

FinBook

An identification catalogue for dolphins
observed in the Swan Canning Riverpark



EIGHTH EDITION – 2020



Department of Biodiversity,
Conservation and Attractions



SWAN CANNING
RIVERPARK



Foreword

It is a great pleasure, as Patron of *Dolphin Watch*, to write the foreword to the eighth edition of this splendid book, which is based on the very best science and the dedicated work of so many individuals and teams.

Using the book as a guide, we now know so much more about the animals that are held dear by Western Australians and visitors to our State alike. The book makes it possible to identify individual dolphins and to build up a more comprehensive picture of their behaviours and needs. Their 'secret lives' are now being revealed, an essential prerequisite to ensuring their future in our ever-changing waterways. In the current edition, we have retained two recently added sections. These are 'Missing residents' and 'Visitors' as these have helped researchers track down dolphins of special scientific interest as well as dolphins who are infrequent visitors to our river systems.

I continue to be amazed by the success of *Dolphin Watch*. I am sure that, at the outset, none of us could have imagined that the project would have grown so much and have had such a lasting impact.

At the heart of *Dolphin Watch* are our extraordinary volunteers and we strive to give them the tools they need to do the very best job. Hence the move a few years back from the laborious pencil-and-paper approach to a smartphone app to upload reports with photos and videos. In 2020 we undertook a volunteer survey that showed a new, more user-friendly app is needed. The good news is that a partnership with the Department of Primary Industry and Regional Development will allow us to adopt their Marine Fauna Sightings app to report Statewide dolphin sightings and non-sightings too, as we know such data are also valuable.

This year we had mixed news about our Swan–Canning dolphins. Sadly, Cetacean Morbillivirus returned to the Riverpark killing four residents including Tupac (an adult female close to the hearts of many of us) along with juveniles Echo, Zari and Nala. On a brighter note, three previously unnamed dolphin calves belonging to Daniele, Claw and Akuna have been named. The youngsters bear the names chosen by three *Dolphin Watch* volunteer stalwarts, Jennie Hunt,



Bob Broadway and Sue Harper, and are included in this edition of the *FinBook*, as Slinky, Bobby and Super.

Beyond *Dolphin Watch's* key role in underpinning policy development and management practice, we play a strong advocacy role. Our voice along with those of others has meant that now over 100 'Reel it in' bins have been installed throughout the Swan Canning Riverpark, Peel–Harvey Estuary and other popular coastal fishing locations such as Rottneest, Busselton, Bunbury and Walpole. I am also delighted to report the return in 2020–21 of our highly successful *Junior Dolphin Watch* program. We are offering a total of 35 incursions/excursions to schools in the Swan Canning Catchment and hope to expand to Mandurah in 2021.

Dolphin Watch, supplemented by the *FinBook*, can justifiably claim to be establishing a legacy for future generations of Western Australians and enhancing the efforts of all those who care about the natural world across the globe. Each time you reach out to this book please accept a heartfelt thank you. Long may *Dolphin Watch* thrive.

Professor Lyn Beazley AO FTSE

Front cover: Juvenile dolphins socialising in the Swan Canning Riverpark.
Photo: Delphine Chabanne

Other photos by Delphine Chabanne, Sue Harper, Holly Smith, Krista Nicholson, Simon Allen, Matt Kleczkowski, Wayne Theobald, Alistair Ritchie, Rachel Hutton and Miranda Jackson.



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Dolphin Watch

Dolphin Watch is a collaborative, citizen science research and education project. The project was developed in 2009 by the Swan River Trust (now the Department of Biodiversity, Conservation and Attractions, or DBCA) together with Murdoch and Curtin universities. The aim is to help learn more about the resident Indo-Pacific bottlenose dolphin community that calls the Riverpark home.

Today, the collaboration is among DBCA's Parks and Wildlife Service, Murdoch and Edith Cowan University. In 2018, *Dolphin Watch* expanded and is now monitoring the resident Indo-Pacific bottlenose dolphins in the Peel-Harvey Estuary in Mandurah, as well as the Australian snubfin dolphins in Roebuck Bay, Broome.

Researchers from Edith Cowan and Murdoch universities work with the Parks and Wildlife Service's *River Guardians* team to train volunteers in techniques for monitoring the movement and behaviour of dolphins. Volunteers play an essential role in monitoring dolphins as citizen scientists. By becoming a member of the *River Guardians* program and attending training, people become more informed about conservation issues and can participate in activities to help the waterways and coastline, and the wildlife that inhabits them.

With 1350 trained *Dolphin Watchers* and more than 800 active volunteers observing dolphins in Perth, researchers are gaining a greater understanding of what dolphins do in one of the three monitored areas.

Volunteer information, photographs and video helps build a picture of the community of dolphins in the monitored areas. The Marine Fauna Sightings smartphone app enables community members to record information such as location and behaviour of the dolphins they observed. The app is available to download for free from the App Store (iPhone) or Google Play (Android).

Dolphin Watch shares information and expertise so that industry, government and the community can develop effective management activities and policy to help protect dolphins and their habitats.

Dolphin Watch continues to expand research capabilities and encourage volunteers to participate through online monitoring, smartphone apps and other initiatives.



Perth dolphin research

Coastal and Estuarine Dolphin Project

Research for the Coastal and Estuarine Dolphin Project (CEDP) is driven by the belief that the best future for Perth's dolphins lies with ecosystems that are healthy and resilient and with communities that are actively engaged in caring for their local dolphin populations and the environments they inhabit.

CEDP addresses the health, ecology and conservation of dolphins in the Perth region. Curtin University and Murdoch University founded CEDP as a response to the deaths of six dolphins within the Swan River in 2009. In 2018, Curtin CEDP researchers have moved from Curtin University to Edith Cowan University with the collaboration continuing between these two universities. CEDP works in partnership with State and local government, industry and the community of Western Australia.

Current CEDP Research

Since 2010, CEDP researchers have been monitoring the Riverpark dolphin community because of its small size and exposure to anthropogenic (man-made) activities. From 2011 to 2015, researchers conducted boat-based fieldwork to assess dolphin abundance and distribution within a study area extending from Rockingham to Scarborough along the coast and inland to the cities of Perth and Canning. With the very small resident dolphin community in the Riverpark, it was vital that its status and connections to other communities was understood. Other CEDP research investigated the effect of anthropogenic noise on dolphins.

Researchers work with DBCA staff to train *Dolphin Watch* volunteers and analyse volunteer data, which has revealed valuable insights into the Riverpark dolphins.

The overall ongoing objectives of CEDP are to:

- conduct rigorous and innovative research into the ecology of dolphins in the Perth region
- provide scientific information and advice to industry and government to support the conservation of dolphins and their habitat
- share information and expertise with the public to improve community-based conservation and monitoring for dolphins.

Dolphins in the Riverpark

Dolphins are a unique part of the Riverpark. What do we know about the ecology of the dolphins inhabiting the Swan and Canning rivers?

A resident community

The Riverpark is home to a resident community of about 21 dolphins, including six dependent calves (August 2020). These dolphins account for nearly all the *Dolphin Watch* sightings in the Riverpark, although dolphins from nearby coastal areas are occasional visitors (see 'Visitors' section in the catalogue).

The dolphins are classified as 'resident' because they use the Swan Canning Riverpark year-round. Based on our knowledge of bottlenose dolphins elsewhere, these animals are also likely to be life-long residents of the Riverpark.

The resident dolphins in the Riverpark are said to comprise a community of dolphins because they range over similar areas (the Riverpark and adjacent coastal waters) and frequently interact and associate with one another. These ranging and association patterns distinguish them from other dolphins that reside in Cockburn Sound or Owen Anchorage.



How to use FinBook

This is the eighth edition of *FinBook*, our guide to the Indo-Pacific bottlenose dolphins (*Tursiops aduncus*) inhabiting the Swan Canning Riverpark.

We hope experienced *Dolphin Watchers* enjoy the opportunity for an update on our Riverpark dolphins and that newcomers to *Dolphin Watch* can begin their own journey of discovery with these fascinating and unique creatures.

FinBook is a catalogue of dolphin fin-prints. The identification tables show the right and left sides of the dorsal fin for each of the dolphins observed regularly in the Riverpark. Information such as sex, age, first time recorded and others (e.g. previous calves, injuries) are also given.

We use the markings on the dorsal fins of dolphins to identify individual animals. These markings come from interactions with other dolphins and sometimes from shark attacks or entanglements. When born, dolphins have fins that lack markings – we refer to them as 'clean fins' – until their first interactions (natural or from human activities) occur.

FinBook sections

FinBook is divided into three sections according to the dolphins' age and sex. The females section also includes any calves that were still dependent on their mother in August 2020.

Adult females

There are seven adult females, with six of them having a dependent calf, the youngest one being born in July 2020.

Adult males

There are five males, including two that were already observed in the Riverpark in the early 2000's and a sub-adult male first observed as a calf in 2011.

Juveniles

There are three juveniles, although they aren't necessarily seen together.

Visitors

Although there have been records of dolphins from both sexes residing in the adjacent waters and visiting the Fremantle Ports, a few of them, females, were observed in the main section of the Riverpark with the resident adult males on several occasions.

Adult females

Name Akuna

Sex Female

Age Adult

First recorded 2009

Note Mother of juvenile dolphin Nala who died in November 2019 during the second 2019 outbreak of the Cetacean Morbillivirus.

Left side



Right side



Calf's name Super

Born Early 2018

Note Calf of Akuna. Name chosen by one of our long-term super citizen scientists Susan Harper. It is expected that Super will become an independent juvenile in the next year.

Left side



Right side



Adult females

Name Daniele**Sex** Female**Age** Adult**First recorded** 2009

Note Daniele lost her first calf in January 2013. Echo was her second calf but died in May 2019 during the first outbreak of the Cetacean Morbillivirus.

Left side**Right side****Calf's name** Slinky**Born** Early 2019

Note Calf of Daniele. Name chosen by one of our long-term super citizen scientists Jennie Hunt.

Left side**Right side**

Adult females

Name Dunedoo**Sex** Female**Age** Adult**First recorded** 2009

Note Dunedoo lost her first newborn calf in September 2016.

Left side**Right side****Calf's name** Marnz

(named after Marnie Giroud, a passionate advocate for wildlife and conservation and who worked hard for the *Dolphin Watch* project to be what it is today)

Born November 2017

Note Calf of Dunedoo. Marnz is expected to become an independent juvenile in the next few months.

Left side**Right side**

Adult females

Name Claw**Sex** Female**Age** Adult**First recorded** 2009

Note Claw is missing the very tip of her rostrum. Although Claw's foraging is not affected, we do not know how this injury happened.

Left side



Right side

**Calf's name** Bobby**Born** April 2019

Note Calf of Claw. Named after long-time Dolphin Watcher and IT guru Robert (Bob) Broadway.

Left side



Right side



Adult females

Name Moon**Sex** Female**Age** Adult**First recorded** 2001

Note Mother of sub-adult dolphin Night and of juvenile dolphin Djinda. Moon lost a newborn in January 2018 as well as a three-month old calf in 2019 from fishing line entanglement.

Left side



Right side

**Calf's name** Moon's calf 2020 (not named yet)**Born** July 2020**Note** Calf of Moon

Left side



Right side



Adult females

Name Eden**Sex** Female**Age** Adult**First recorded** 2009

Note Mother of juvenile dolphins Garden and Heaven. Eden lost her most recent calf born in March 2016. Garden has not been seen since June 2018.

Left side



Right side



Adult females

Name Panuni**Sex** Female**Age** Adult**First recorded** 2011

Note Mother of juvenile dolphin Cruze. Panuni lost a calf within the first month after birth in early 2019.

Left side



Right side



Calf's name Zephyr
(named by Sue Friell)

Born December 2018**Note** Calf of Eden

Left side



Right side



Adult males

Name Bottomslice**Sex** Male**Age** Adult**First recorded** 2001**Note** Bottomslice is usually seen with Blackwall.

Left side



Right side



Adult males

Name Extreme**Sex** Male**Age** Adult**First recorded** 2009

Left side



Right side

**Name** Blackwall**Sex** Male**Age** Adult**First recorded** 2001**Note** Chunk missing out of peduncle (probably old shark attack wound). Blackwall is usually seen with Bottomslice.

Left side



Right side

**Name** Kwillena lookalike**Sex** Male**Age** Adult**First recorded** 2011**Note** Kwillena lookalike was attacked by a shark in Winter 2014 leaving some scars on his body.

Left side



Right side



Adult males

Name Night

Sex Male

Age Sub-adult

First recorded 2011

Note Moon's previous calf.

Left side



Right side



Juveniles

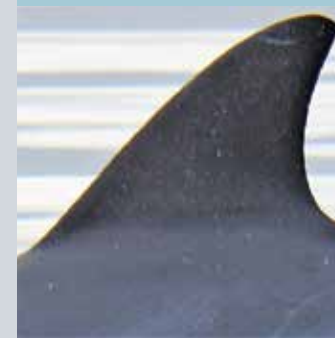
Name Djinda (named by Rhonda Harman)

Sex Female

Age Juvenile

Note Cruze was first seen independent to her mother Panuni and venturing further up in the estuary in June 2018.

Left side



Right side



Name Cruze (named by Jennifer Cogan)

Sex Female

Age Juvenile

Note Born early 2015, Cruze was first seen independent to her mother Panuni and venturing further up in the estuary in June 2018.

Left side



Right side



Juveniles

Name Click (named by Ruby Pyle)

Sex Unknown

Age Juvenile

Note Born in March 2016 to mum Tupac. Unfortunately, Tupac and her new calf born in March 2019 died in November 2019 during the second outbreak of the Cetacean Morbillivirus.

Left side



Right side



Visitors

Name Cuddles

Sex Female

Age Adult

First recorded 2011

Note Cuddles is known as a resident dolphin in the adjacent waters (south of Fremantle). Still, she visited the Riverpark on several occasions sometimes accompanied with a dependent calf.

Left side



Right side



Name Infinity

Sex Female

Age Adult

First recorded 2011

Note Infinity is known as a resident dolphin in the adjacent waters (south of Fremantle) and visited the Riverpark on several occasions.

Left side



Right side



Visitors

Name Clara

Sex Female

Age Adult

First recorded 2011

Note Clara is known as a resident dolphin in the adjacent waters (south of Fremantle) and visited the Riverpark on several occasions.

Left side



Right side



Name Hugs

Sex Unknown

Age Juvenile

First recorded 2011

Note Hugs knows the Riverpark. The dolphin first visited with its mother Cuddles in 2013. Hugs became independent from Cuddles in 2014. Still Hugs has been observed in the Fremantle Ports on several occasions.

Left side



Right side



Dolphin behaviour

The main dolphin behaviours are defined as being among one of four 'states' - travelling, foraging, resting, or socialising. Within a behavioural state, dolphins might display some instantaneous behaviour, also called 'events', such as vocalisations, sudden movements or ingestion of prey. Each of the behavioural states and some commonly observed events are described below.

Travelling

Dolphins show persistent movement in a consistent direction. This implies a directed effort to make progress in a particular direction. Dolphins may also ride a boat's bow or stern wake to go almost twice as fast using the same energy cost. Dolphins can travel alone or in the company of other individuals.

Dolphins often travel straight for periods and then, if they locate a fish, stop and mill around an area to forage for a little while.



Foraging and feeding

Dolphins that are actively searching for prey like finfish, squid and octopus are said to be foraging. Foraging is the most common activity for dolphins in the Riverpark. When dolphins are catching, processing and eating prey, they are said to be feeding.

Generally, dolphins consume prey underwater. However, as dolphins cannot chew, they sometimes throw larger prey around the surface or drag it along the bottom to break it up into smaller pieces. In deep water, foraging dolphins are usually spread apart from each other (at least 10m apart), often milling and changing directions with every surfacing. You may see them surface for a few breaths, dive again for a few minutes, then surface again for a few breaths. We refer to this behaviour as '**mill forage**'.

Sometimes, when dolphins are in a hurry to get back underwater, you will see them surface for one quick breath, either by **leaping** or porpoising out of the water, or **rapidly surfacing** without their ventral side clearing the surface.

Foraging behaviours in shallow water often includes

- **fast swimming** and '**rooster tailing**' where streams of water come off the dorsal fin. This fast swim can turn into a hydroplane where most of the dolphin's body is visible above the water.
- **bottom-grubbing** where dolphins poke around in the mud, sand, seagrass or seaweed with their rostrum. After engaging in bottom grubbing, you can usually see the dolphin's rostrum and head, and sometimes even the dorsal fin, covered in mud.

Other foraging behaviours include:

- **belly-up fish chase** which involves dolphins swimming around on their backs while chasing fish. Their eyesight and echolocation work best in a slightly downwards direction, so it can be easier to keep track of fish that way.
- **herding fish against a structure** (e.g. a wall or breakwater).

Dolphins often travel along the edges of the rivers while searching for fish and display a forage/travel combination. For example, they often travel through marinas and moorings or along the edge of Point Walter. Sometimes, they stop and engage in mill forage for a little while, before moving on.



Resting



Dolphins that are engaged predominantly in a resting state and are not actively foraging/feeding, travelling or socialising.

In contrast to foraging dolphins, resting dolphins form groups that are tightly-spaced (i.e. less than 2m between dolphins), moving slowly, usually without a clear direction, and taking multiple breaths (four to eight or more) at each surfacing, then diving within a few seconds of each other.

Resting dolphins may be submerged for several minutes and may surface pointed in another direction.

Resting dolphins often '**snag**' at the surface for a few seconds, or even minutes. '**Snagging**' can be identified by a dolphin floating at the surface motionless, with their fluke and often the majority of the dorsal fin beneath the water, while the front part of their body is exposed to the air. They look a little like sausages when they do this, hence the term.

Sometimes you will see dolphins scan their head from side to side while snagging. This most likely means they are using their echolocation to take a scan of the area. They may do this while foraging too.

Socialising



Like humans, dolphins are very social animals who continuously interact with each other. Dolphins display a remarkable variety of social behaviour.

A socialising group is often a tight group of dolphins with a lot of body-to-body contact between individuals. Dolphins may rub their bellies together or against each other, they may stroke each other with their pectoral fin or nudge each other with their rostrum. Their bellies often turn pink when they are socialising because the tissue becomes perfused (blood flowing close to the skin) with blood.

Sometimes, you may see leaps, porpoising, and/or fast swims when dolphins are chasing each other. These behaviours can also occur while dolphins are foraging, so it's a good idea to watch for a while before jumping to conclusions about what dolphins are doing. You can also see calves socialising with each other while their mothers are foraging.

Not all social interactions between individuals are friendly. Some interactions, particularly among males, are antagonistic. The rake marks you see on many dolphins are caused by other dolphins' teeth as a result of unfriendly interactions.

Commonly observed behavioural events

Fast swim



Dolphins swimming at faster than normal cruising speeds. Dolphins may swim fast when chasing fish (foraging) or chasing each other (socialising). You may see a spray of water come off the dolphin.

Dolphins chasing fish



To record dolphins chasing fish, you must observe the fish being pursued. Dolphins regularly chase fish along the edge of the rivers and other structures and often the fish can be seen jumping out of the water. When snacking, a dolphin swims belly-up near the surface chasing after small fish.

Leap



The entire body of a dolphin is out of the water. Leaps may occur when dolphins are foraging (i.e. a quick breath so they can get back underwater rapidly) or when they are socialising.

Dolphin with fish



Dolphins observed with fish (including cephalopods like squid and octopus) in their rostrum. Sometimes dolphins toss fish up in the air or repeatedly on the surface to immobilise or break their prey into smaller pieces. If you are able to confirm which species the dolphins are chasing, please note this.

Rooster tail



A fast swim along the surface in which a sheet of water trails off the dorsal fin. Typically observed in the shallows when dolphins are foraging.

Snagging



Dolphins hanging motionless at the surface with their flukes beneath the water and the front half of their body at the surface. They look like sausages when doing this, hence the term 'snagging'. Dolphins may turn their head from side to side to scan the water. Snagging most often occurs during resting bouts but may occur during pauses in other activities.

Commonly observed behavioural events

Body-to-body contact



Obvious social interaction between dolphins usually involves body-to-body contact. You will often see splashes, fast swims or leaps by dolphins interacting with each other and their bellies flushed pink with excitement. Socialising often occurs in tightly-spaced groups.

Baby position



Calves travelling just behind and to one side of their mother. When a calf surfaces in baby position (BP), its head surfaces near the mother's midsection. Travelling in BP provides a small hydrodynamic benefit for the calf and also easy access to the mammary slits located in the mother's tail region for feeding. Young calves spend a lot of time in BP. As they grow older, they gradually spend less and less time in BP and venture further away from their mother until eventually they are fully weaned. The best way to confirm BP is to see if the calf is substantially smaller than the mother and whether the calf maintains BP for several surfacings.



Moon's story

My name is Moon and I'm one of the oldest females residing the waterways you call the Swan Canning Riverpark.

Many of you will know me well by now. I have been around for more than two decades with scientists taking their first photos of me back in 2001. Scientists described me as an adult back then, meaning that I could be within my thirties.

I spent most of my adult life with Tupac and Highnitch, although both died from fishing line entanglement and the Cetacean Morbillivirus in the last couple of years. Like my friends, I became a mum several times, but one at a time. My time as a mum has not been easy, especially during the past three years.

Night is my oldest son, at least the first one scientists recorded as a calf back in 2011. Night has been going well and used to hang out with his best buddy of same age Zari. Unfortunately, Zari died from the Cetacean Morbillivirus in 2019. His other buddy of same age, Gizmo, also died a few years ago. While there are no other dolphins of his age living in the estuary, I'm sure he will find a least one good friend with whom he will spend most of his time.

When Night was old enough to look after himself, I got pregnant and gave birth to Night's sister in May-June 2014. She was named Djinda by Rhonda Harman and her name means 'Star' in the Noongar language. She is a sweet girl and spends a lot of time with the youngest juveniles. She's been able to look after herself for a few years now but still loves to hang out with me every now and again.

My next pregnancy did not end well as I gave birth to a stillborn calf in January 2018. It was a very hard time, I was carrying my dead calf for several days while mourning, perhaps to exhaustion after a few days when I let it go. Scientists did not retrieve its body to understand why my calf did not survive. Although keeping my calf for a few days after death is not helping research, scientists understand and respect the grieving of a mother and they will never attempt to take it out of my flippers unless I put myself at high risk of exhaustion.

Just a couple of months later, I got pregnant again and gave birth to a beautiful girl in March 2019. Everything was going well until she got entangled in a crab pot and associated rope and drowned. Here I was again mourning my calf and carrying her around. Staff from the Parks and Wildlife Service gave a bit of help on this occasion and cut my calf free of the crab pot so I could continue mourning.

Those last few years caused a lot of pain. Much of this pain could have been avoided if fishing gear were used responsibly and discarded of properly.

Since July 2020, I'm enjoying being a mum again to another beautiful soul and I hope that nothing bad will ever happen to it. Please remember to be DolphinWise and RiverWise.



Facts – Cetacean Morbillivirus

What is Cetacean Morbillivirus (CeMV)?

Cetacean Morbillivirus or CeMV is a naturally occurring viral disease that affects a wide range of cetacean species (both toothed and baleen species i.e. dolphins, porpoises and some whale species). It is the most significant natural cause of cetacean sickness/death globally, with multiple outbreaks documented worldwide – most commonly in the Mediterranean Sea and the Atlantic Ocean. CeMV is caused by a group of virus strains that originate from a single virus species. These strains are related to viruses that occur in other species like dogs, seals, cattle, pigs, giraffes, camels, deer, goats, sheep, and humans (measles virus). CeMV is most closely related to the viruses in goats, sheep, cattle and pigs. CeMV only affects cetaceans, not other species. Humans are not at risk.

How many Swan Canning Riverpark dolphins have died from CeMV in this unusual mortality event in 2019, and how does it compare to 2009?

As of December 2019, four Swan Canning Riverpark residents; Zari, Echo, Nala and Tupac (and her new calf as a consequence of losing its mother); died due to CeMV, between February and May 2019 and November and December 2019.

In 2009, six Swan Canning Riverpark resident dolphins died over a five-month period. Two of the animals tested positive for CeMV. Although it is suspected that CeMV played a part in the deaths of all six, testing was inconclusive for the other four animals due to various confounding issues. It appears that this virus resurfaced in dolphins in Perth waters 10 years on from the first documented occurrence.

How does CeMV spread, i.e. how is it transmitted from one animal to the next?

Research carried out overseas and in eastern Australia indicates that the virus is present naturally at a baseline level within some of the off-shore pelagic species, such as pilot whales and possibly melon-headed whales. These animals are highly social and frequently travel in large groups, meaning the virus can continue to survive in whale groups. It is likely that when such species make periodic incursions closer in-shore (e.g. foraging, stranding if sick), they may come in close contact with in-shore/resident estuarine dolphins and other cetaceans, who are very social and inquisitive. As the virus is highly transmissible, it can then spread from animal to animal via infected particles they breathe out in their blow, with another animal then breathing them in (much like the way humans can catch respiratory viruses like colds). Although this respiratory route is the most important mode of transmission, there is also evidence the virus can spread from mother to foetus/calf. The virus cannot survive in the environment outside of a cetacean host.

What can we do to help dolphins, whales and other marine fauna?

Be DolphinWise, Be RiverWise.

Be Dolphin Wise

It's easy to help care for dolphins in the Riverpark by following these simple rules:



Enjoy dolphins from a distance – never approach a wild dolphin and ensure you stay at least 30m away if you're in the water or 100m if you're in a boat.



Go slow for those below – dolphins often form resting groups in the middle reaches of the Riverpark, so keep an eye out for dolphins, and slow down if you spot any.



Let dolphins feed themselves – it is illegal to feed dolphins and leaves them vulnerable to entanglement, boat strikes and disease.



Support a clean marine environment – take your rubbish home – when fishing on the rivers please fish responsibly. Dolphins, particularly calves, can become entangled in fishing line. Make sure you dispose of unwanted fishing line in a rubbish bin, use a biodegradable fishing line and help sustain fish stocks by taking only what you need.



If you see dolphins in distress, call the Wildcare Helpline on **(08) 9474 9055**. The helpline provides round-the-clock assistance for anyone who finds sick or injured native wildlife.

If we want to continue to see dolphins in the Riverpark we must protect its ecological health so that these food resources remain available and abundant.

Be RiverWise

The Swan and Canning rivers are an important habitat for bottlenose dolphins. The Riverpark serves as a nursery to raise their calves and as a meeting place to socialise and feed. Good quality habitat in the river system will continue to support the growth, survival and reproduction of these dolphins.

There are abundant fish resources in the Riverpark with a large number of fish species and a multitude of invertebrates, including crabs, prawns and molluscs.

If we want to continue to see dolphins in the Riverpark we must protect its ecological health so that these food resources remain available and abundant.

Nutrients such as phosphorus and nitrogen can threaten Riverpark health by promoting algal blooms, deoxygenation and fish kills. We need to halve the amount of nutrients entering the Swan Canning river system to protect water quality and ecological health.

Everyone has a role to play in reducing nutrients and protecting dolphin habitat. You can do this by:

- only applying fertiliser when it's needed in spring or early autumn – follow application rate instructions, don't over-apply and never overwater
- growing local native plants – they need less water and fertiliser, and attract native birds, lizards and insects
- composting your leaves and grass clippings so they don't wash into drains and add nutrients to the rivers
- keeping garden weeds away from drains – they may end up in rivers and displace foreshore vegetation
- keeping harmful chemicals away from drains.

Check out riverguardians.com for more helpful tips and information.

Glossary

Calf – a dolphin still dependent on its mother, usually up to three years old, but some might become independent at a younger or older age (~ five years old).

Juvenile – a young, immature dolphin, usually about four to 10 years old.

Sub-adult – a dolphin that is not quite adult-size but larger than a juvenile, also not mature yet.

Adult – a mature, fully grown dolphin.

Dorsal fin – the fin on a dolphin's back (its dorsal surface), provides stability while swimming.

Leading edge (of dorsal fin) – the front edge of the fin (versus trailing edge).

Pectoral fin – fins on dolphin's side, provide directional control and can also be used for touching when socialising.

Peduncle – an anatomical term for the tail stock of a dolphin, the large muscle system that propels the dolphin through water.

Tail fluke – used for propulsion.

Blowhole – hole at the top of a dolphin's head through which the animal breathes air.





Department of Biodiversity,
Conservation and Attractions



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