of the program by the Minister for Environment. The Trust must review the MMP five years from the commencement of the MMP.

The Trust will manage any moorings for which it is a licensee in accordance with this MMP.

## Department of Transport

The DoT has responsibility for the day-to-day management of licensed moorings and mooring licence areas pursuant to the Mooring Regulations 1998 and *Western Australian Marine Act 1982* respectively. The MMP outlines the parameters of management.



# Part 4 Mooring Administration

All swing moorings in the Riverpark are required to be administered as per this MMP and in line with the relevant legislation, policies, and guidelines of each organisation.

## Licensed Moorings

The majority of individual licensed moorings are within mooring zones (see Table 1). They are administered by the DoT (Marine Safety Business Unit) in accordance with Mooring Regulations 1998. A licence is granted to an individual or entity for a specific location with various conditions and responsibilities attached to the licensee including maintenance of the mooring infrastructure. A mooring licence does not confer 'ownership' of a mooring, only allowing the licence holder the right to use and access the site.

Under this arrangement, any licensed moorings now existing outside of the formalised mooring zones (Appendix 1) under the MMP will be offered sites within the agreed zones as and when they become available.

## Mooring Licence Areas and Moorings in Leased Areas

A mooring licence area is a defined area within which the licence holder can have swing moorings. These are administered by the DoT (Coastal Infrastructure Business Unit) in accordance with Section 65 of the *Western Australian Marine Act 1982*.

Some organisations such as yacht clubs that hold waterbed leases have established moorings within their leases. The leases are also administered by the DoT's Coastal Infrastructure Business Unit on behalf of the Trust. All organisations with jetties where boats are moored have a jetty and mooring licence rather than a mooring licence area.

Consistent with practice around the State, the placement and number of individual moorings in mooring licence areas and leased areas has not been previously controlled by DoT.

In the future, DoT will require a variation to jetty and mooring licences and mooring area licences in the Riverpark when they are renewed. The variation will acknowledge the MMP and its requirements and will specify the current number of moorings within the lease and mooring licence areas.

The licensee or its agent would however continue to require approval from the Trust for the installation or the relocation of moorings in those areas as is currently the case.

Table 2 records the current estimated number of moorings within mooring licence areas and waterbed leases in the Swan and Canning rivers. It is assumed that when they were installed the moorings received any required approvals and complied with the applicable standards.

Unless approval is granted by the Trust, the number of moorings in mooring licence areas and lease areas will be limited to those shown in Table 2.

## Emergency Moorings

The DoT has placed a number of emergency moorings within the Riverpark. Some of these are within mooring zones and some are outside. These are administered and maintained by the DoT (Marine Safety Business Unit). The emergency moorings are used to secure vessels that may have come off private moorings or been left on a licensed mooring illegally. There are 10 emergency moorings in the Riverpark. The DoT is also the licensee of the emergency moorings under the Mooring Regulations 1998. There is high demand for access to these moorings and this MMP allows for additional emergency moorings up to a total of 20.

The DoT will consult with the Trust and reach agreement as to the placement of additional emergency moorings.

## Courtesy Moorings

A number of courtesy moorings have been installed by the Trust in the Riverpark. These are maintained by the Trust, which is the licensee of these moorings under the Mooring Regulations 1998. These moorings allow both commercial and recreational boat owners to moor, without having to drop anchor, for a maximum of four hours during the day, and overnight between sunset and sunrise. Their use is outlined by regulation 24 of the SCRM Regulations. There are currently 33 courtesy moorings installed at locations throughout the Riverpark. There is a high demand for access to these moorings in peak periods and this MMP allows additional courtesy moorings to be established up to a total of 50.

The Trust will consult with the DoT and reach agreement as to the establishment of additional courtesy moorings.

The DoT maintains courtesy moorings in other Mooring Control Areas across Western Australia. The transfer of the management of the Riverpark courtesy moorings from the Trust to the DoT may occur at some point in the future under mutual agreement. This change in management is allowable under the terms of this MMP.

# Part 5 Agreed Parameters for Mooring Management

There are agreed principles and parameters for the management of individual moorings as well as mooring zones and mooring licence areas within the Riverpark.

Any intention to depart from these agreed parameters will require negotiation between the Trust and the DoT. Such changes may or may not require the development of a new MMP or other form of development approval.

## Mooring Apparatus

Only single point swing moorings are permitted under this MMP. A request to install any other design of mooring will require an amendment to the MMP and possibly separate assessment under the SCRM Act.

All new reallocated or replaced moorings are to be environmental friendly moorings with no apparatus other than the anchoring system on the Riverbed.

## Mooring Zones

Mooring zones within the Riverpark are listed in Table 1. There will be no increase to the agreed boundaries or areas of mooring zones as shown in Appendix 1.

**Table 1 – List of Mooring Zones**

Location	Plan #
North Fremantle	687 – 29 – 01 - B
Leeuwin	687 – 32 – 01 - A
Oyster Beds	687 – 35 – 01 - A
East Fremantle	687 - 27 – 01 - B
Blackwall Reach	687 – 21 – 01 - A
Mosman Bay – South	687 – 26 – 01 - A
Mosman Bay – North	687 – 28 – 02 – A
Peppermint Grove	687 – 30 – 01 – B
Claremont	687 – 19 – 01 – A
Dalkeith	687 – 34 – 01 – B
Nedlands	687 – 33 – 01 – A
Matilda Bay	687 – 22 – 01 – A
Maylands	687 – 25 – 01 – A
Canning Bridge to South of Perth Yacht Club	687 – 24 – 01 – A
Canning Bridge to Deepwater Point	687 – 31 – 01 – A
Bull Creek	687 – 23 – 01 - A

No new mooring zones will be allowed within the Riverpark under this MMP. Any request for additional mooring zones will require an amendment to the MMP and possibly a separate assessment under the SCRM Act.

## Mooring Numbers

The maximum permitted number of licensed moorings in mooring zones is outlined in Table 2 below. Where a zone is listed separately, the number of moorings in that zone is capped. The current number of swing moorings in waterbed lease areas and mooring licence areas is also shown. Any increase in those numbers will require specific approval from the Trust.

**Table 2 – Mooring numbers**

<b>Mooring Category</b>	<b>Maximum Number</b>	<b>Responsible Agency</b>
Mooring Zones	1230 (including Bullcreek)	Department of Transport (Marine Safety Business Unit)
Bull Creek	125	
<u>Mooring Licence Areas</u>	Estimated Numbers	Department of Transport (Coastal Facilities Business Unit)
Claremont Yacht Club	18	
East Fremantle Yacht Club	17	
Royal Freshwater Bay Yacht Club	29	
<u>Moorings in Waterbed Lease Areas</u>	Estimated Numbers	Department of Transport (Coastal Facilities Business Unit)
Royal Perth Yacht Club	10	
Nedlands Yacht Club	25	
Mounts Bay Sailing Club	9	
South of Perth Yacht Club	10	
Perth Flying Squadron Yacht Club	0	
Fremantle Rowing Club	1	
Swan Canoe Club	0	
Fremantle Sea Scouts	6	
Pelican Point Sea Scouts	11	
Christ Church Grammar School	0	
Emergency Moorings	20	Department of Transport (Marine Safety Business Unit)
Courtesy Moorings	50	Swan River Trust

## General Management

No new licensed moorings will be allocated for sites outside the agreed mooring zones.

No new mooring licence areas will be allocated or issued.

It is recognised that a number of licensed moorings have been installed outside of the agreed zones identified in Appendix 1 prior to this MMP taking effect. DoT will offer the licensees of these moorings sites within the agreed zones as and when they become available. If an application is received to transfer a mooring, DoT will condition the transfer (where possible) on moving the mooring into a mooring zone.

# Part 6 Reporting Requirements

DoT will provide annual reports based on the financial year to the Trust in an agreed format no later than 31 August each year. Special meetings can also occur between the two parties to deal with specific MMP matters. This report will include updates on current numbers of moorings installed per mooring category and the number of licensed moorings outside mooring zones. The report will also outline any changes made to standard mooring licence terms and conditions. The Trust may request further information on any issues related to moorings management be included in the reports.

# Part 7 Review and Amendment

The MMP will be subject to review after the fifth anniversary of the date of its operation and following the expiry of each five yearly interval thereafter. Amendments can be made, if required, prior or during a review in line with the process outlined in the SCRM Act. If it is determined no amendments are necessary during the review, it may be agreed that the MMP is to continue in force without amendment.

# Appendices

1. Map of Agreed Mooring Zones and licence Areas



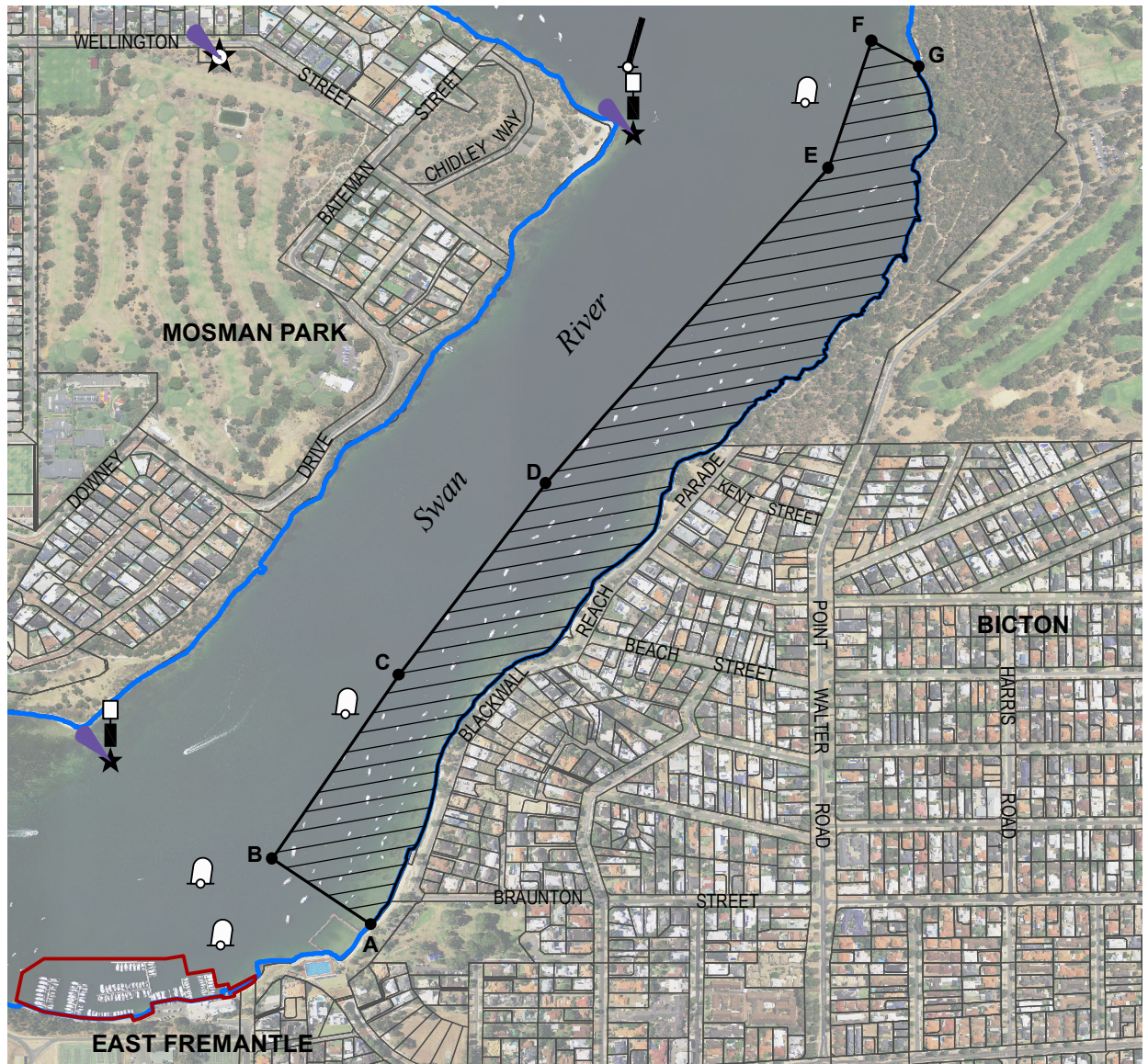
# SWAN RIVER BLACKWALL REACH MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 1.677'	115° 46.677'
B	32° 1.620'	115° 46.592'
C	32° 1.460'	115° 46.701'
D	32° 1.294'	115° 46.829'
E	32° 1.020'	115° 47.074'
F	32° 0.909'	115° 47.112'
G	32° 0.932'	115° 47.153'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-21-01A.  
AREA, 22.62 HECTARES



## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)

Drawn by: S Salgado

Date: 28 April 2015

Examined by Manager Cartography:

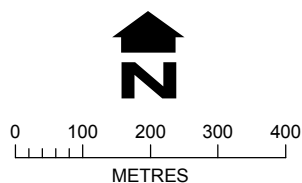
D Daws: *D. Daws*

Date: *28 April 2015*

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Department of  
Transport



PLAN 687 - 21 - 01 - A



# SWAN RIVER MATILDA BAY MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)	NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 58.739'	115° 49.271'	E	31° 59.013'	115° 49.327'
B	31° 58.739'	115° 49.437'	F	31° 58.937'	115° 49.361'
C	31° 58.933'	115° 49.430'	G	31° 58.898'	115° 49.304'
D	31° 59.056'	115° 49.372'	H	31° 58.901'	115° 49.273'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-22-01A.  
AREA, 10.81 HECTARES



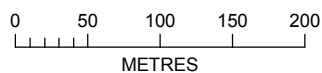
## Legend

	Mooring Zone		Closed Waters (Motorised Vessels)
	Cadastre		Lease Boundary
	Mooring Licence Area		Coastline (Landgate 2012)

SUBJECT TO SURVEY

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CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado

Date: 7 April 2015

Examined by Manager Cartography:

D Daws: *D. Daws*

Date: *7 April 2015*



Department of  
Transport



PLAN 687 - 22 - 01 - A

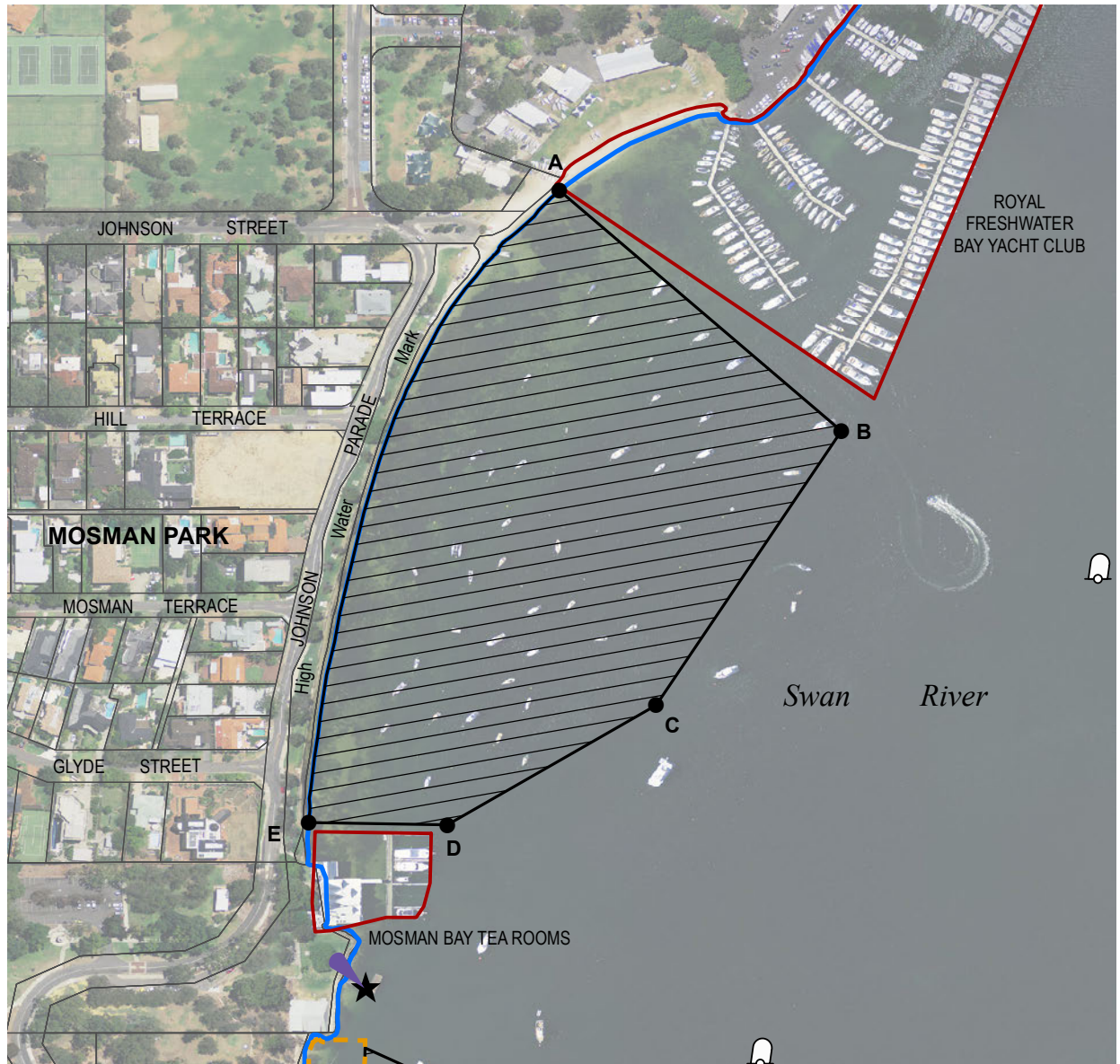
# SWAN RIVER MOSMAN BAY - NORTH MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 0.192'	115° 46.374'
B	32° 0.273'	115° 46.468'
C	32° 0.365'	115° 46.406'
D	32° 0.405'	115° 46.336'
E	32° 0.404'	115° 46.290'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-28-02A.  
AREA, 6.39 HECTARES



## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		



SUBJECT TO SURVEY

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1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014

Drawn by: S Salgado  
Date: 23 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *23 February 2015*



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PLAN 687 - 28 - 02 - A

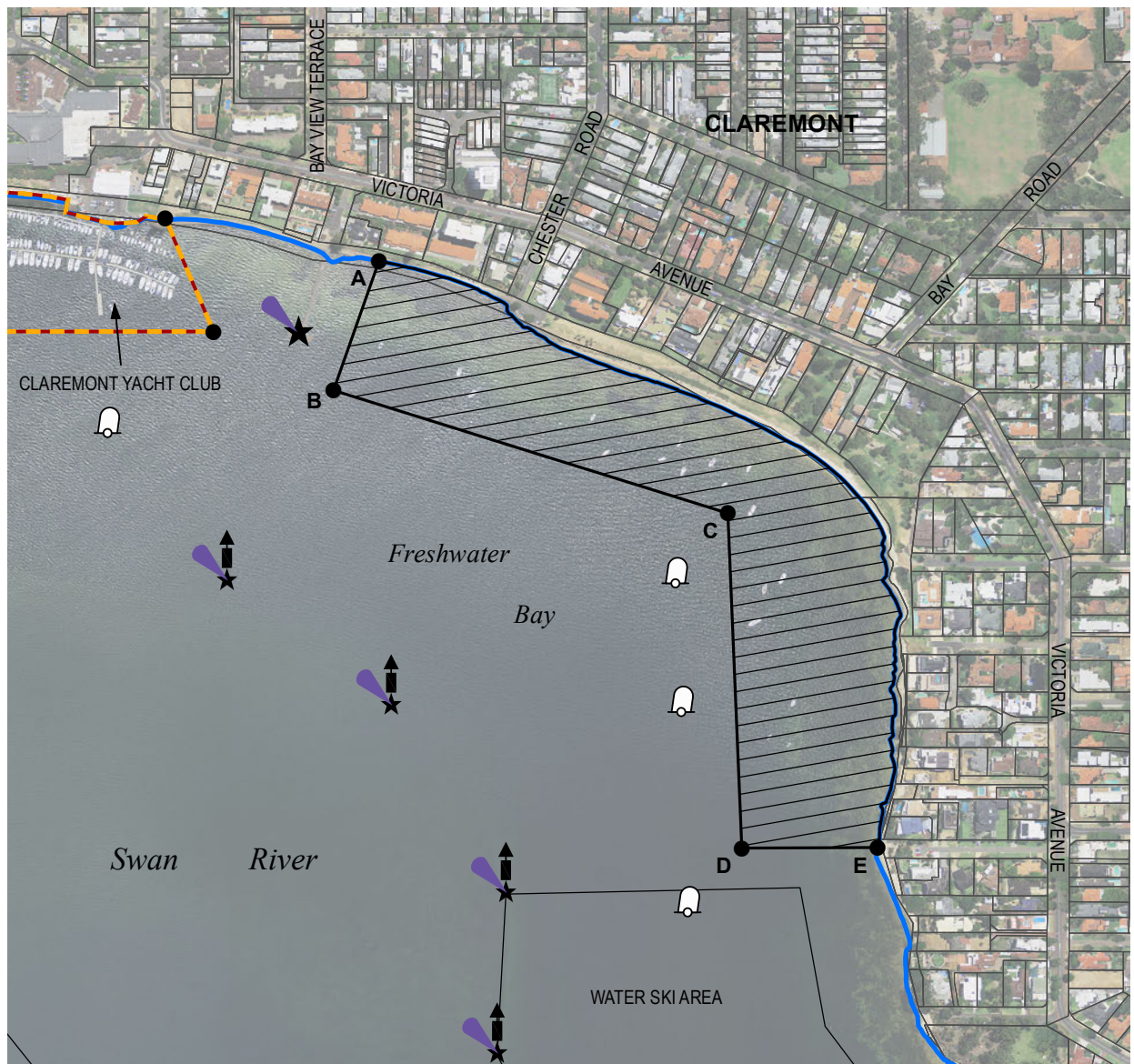


# SWAN RIVER CLAREMONT MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.352'	115° 46.922'
B	31° 59.428'	115° 46.895'
C	31° 59.500'	115° 47.127'
D	31° 59.697'	115° 47.135'
E	31° 59.697'	115° 47.215'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-19-01-A.  
AREA, 10.76 HECTARES



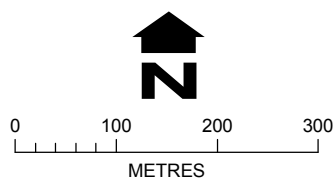
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 25 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *25 February 2015*



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Transport



PLAN 687 - 19 - 01 - A



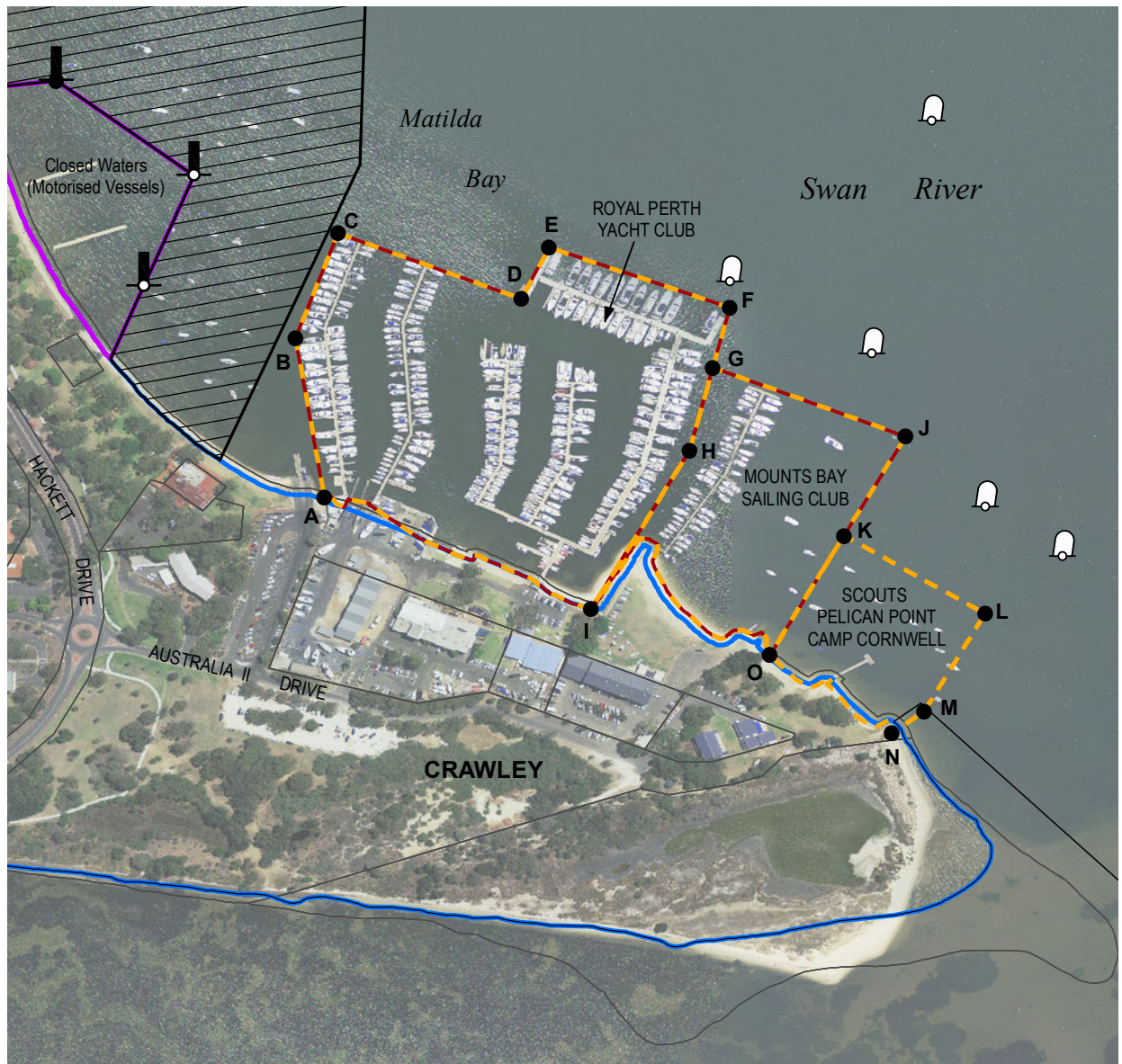
# SWAN RIVER MATILDA BAY MOORING LICENCE AREA SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)	NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.071'	115° 49.416'	I	31° 59.117'	115° 49.526'
B	31° 59.005'	115° 49.404'	J	31° 59.046'	115° 49.657'
C	31° 58.961'	115° 49.421'	K	31° 59.087'	115° 49.631'
D	31° 58.988'	115° 49.497'	L	31° 59.119'	115° 49.690'
E	31° 58.967'	115° 49.509'	M	31° 59.160'	115° 49.664'
F	31° 58.992'	115° 49.584'	N	31° 59.169'	115° 49.651'
G	31° 59.017'	115° 49.577'	O	31° 59.136'	115° 49.600'
H	31° 59.051'	115° 49.567'			

THE WATERS ARE SHOWN DASHED IN YELLOW ON PLAN, TRANSPORT WA 687-47-01.  
AREA, 8.68 HECTARES



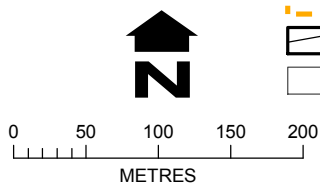
## Legend

Mooring Licence Area	Closed Waters (Motorised Vessels)
Mooring Zone	Lease Boundary
Cadastre	Coastline (Landgate 2012)

SUBJECT TO SURVEY

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1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 15 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *15 October 2014*



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Transport



PLAN 687 - 47 - 01



# CANNING RIVER APPLECROSS MOORING LICENCE AREA SITE PLAN

ALL THAT PORTION OF CANNING RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 0.092'	115° 50.664'
B	32° 0.059'	115° 50.852'
C	32° 0.404'	115° 51.004'
D	32° 0.417'	115° 50.843'

THE WATERS ARE SHOWN DASHED IN YELLOW ON PLAN, TRANSPORT WA 687-48-01.  
AREA, 14.44 HECTARES



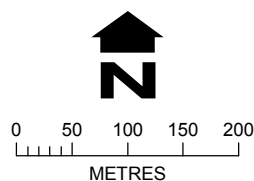
## Legend

- Mooring Licence Area
- Lease Boundary
- Mooring Zone
- Coastline (Landgate 2012)
- Cadastre

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1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 14 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *14 October 2014*



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PLAN 687 - 48 - 01



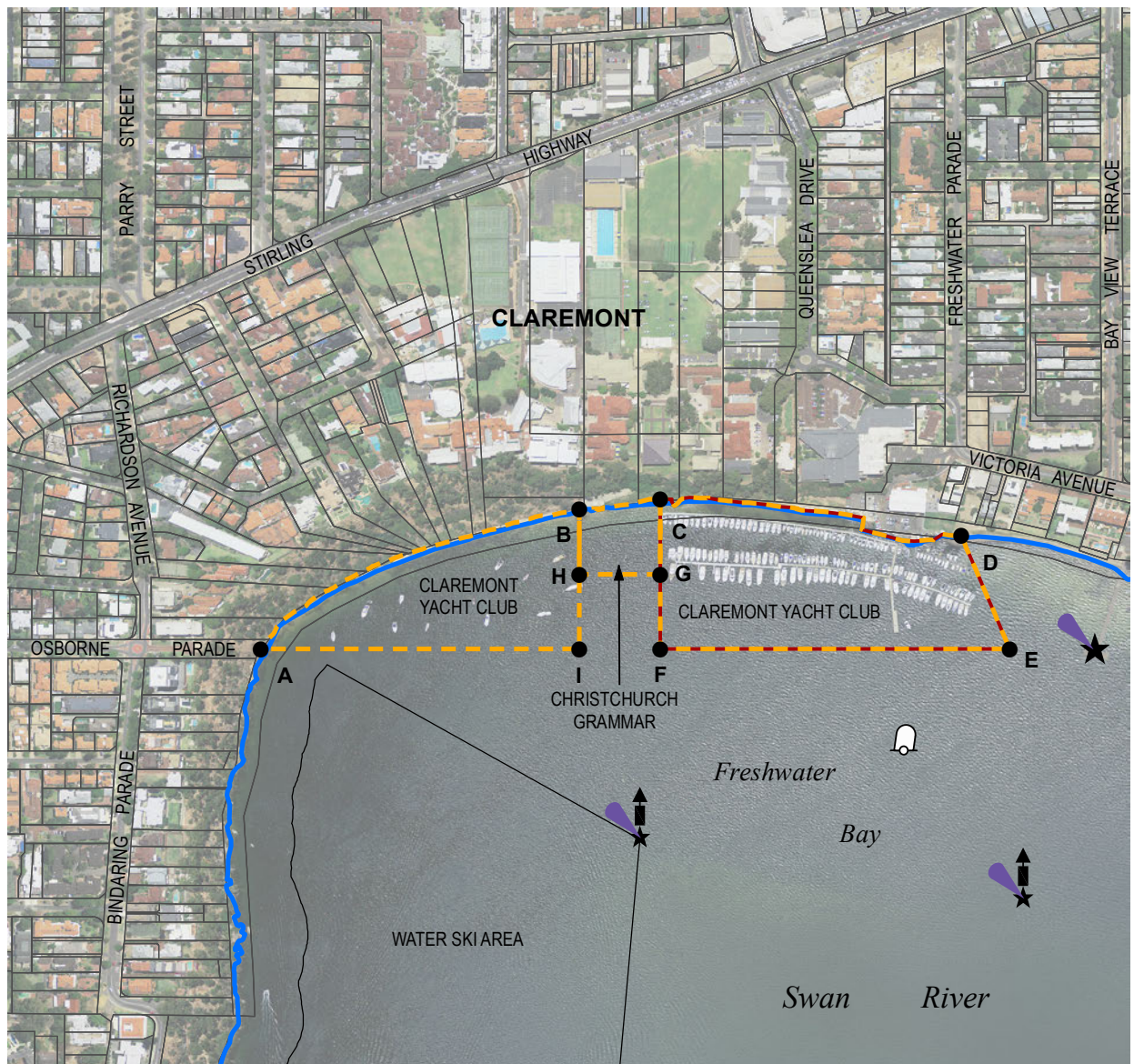
# SWAN RIVER CLAREMONT MOORING LICENCE AREA SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)	NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.393'	115° 46.385'	F	31° 59.393'	115° 46.620'
B	31° 59.311'	115° 46.572'	G	31° 59.350'	115° 46.620'
C	31° 59.305'	115° 46.620'	H	31° 59.350'	115° 46.572'
D	31° 59.327'	115° 46.797'	I	31° 59.393'	115° 46.572'
E	31° 59.393'	115° 46.825'			

THE WATERS ARE SHOWN DASHED IN YELLOW ON PLAN, TRANSPORT WA 687-46-01.  
AREA, 7.78 HECTARES



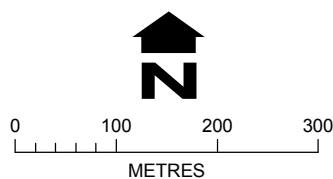
## Legend

	Mooring Licence Area		Lease Boundary
	Cadastre		Coastline (Landgate 2012)

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 13 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *13 October 2014*



Department of  
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PLAN 687 - 46 - 01

# SWAN RIVER EAST FREMANTLE MOORING LICENCE AREA SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 1.595'	115° 45.817'
B	32° 1.515'	115° 45.793'
C	32° 1.509'	115° 45.830'
D	32° 1.586'	115° 45.853'

THE WATERS ARE SHOWN DASHED IN YELLOW ON PLAN, TRANSPORT WA 687-45-01.  
AREA, 0.90 HECTARES



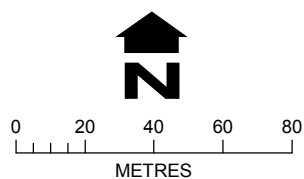
## Legend

	Mooring Licence Area		Lease Boundary
	Cadastre		Coastline (Landgate 2012)

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 13 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *13 October 2014*



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Transport



PLAN 687 - 45 - 01



# SWAN RIVER DALKEITH MOORING LICENCE AREA SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.823'	115° 48.740'
B	31° 59.596'	115° 48.838'
C	31° 59.515'	115° 48.987'
D	31° 59.655'	115° 49.029'

THE WATERS ARE SHOWN DASHED IN YELLOW IN PLAN, TRANSPORT WA 687-44-01.  
AREA, 11.54 HECTARES



## Legend

- Mooring Licence Area
- Lease Boundary
- Mooring Zone
- Coastline (Landgate 2012)
- Cadastre



0 50 100 150 200  
METRES

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LANDGATE AERIAL IMAGERY FEBRUARY 2014

Drawn by: S Salgado  
Date: 13 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *13 October 2014*



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PLAN 687 - 44 - 01

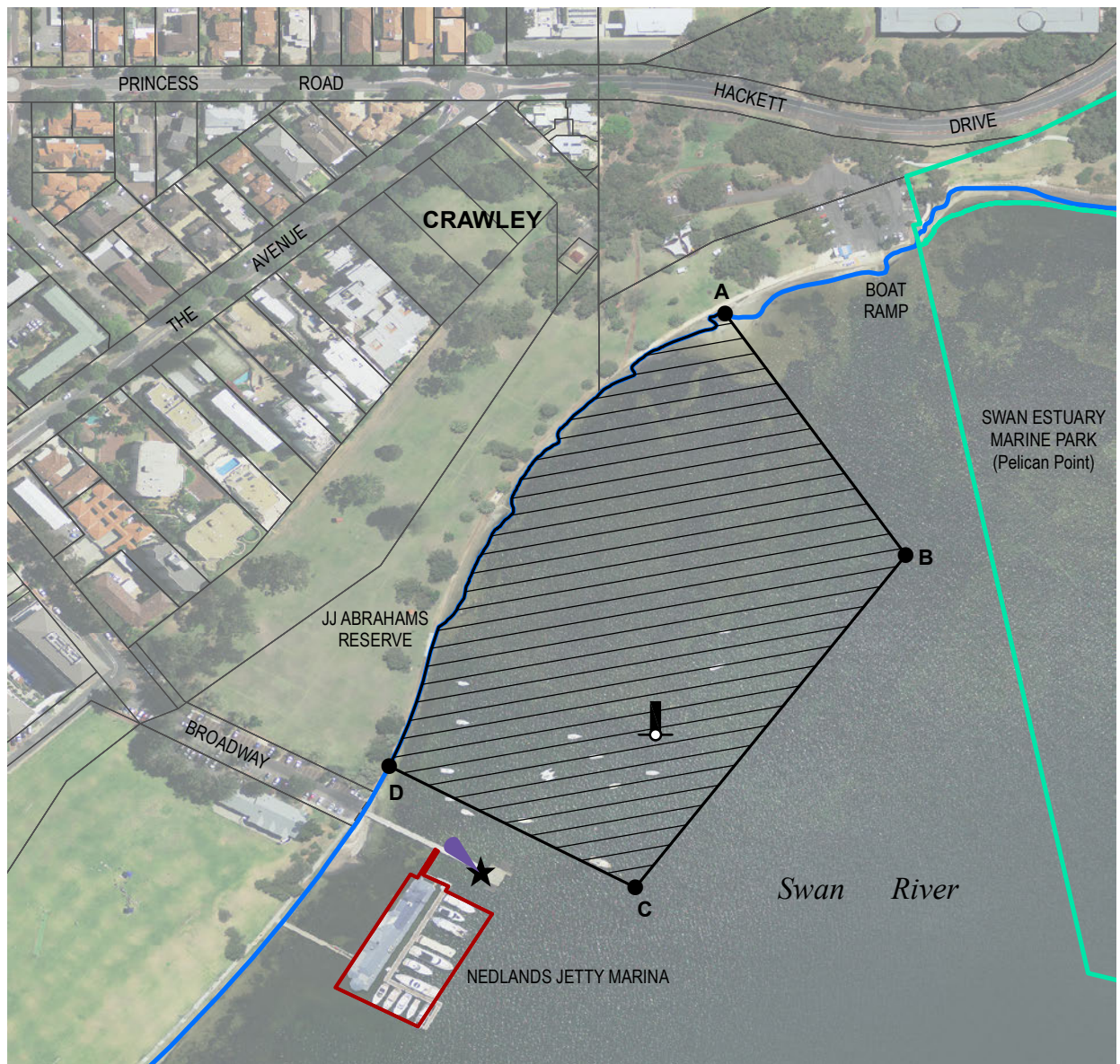


# SWAN RIVER NEDLANDS MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.256'	115° 49.160'
B	31° 59.331'	115° 49.216'
C	31° 59.434'	115° 49.132'
D	31° 59.396'	115° 49.056'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-33-01-A.  
AREA, 4.48 HECTARES



## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)

Drawn by: S Salgado  
Date: 1 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *1 October 2014*

SUBJECT TO SURVEY

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LANDGATE AERIAL IMAGERY FEBRUARY 2014



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PLAN 687 - 33 - 01 - A



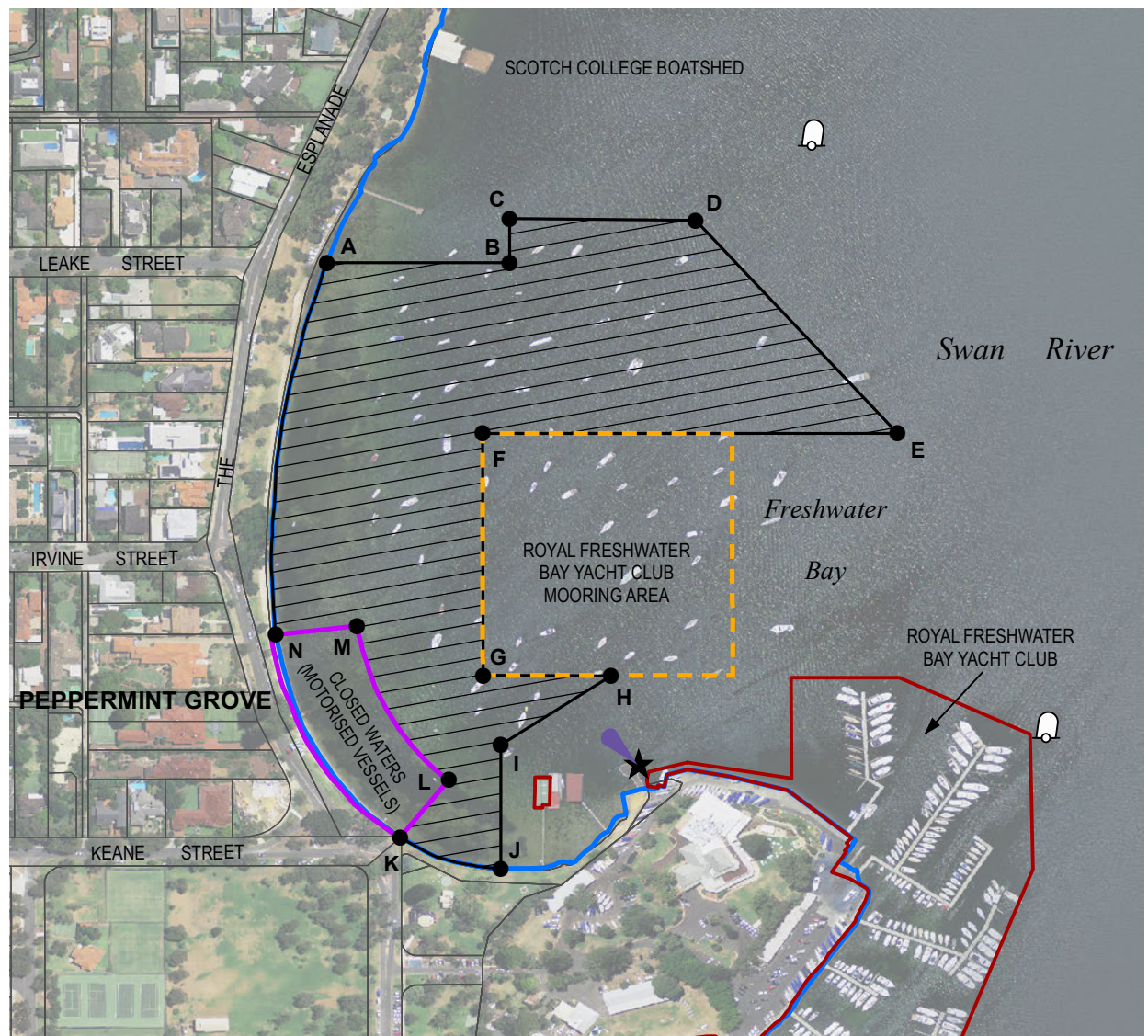
# SWAN RIVER PEPPERMINT GROVE MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)	NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.873'	115° 46.282'	I	32° 0.054'	115° 46.348'
B	31° 59.873'	115° 46.351'	J	32° 0.100'	115° 46.348'
C	31° 59.856'	115° 46.351'	K	32° 0.089'	115° 46.310'
D	31° 59.856'	115° 46.400'	L	32° 0.067'	115° 46.328'
E	31° 59.937'	115° 46.497'	M	32° 0.009'	115° 46.294'
F	31° 59.937'	115° 46.341'	N	32° 0.012'	115° 46.263'
G	32° 0.028'	115° 46.341'			
H	32° 0.028'	115° 46.389'			

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-30-01-B.  
AREA, 6.74 HECTARES



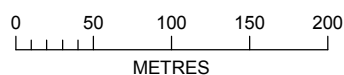
## Legend

Mooring Zone	Closed Waters (Motorised Vessels)
Cadastre	Lease Boundary
Mooring Licence Area	Coastline (Landgate 2012)

SUBJECT TO SURVEY

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LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 24 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *24 February 2015*



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PLAN 687 - 30 - 01 - B

# SWAN RIVER MAYLANDS MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 56.641'	115° 54.777'
B	31° 56.700'	115° 54.842'
C	31° 56.717'	115° 54.818'
D	31° 56.658'	115° 54.753'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-25-01A.  
AREA, 0.73 HECTARES



## Legend

- Mooring Zone
- Cadastre
- Coastline (Landgate 2012)



0 20 40 60 80 100  
METRES

SUBJECT TO SURVEY

PREPARED BY  
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LANDGATE AERIAL IMAGERY FEBRUARY 2014

Drawn by: S Salgado  
Date: 1 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *1 October 2014*



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PLAN 687 - 25 - 01 - A

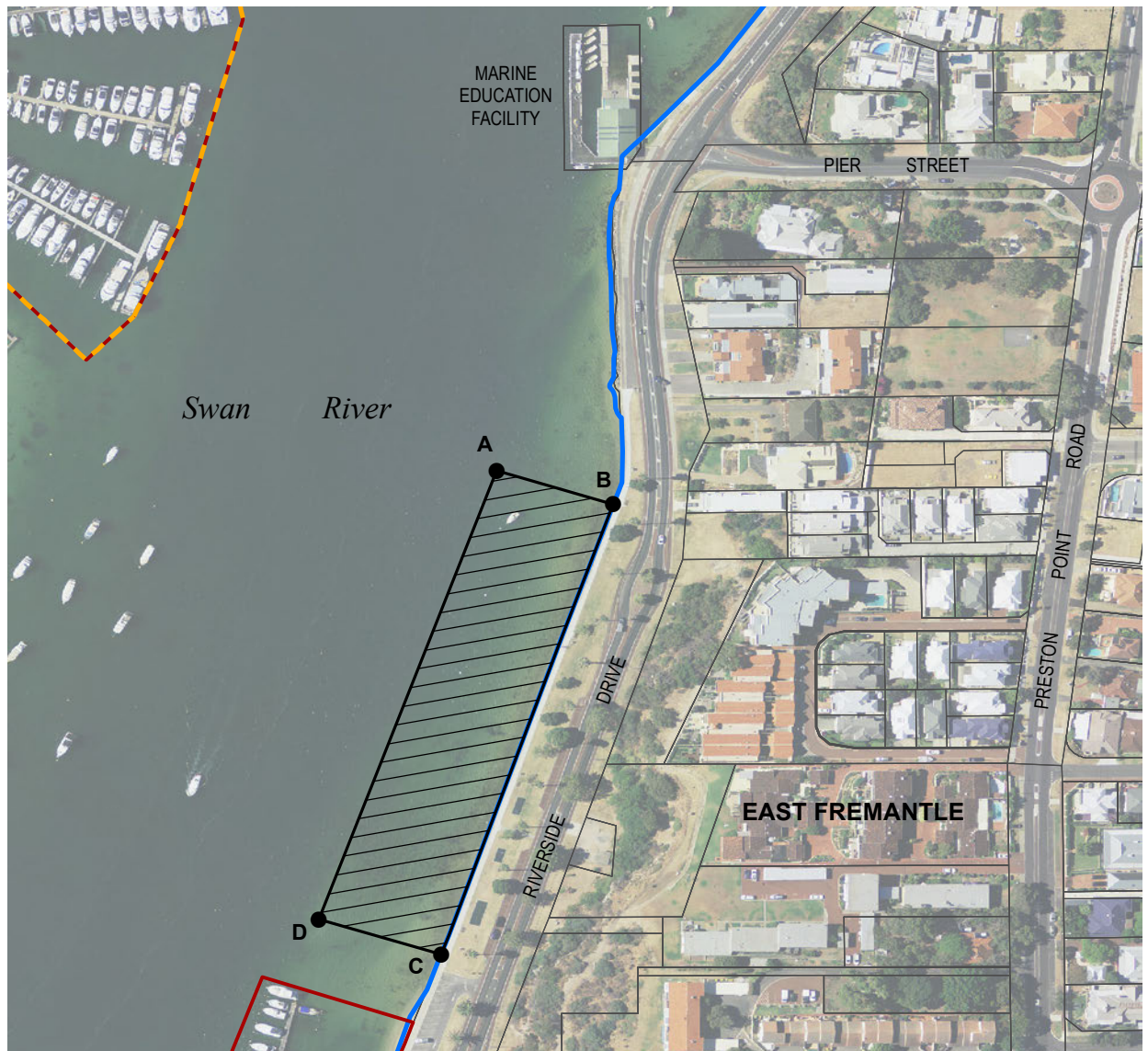


# SWAN RIVER OYSTER BEDS MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 2.088'	115° 45.745'
B	32° 2.096'	115° 45.772'
C	32° 2.201'	115° 45.732'
D	32° 2.193'	115° 45.703'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-35-01-A.  
AREA, 0.95 HECTARES



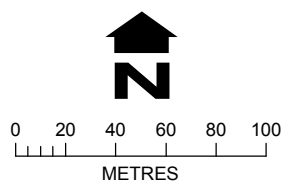
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

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Drawn by: S Salgado  
Date: 1 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *1 October 2014*



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Transport



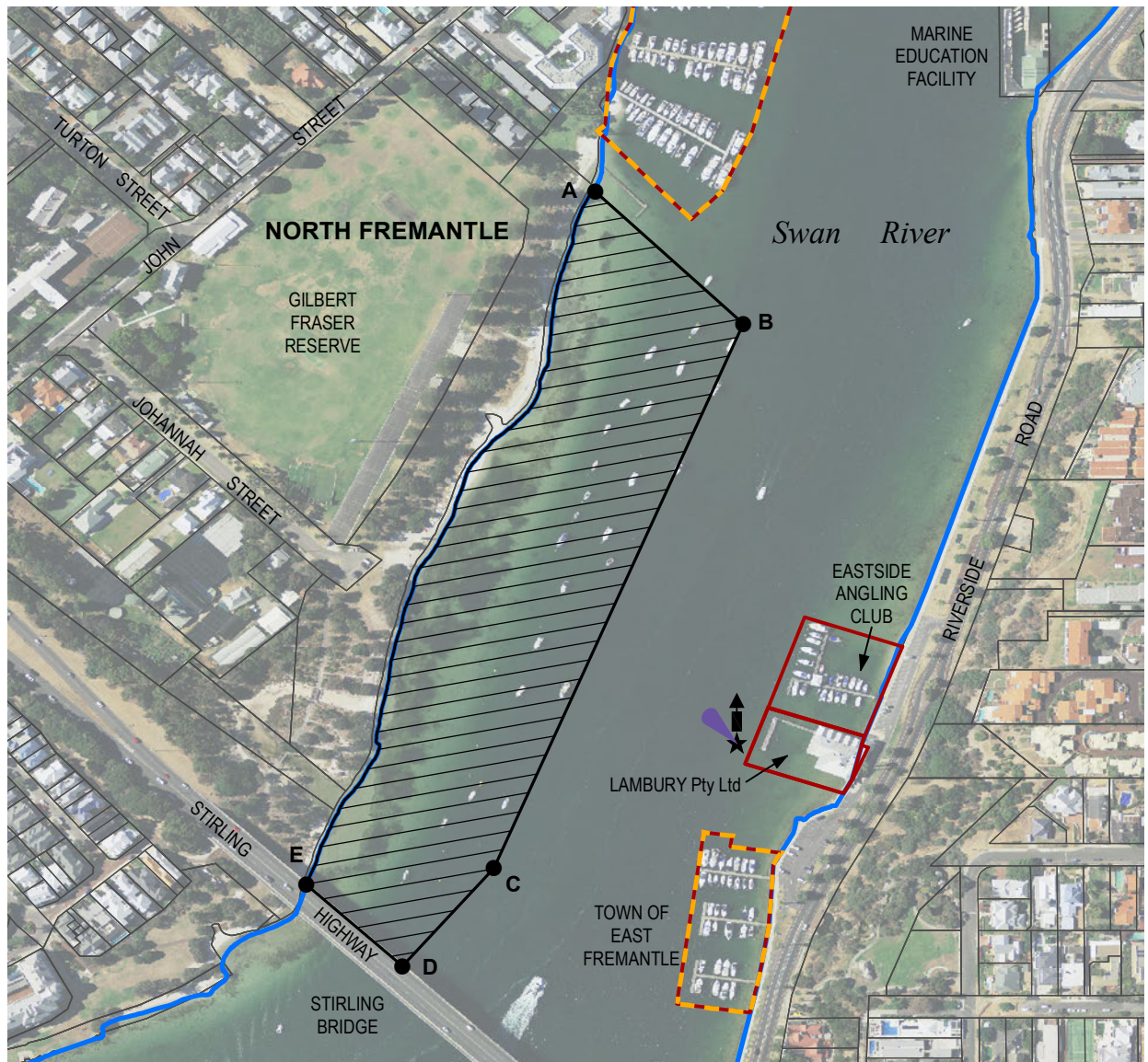
PLAN 687 - 35 - 01 - A

# SWAN RIVER NORTH FREMANTLE MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 2.052'	115° 45.614'
B	32° 2.100'	115° 45.668'
C	32° 2.297'	115° 45.577'
D	32° 2.333'	115° 45.544'
E	32° 2.303'	115° 45.509'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-29-01-B.  
AREA, 4.87 HECTARES



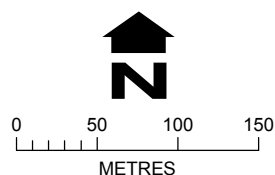
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

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LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 1 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *1 October 2014*



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PLAN 687 - 29 - 01 - B



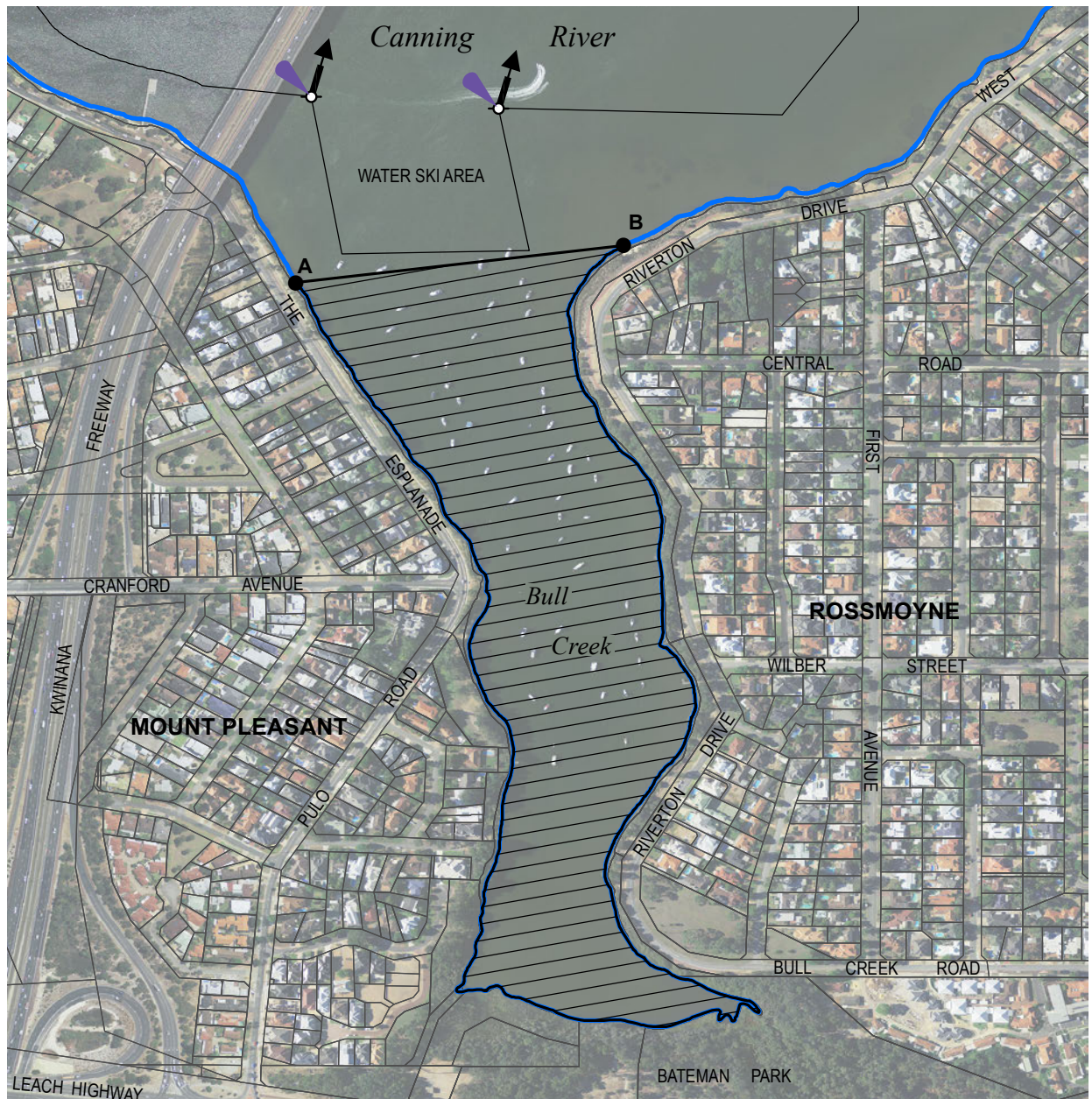
# CANNING RIVER BULL CREEK MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 2.264'	115° 51.458'
B	32° 2.240'	115° 51.671'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-23-01-A.  
AREA, 17.59 HECTARES



## Legend

- Mooring Zone
- Cadastre
- Coastline (Landgate 2012)

Drawn by: S Salgado

Date: 1 October 2014

Examined by Manager Cartography:

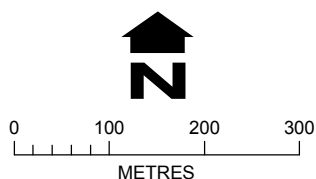
D Daws: *D. Daws*

Date: *1 October 2014*

SUBJECT TO SURVEY

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LANDGATE AERIAL IMAGERY FEBRUARY 2014



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**PLAN 687 - 23 - 01 - A**



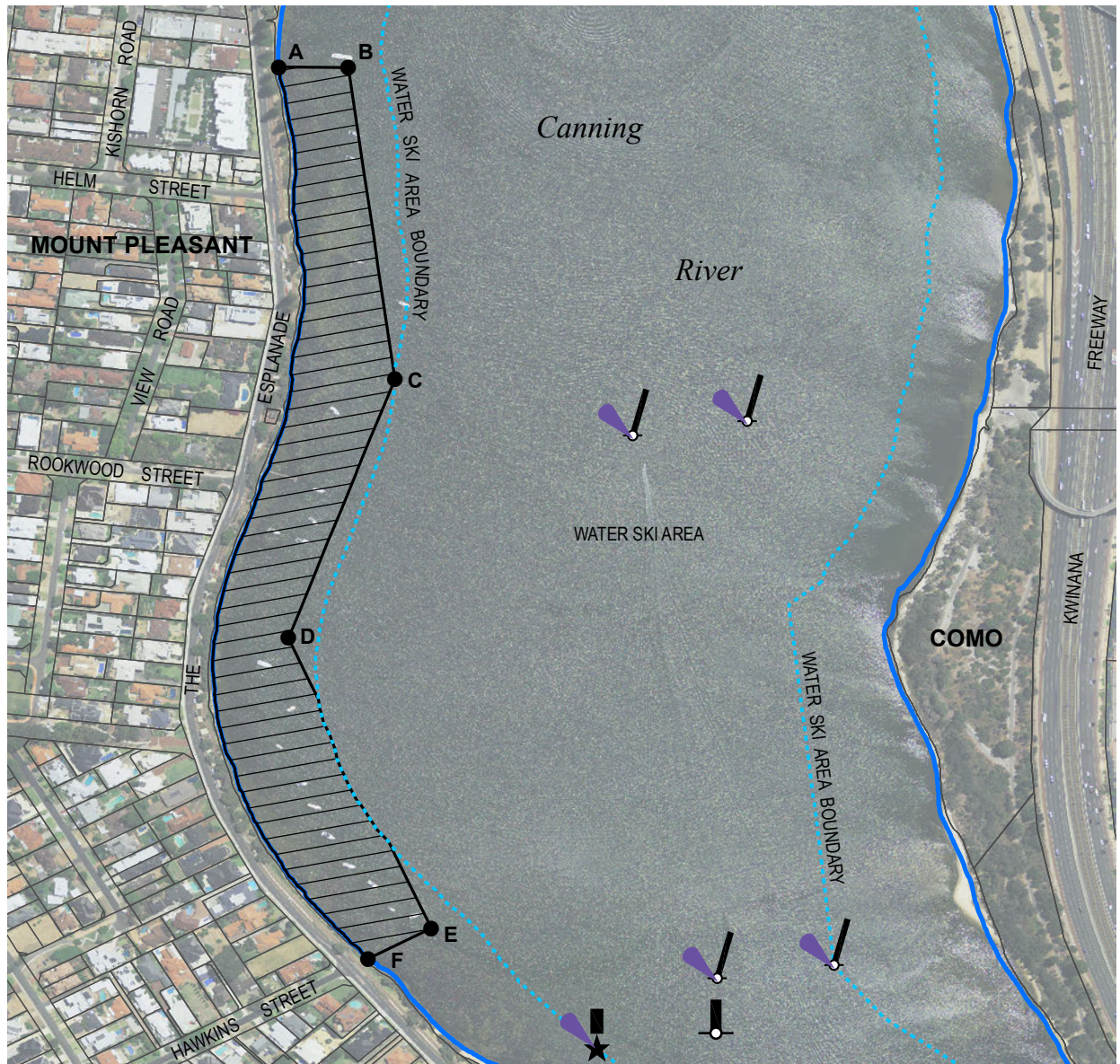
# CANNING RIVER CANNING BRIDGE TO DEEPWATER POINT MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 0.848'	115° 51.054'
B	32° 0.849'	115° 51.089'
C	32° 1.003'	115° 51.112'
D	32° 1.131'	115° 51.059'
E	32° 1.275'	115° 51.130'
F	32° 1.290'	115° 51.099'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-31-01-A.  
AREA, 5.64 HECTARES



## Legend

- Mooring Zone
- Cadastre
- Coastline (Landgate 2012)

Drawn by: S Salgado

Date: 1 October 2014

Examined by Manager Cartography:

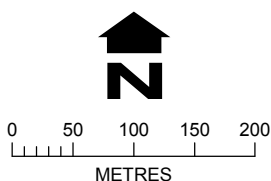
D Daws: *D. Daws*

Date: *1 October 2014*

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**PLAN 687 - 31 - 01 - A**



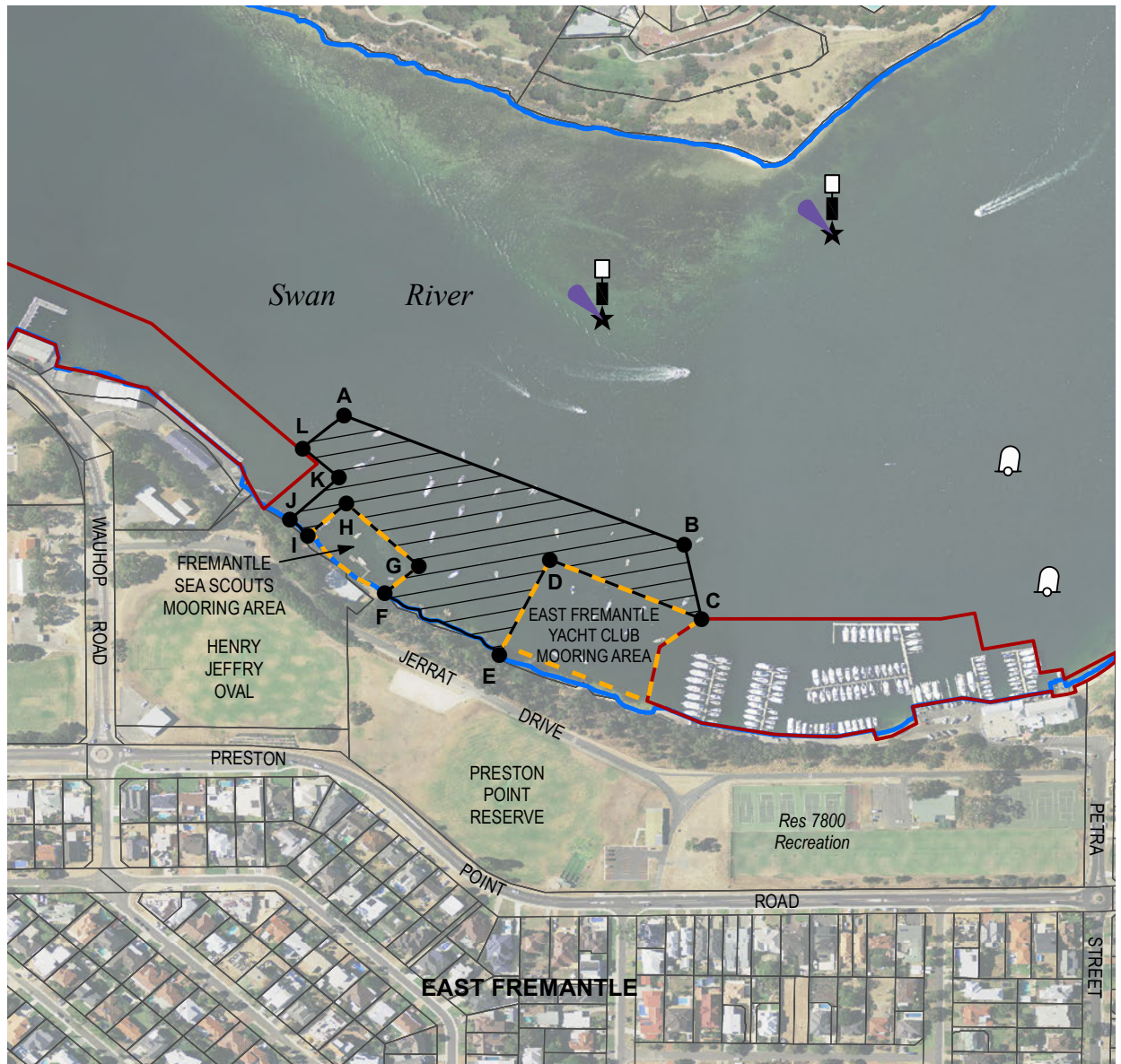
# SWAN RIVER EAST FREMANTLE MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)	NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 1.617'	115° 46.234'	G	32° 1.683'	115° 46.267'
B	32° 1.674'	115° 46.385'	H	32° 1.656'	115° 46.235'
C	32° 1.707'	115° 46.393'	I	32° 1.670'	115° 46.218'
D	32° 1.681'	115° 46.326'	J	32° 1.663'	115° 46.210'
E	32° 1.723'	115° 46.303'	K	32° 1.644'	115° 46.232'
F	32° 1.695'	115° 46.253'	L	32° 1.631'	115° 46.216'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-27-01-B.  
AREA, 2.35 HECTARES



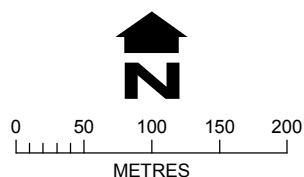
## Legend

	Mooring Zone		Lease Boundary
	Cadastral		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

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LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 9 October 2014

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *9 October 2014*



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PLAN 687 - 27 - 01 - B

# SWAN RIVER LEEWIN MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 1.807'	115° 45.776'
B	32° 1.833'	115° 45.739'
C	32° 1.946'	115° 45.756'
D	32° 1.968'	115° 45.773'
E	32° 1.971'	115° 45.814'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 6873201A.  
AREA, 3.55 HECTARES



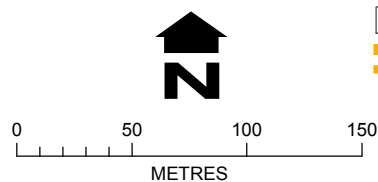
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

PREPARED BY  
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LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 3 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *3 February 2015*



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PLAN 687 - 32 - 01 - A



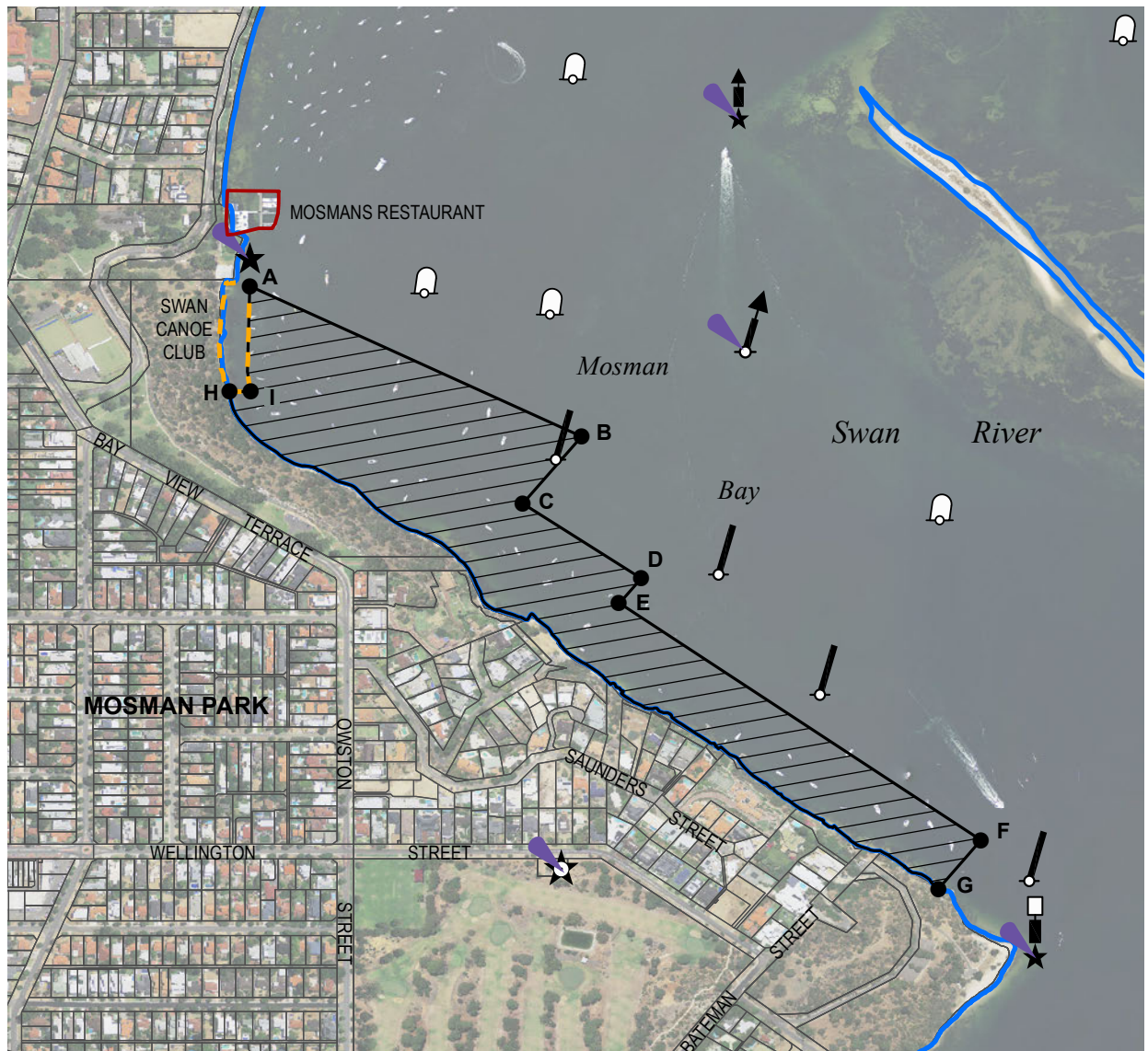
# SWAN RIVER MOSMAN BAY - SOUTH MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS

THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 0.480'	115° 46.308'
B	32° 0.594'	115° 46.561'
C	32° 0.645'	115° 46.516'
D	32° 0.702'	115° 46.606'
E	32° 0.721'	115° 46.589'
F	32° 0.901'	115° 46.864'
G	32° 0.938'	115° 46.832'
H	32° 0.560'	115° 46.293'
I	32° 0.560'	115° 46.309'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-26-01A.  
AREA, 15.04 HECTARES



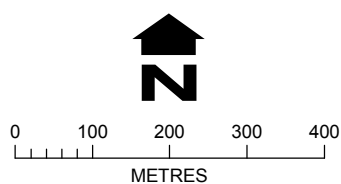
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

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CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 2 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *2 February 2015*



Department of  
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PLAN 687 - 26 - 01 - A

# SWAN RIVER DALKEITH MOORING ZONE SITE PLAN

ALL THAT PORTION OF SWAN RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

Node	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	31° 59.823'	115° 48.740'
B	31° 59.813'	115° 48.757'
C	31° 59.813'	115° 48.793'
D	31° 59.883'	115° 48.800'
E	31° 59.974'	115° 48.745'
F	31° 59.989'	115° 48.657'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-34-01-B.  
AREA, 3.25 HECTARES



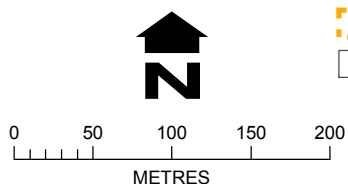
## Legend

	Mooring Zone		Lease Boundary
	Mooring Licence Area		Coastline (Landgate 2012)
	Cadastre		

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 23 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *23 February 2015*



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PLAN 687 - 34 - 01 - B



# CANNING RIVER CANNING BRIDGE TO SOUTH OF PERTH YACHT CLUB MOORING ZONE SITE PLAN

ALL THAT PORTION OF CANNING RIVER WATERS ENCLOSED BY A CONTIGUOUS LINE FORMED BY SEGMENTS  
THE POSITION OF SEGMENT NODES USING A HORIZONTAL DATUM BASED ON GDA94

NODE	LATITUDE (SOUTH)	LONGITUDE (EAST)
A	32° 0.462'	115° 50.864'
B	32° 0.442'	115° 50.955'
C	32° 0.432'	115° 51.053'
D	32° 0.592'	115° 51.100'

THE WATERS ARE SHOWN HATCHED ON PLAN, TRANSPORT WA 687-24-01A.  
AREA, 7.14 HECTARES



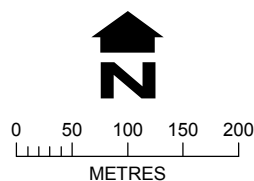
## Legend

	Mooring Zone		Lease Boundary
	Cadastre		Coastline (Landgate 2012)
	Mooring Licence Area		

SUBJECT TO SURVEY

PREPARED BY  
CARTOGRAPHIC SERVICES  
1 ESSEX STREET FREMANTLE

LANDGATE AERIAL IMAGERY FEBRUARY 2014



Drawn by: S Salgado  
Date: 23 February 2015

Examined by Manager Cartography:  
D Daws: *D. Daws*  
Date: *23 February 2015*



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PLAN 687 - 24 - 01 - A