

Date : 7/06/2018 3:07:42 PM
From : "Exhibited Animals Enquiry"
To : "SERAFIN Kate"
Subject : FW: new animal exhibit Sea Jellies
Attachment : image001.jpg;image001.png;image002.png;
fyi



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M s.73 Irrelevant@vrtp.com.au F 07 3087 8328
E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
Exhibited Animal Applications: exhibitedanimalapplications@daf.qld.gov.au

Exhibited Animal Enquiries: exhibitedanimalenquiry@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: s.73 Irrelevant@vrtp.com.au
Sent: Thursday, 7 June 2018 7:29 AM
To: Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>
Subject: Re: new animal exhibit Sea Jellies

Thanks Kate, I appreciate the prompt reply.

I have met with Danielle Stewart recently and there are no requirements from a Fisheries perspective.

Cheers

s.73 Irrelevant@vrtp.com.au

Sent from my iPhone

On 7 Jun 2018, at 7:02 am, Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au> wrote:

Good morning s.73 Irrelevant@vrtp.com.au

Thank you for the species list.

I have checked the *Nature Conservation Act 1992* and as suspected none of these species are listed so you will not require anything under the *Exhibited Animals Act 2015*.

I will leave it to you to ensure that you are meeting any Fisheries requirements for the species.

Regards

Kate

From: s.73 Irrelevant@vrtp.com.au <s.73 Irrelevant@vrtp.com.au>
Sent: Wednesday, 6 June 2018 5:44 PM
To: SERAFIN Kate
Subject: RE: new animal exhibit Sea Jellies

Thanks Kate

Sorry, I got side tracked.

The main species we will be housing are the following:

Blue Blubbers (*Catostylus* sp.)
Upside down jelly (*Casseopia* species)
Moon jellies (*Aurelia aurita*)
Sea nettles (*Chrysaora kinthii*)
A few species of Comb jellies or Ctenophores such as *Pleurobrachia* sp. and *Mnemiopsis*
Purple striped jelly (*Pelagia* sp.)
Fire jelly (*Morbakka fenneri*)
Irukandji (*Carukia barnesi*)
Lions mane (*Cyanea* sp.)

2 species of imported jellies:
Chrysaora fuscescens and *Chrysaora quinquecirrha*)

There could be a couple of others that might turn up locally in our waterways which we might display but these will be our main species.

Thanks

[s.73 Irrelevant inf] Acting Head of Marine Sciences/Curator of Fishes | T: +61 7 [s.73 Irrelevant] F: +61 7 5588 2280 | M: [s.73 Irrelevant]
Sea World | Sea World Drive, Main Beach, QLD 4217 | www.myfun.com.au

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Wednesday, 6 June 2018 7:34 AM
To: [s.73 Irrelevant inf]
Subject: FW: new animal exhibit Sea Jellies

Good morning [s.73 Irrelevant]

Please see below email previously forwarded.

From: Exhibited Animals Enquiry
Sent: Friday, 4 May 2018 7:13 AM
To: [s.73 Irrelevant] vrtp.com.au
Cc: Exhibited Animals Enquiry
Subject: RE: new animal exhibit Sea Jellies

Good morning [s.73 Irrelevant]

Thanks for your email.

Could you provide a couple of scientific names of the species you will be displaying?

There are some invertebrates that are listed however I am sure that jellies are not listed under the *Nature Conservation Act 1992* (if they are they default to our Act) however I will check just in case if you provide some species names.

Regards

Kate

Regards

Exhibited Animals

Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
Level 2, 41 George Street, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: [s.73 Irrelevant inf] [[mailto:\[s.73 Irrelevant inf\]@vrtp.com.au](mailto:[s.73 Irrelevant inf]@vrtp.com.au)]
Sent: Thursday, 3 May 2018 3:14 PM
To: SERAFIN Kate
Cc: [s.73 Irrelevant inform]
Subject: new animal exhibit

Hi Kate

As you may or may not know we are currently building a new exhibit here at Sea World to display sea jellies. As [s.73 Irrelevant] and I are both pretty new to our jobs we are not sure if we need to get our new sea jelly exhibit approved by your office?

We are currently still under construction but plan to open by July all going well with the breeding and collection of the sea jellies.

Please advise if we need to submit an application for approval of this new facility and if you or someone from your department needs to attend and give approval?

Thanks

[s.73 Irrelevant]

<image001.jpg>

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Date : 6/06/2018 7:33:58 AM
From : "SERAFIN Kate"
To : [s.73 Irrelevant information]
Subject : FW: new animal exhibit Sea Jellies
Attachment : image001.jpg;
Good morning [s.73 Irrelevant information]

Please see below email previously forwarded.

From: Exhibited Animals Enquiry
Sent: Friday, 4 May 2018 7:13 AM
To: [s.73 Irrelevant information] <[s.73 Irrelevant information]@vrtp.com.au>
Cc: Exhibited Animals Enquiry
Subject: RE: new animal exhibit Sea Jellies

Good morning [s.73 Irrelevant information]

Thanks for your email.

Could you provide a couple of scientific names of the species you will be displaying?

There are some invertebrates that are listed however I am sure that jellies are not listed under the *Nature Conservation Act 1992* (if they are they default to our Act) however I will check just in case if you provide some species names.

Regards

Kate

Regards

Exhibited Animals

Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: [s.73 Irrelevant information] <[s.73 Irrelevant information]@vrtp.com.au>
Sent: Thursday, 3 May 2018 3:14 PM
To: SERAFIN Kate
Cc: [s.73 Irrelevant information]
Subject: new animal exhibit

Hi Kate

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Please advise if we need to submit an application for approval of this new facility and if you or someone from your department needs to attend and give approval?

Thanks

[s.73 Irrelevant information]

[s.73 Irrelevant information] | Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 [s.73 Irrelevant information] F: +61 7 5588 2280 | M: [s.73 Irrelevant information]
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



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Date : 6/09/2018 1:40:27 PM

From : "SERAFIN Kate"

To : "s.73 Irrelevant inf

BCc : "RODGER Ian"

Subject : RE: Minimum Standards for Exhibiting Seals in QLD

Attachment : image001.jpg;

Good afternoon s.73 Irrelev

QLD would accept the proposed standards.

Regards

Kate

From: s.73 Irrelevant information@vrtp.com.au>

Sent: Thursday, 6 September 2018 12:03 PM

To: SERAFIN Kate

Subject: Minimum Standards for Exhibiting Seals in QLD

Dear Kate

Im hoping you can assist me were looking at upgrading some of our older Seal holding areas, can you please advise me if the Standards for Exhibiting Seals in New South Wales Exhibited Animals Protection Act 1986 are the latest and the ones which QLD have accepted. If not could you please direct me to the most recent standards that you are looking for.

I hope life is going well and hope to catch up soon.

Cheers

s.73 Irrelevant Assistant General Manager /Director of Marine Sciences, Sea World | T: +61 7 s.73 Irrelevant | F: +61 7 5588 2280 | Village Roadshow Theme Parks | Sea World Drive, Main Beach, Qld 4217. seaworld.com.au



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Date : 4/05/2018 7:13:01 AM
From : "Exhibited Animals Enquiry"
To : s.73 Irrelevant@vrtp.com.au"
Cc : "Exhibited Animals Enquiry"
Subject : RE: new animal exhibit Sea Jellies
Attachment : image001.jpg;
Good morning s.73 Irrelevant

Thanks for your email.

Could you provide a couple of scientific names of the species you will be displaying?

There are some invertebrates that are listed however I am sure that jellies are not listed under the *Nature Conservation Act 1992* (if they are they default to our Act) however I will check just in case if you provide some species names.

On another note, how are the rays doing?

Have there been any further deaths since moving them back into the enclosure and giving a vaccine?

Regards

Kate

Regards

Exhibited Animals

Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
Level 2, 41 George Street, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: s.73 Irrelevant i. mailto: s.73 Irrelevant i. @vrtp.com.au]
Sent: Thursday, 3 May 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant infor
Subject: new animal exhibit

Hi Kate

As you may or may not know we are currently building a new exhibit here at Sea World to display sea jellies. As s.73 Irrelevant and I are both pretty new to our jobs we are not sure if we need to get our new sea jelly exhibit approved by your office?

We are currently still under construction but plan to open by July all going well with the breeding and collection of the sea jellies.

Please advise if we need to submit an application for approval of this new facility and if you or someone from your department needs to attend and give approval?

Thanks

s.73 Irrelevant in

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RTI Act 2009

Date : 1/06/2018 8:54:11 AM
From : "SERAFIN Kate"
To : s.73 Irrelevant informatio
Cc : "SAVOCA Rosie"
Subject : RE: Ray reef exhibit at Sea World

Thank you s.73 I

When the exhibit is opened will public interaction occur?

Regards

Kate

-----Original Message-----

From: s.73 Irrelevant info@vrtp.com.au>
Sent: Thursday, 31 May 2018 12:44 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant info
Subject: Ray reef exhibit at Sea World

Hi Kate

We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

The entire exhibit has been sterilised, all the substrate change for new substrate and we will have completed the second round of vaccinations by the end of tomorrow. We are still having the occasional mortality. We had none for a week then 3 this week. It is still showing up as Steptococcus agalactiae on pathology.

We are discussing a possible date to reopen the exhibit. Is there any requirement from your end before we open the exhibit again?

Thanks

s.73 I

Acting Head of Marine Sciences
Sea World

Sent from my iPhone

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Date : 20/06/2017 12:36:47 PM
From : "SAVOCA Rosie"
To : s.73 Irrelevant info
Cc : "SERAFIN Kate"
Subject : RE: Dolphin procedure
Attachment : image001.png;image002.png;
Hi s.73 Irrelevant

Thank you for letting us know. Hope all goes well.

For future emails can you please ensure they are sent to inbox address exhibitedanimalenquiry@daf.qld.gov.au
This is an inbox all staff have access to and will ensure your email is addressed if some staff are away or out of the office.

Thank you



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M s.73 Irrelevant F 07 3087 8328
E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
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Exhibited Animal Enquires: exhibitedanimalenquiry@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: s.73 Irrelevant [mailto:s.73 Irrelevant@vrtp.com.au]
Sent: Tuesday, 20 June 2017 12:18 PM
To: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Dolphin procedure

Hi Rosie,

Just letting you know that we are taking a dolphin from Sea World to the Veterinary Specialist Services Centre in Carrara on Thursday morning for a CT scan. Should only be away from the park for a few hours and then will return.

s.73 Irrelevant
Veterinarian, Sea World

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Date : 7/06/2018 7:02:39 AM
From : "Exhibited Animals Enquiry"
To : "s.73 Irrelevant inf"
Subject : RE: new animal exhibit Sea Jellies
Attachment : image001.jpg;
Good morning s.73 Ir

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Regards

Kate

From: s.73 Irrelevant information <s.73 Irrelevant information@vrtp.com.au>
Sent: Wednesday, 6 June 2018 5:44 PM
To: SERAFIN Kate
Subject: RE: new animal exhibit Sea Jellies

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Sorry, I got side tracked.

The main species we will be housing are the following:

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Upside down jelly (*Casseopia* species)
Moon jellies (*Aurelia aurita*)
Sea nettles (*Chrysaora kinthii*)
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Lions mane (*Cyanea* sp.)

2 species of imported jellies:
Chrysaora fuscescens and *Chrysaora quinquecirrha*)

There could be a couple of others that might turn up locally in our waterways which we might display but these will be our main species.

Thanks

s.73 Irrelevant information | Acting Head of Marine Sciences/Curator of Fishes | T: +61 7 s.73 Irrelevant information F: +61 7 5588 2280 | M: s.73 Irrelevant information
Sea World | Sea World Drive, Main Beach, QLD 4217 | www.myfun.com.au

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Wednesday, 6 June 2018 7:34 AM
To: s.73 Irrelevant information
Subject: FW: new animal exhibit Sea Jellies

Good morning s.73 Ir

Please see below email previously forwarded.

From: Exhibited Animals Enquiry
Sent: Friday, 4 May 2018 7:13 AM
To: s.73 Irrelevant information@vrtp.com.au'
Cc: Exhibited Animals Enquiry
Subject: RE: new animal exhibit Sea Jellies

Good morning s.73 Ir

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Regards

Kate

Regards

Exhibited Animals

Biosecurity Queensland
Department of Agriculture and Fisheries

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From: s.73 Irrelevant info [mailto:s.73 Irrelevant info@vrtp.com.au]
Sent: Thursday, 3 May 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant info
Subject: new animal exhibit

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s.73 Irrelevant info

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RTI Act 2009

Date : 3/04/2018 3:14:05 PM

From : s.73 Irrelevant informa

To : "SERAFIN Kate"

Cc : s.73 Irrelevant informa

Subject : Ray Reef

Attachment : ISSUE PAPER RE RECENT DEATHS IN STINGRAYS AT SEA WORLD 2018.doc;Bowater_et_al-2017-Journal_of_Fish_Diseases.pdf;image001.jpg;

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian s.73 Irrelevant outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or s.73 Irrelevant on s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant info

Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 s.73 Irrelevant F: +61 7 5588 2280 | M s.73 Irrelevant i

Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



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ISSUE PAPER RE RECENT DEATHS IN RAYS AT SEA WORLD

Background

Over the last month there have been twenty-six (26) mortalities in the ray population at Sea World (see attached spreadsheet). All of these deaths have occurred in the one exhibit - Ray Reef. Multiple species have been affected but Estuary Rays have accounted for the majority of the mortalities (19/26 or 73%). Clinical signs have ranged from a lightening in colour, lethargy and inappetance to sudden death.

Present Position:

A bacterium known as *Streptococcus agalactiae* has been isolated from the majority of dead animals. This bacterium caused a similar outbreak in rays at Sea World in 2009 and 2010 (see attached paper). It is a fish specific strain and has not been known to cause illness in people. The bacterium is susceptible to a number of antibiotics but treatments implemented so far (oral amoxicillin and oxytetracycline baths) have been ineffective in halting the mortalities.

Comment:

At this stage it is unclear how the bacterium is infecting the rays. It may be entering their bodies through small wounds or through their gills or via the gastrointestinal tract via the food. The most likely route of entry is through small defects in the skin such as bite or scratch wounds.

Recommendation:

- Remove all rays from this exhibit and thoroughly disinfect the exhibit (this is occurring on the 3/4/18)
- Treat all remaining rays with oxytetracycline bath (3/4/18)
- Vaccinate all rays before reintroducing them to the exhibit
- Maintain strict biosecurity measures in an attempt to stop the spread of this disease to other pools or exhibits
- Maintain high personal hygiene standards amongst the divers/aquarists.

s.73 Irrelevant inform

Veterinarian, Sea World

Date : 4/04/2018 1:09:22 PM

From : "SERAFIN Kate"

To : s.73 Irrelevant information

Subject : Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Attachment : ISSUE PAPER RE RECENT DEATHS IN STINGRAYS AT SEA WORLD 2018.doc; Bowater_et_al-2017-Journal_of_Fish_Diseases.pdf; Exhibited Animals Act 2015.pdf; image001.jpg; image002.png; image004.png;

Good afternoon s.73 Irrelevant in

s.73 Irrelevant thanks for attaching the paper and for advising us of the issue.

Thank for your time on the phone this morning s.73 Irrelevant and for advising that you have contacted the relevant authorities WH&S/ Fisheries.

Unexplained or abnormally high mortality rate or morbidity of animals recorded on your Exhibition Licence is considered a serious incident under s80 of the *Exhibited Animals Act 2015*. Please ensure that in future and as per s81 of the Act, the park notifies Exhibited Animals as soon as it becomes aware of any of the listed issues under s80 of the Act. I have attached the Act for your reference.

Excluding the attached information I have noted that;

- There have been no wild caught intakes into the exhibit for a number of years.
- In recent years population control measures have been implemented to ensure breeding does not occur – no transfers out.
- There has been no public interaction with the various species of ray.
- A vaccine will be created as required once testing is confirmed.
- All rays have been placed in quarantine tanks and are being treated and will continue to be treated.
- The exhibit has been emptied and is undergoing treatment.
- The exhibit water is filtered through other exhibits however no other spp. in separate exhibits are showing signs/symptoms of *Streptococcus agalactiae*.

As discussed could you please provide a general update mid next week regarding testing, mortality etc.

Many thanks

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M s.73 Irrelevant kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
Level 2, 41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: s.73 Irrelevant [mailto:s.73 Irrelevant@vrtp.com.au]

Sent: Tuesday, 3 April 2018 3:14 PM

To: SERAFIN Kate

Cc: s.73 Irrelevant

Subject: Ray Reef

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian s.73 Irrelevant outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or s.73 Irrelevant on s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant in

Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 s.73 Irrelevant F: +61 7 5588 2280 | M: s.73 Irrelevant
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



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ISSUE PAPER RE RECENT DEATHS IN RAYS AT SEA WORLD

Background

Over the last month there have been twenty-six (26) mortalities in the ray population at Sea World (see attached spreadsheet). All of these deaths have occurred in the one exhibit - Ray Reef. Multiple species have been affected but Estuary Rays have accounted for the majority of the mortalities (19/26 or 73%). Clinical signs have ranged from a lightening in colour, lethargy and inappetance to sudden death.

Present Position:

A bacterium known as *Streptococcus agalactiae* has been isolated from the majority of dead animals. This bacterium caused a similar outbreak in rays at Sea World in 2009 and 2010 (see attached paper). It is a fish specific strain and has not been known to cause illness in people. The bacterium is susceptible to a number of antibiotics but treatments implemented so far (oral amoxicillin and oxytetracycline baths) have been ineffective in halting the mortalities.

Comment:

At this stage it is unclear how the bacterium is infecting the rays. It may be entering their bodies through small wounds or through their gills or via the gastrointestinal tract via the food. The most likely route of entry is through small defects in the skin such as bite or scratch wounds.

Recommendation:

- Remove all rays from this exhibit and thoroughly disinfect the exhibit (this is occurring on the 3/4/18)
- Treat all remaining rays with oxytetracycline bath (3/4/18)
- Vaccinate all rays before reintroducing them to the exhibit
- Maintain strict biosecurity measures in an attempt to stop the spread of this disease to other pools or exhibits
- Maintain high personal hygiene standards amongst the divers/aquarists.

s.73 Irrelevant inform

Veterinarian, Sea World

Date : 3/04/2018 6:44:16 PM
From : "BUNCE Ashley"
To : "SERAFIN Kate"
Cc : "SAVOCA Rosie"
Subject : Re: Ray Reef
Attachment : image001.jpg;
Thanks Kate.

I will give you a call tomorrow.

Should Sea World also notify WHSQ?

Cheers,
Ash

On 3 Apr 2018, at 4:48 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

FYI I have not contacted them yet.

I will also ensure they have contacted fisheries.

From: s.73 Irrelevant i [mailto:s.73 Irrelevant@vrtp.com.au]
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant i
Subject: Ray Reef

Hi Kate

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Please contact myself or s.73 Irrelevant or s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant info

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Date : 4/04/2018 12:55:06 PM
From : "BUNCE Ashley"
To : "SERAFIN Kate"
Cc : "RODGER Ian" , "SAVOCA Rosie"
Subject : FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit
Attachment : image002.png;image005.jpg;image001.png;
FYI and advice

From: CROOK Allison
Sent: Wednesday, 4 April 2018 12:54 PM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>
Subject: RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

Thanks for the update – can you confirm no public contact with the rays?

From: BUNCE Ashley
Sent: Wednesday, 4 April 2018 10:26 AM
To: CROOK Allison <Allison.Crook@daf.qld.gov.au>
Subject: FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

FYI

From: SERAFIN Kate
Sent: Wednesday, 4 April 2018 10:24 AM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>
Cc: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

Seaworld Vet

s.73 Irrelevant in

Good morning Ash/Ian

Just a quick update on the *S. agalactiae* ray outbreak at Seaworld after talking to s.73 Irrelevant

- As per the email notification there has been an outbreak of *Streptococcus agalactiae* in the Seaworld Ray Reef exhibit with 26 mortalities over various ray spp. Predominantly Estuary rays however there were also other spp. held.
- Noting that there are very small distinctions between isolates during testing of wild caught populations I have asked s.73 Irrelevant if molecular characterization had been carried out or is it an assumption that the isolates are the same lineage sequence as the last outbreak?
- s.73 Irrelevant has advised that they are assuming at this point in time but have carried out testing and are waiting on results.
- I have asked him if a targeted vaccine will be created if the results confirm a different serotype to the last outbreak – the answer was yes and they shall continue annual vaccinations.
- When asked what the last vaccination program involved s.73 Irrelevant advised it was a 2 x 4 week apart vaccination followed by annual vaccination if required (signs, symptoms).
- s.73 Irrelevant confirmed that the tank does filter the same water through Shark Bay water however they have large filtration systems and are running UV over the filtration lines – s.73 Irrelevant has advised that other species were not affected last time either (prevalent in the rays rather than sharks etc.)
- All ray spp. have been taken out of the tank and placed in quarantine pools. The tank has been stripped down and is currently being treated.
- I questioned s.73 Irrelevant about ray transfers and he has advised that they have not had an intake (from the wild) since the last outbreak and have ceased breeding the rays to ensure population control.
- s.73 Irrelevant also confirmed that they are not releasing any individuals into the wild given they have taken steps to ensure breeding does not occur.
- s.73 Irrelevant advised that the park has contacted relevant people WH&S/Fisheries and even though the risk is low they are taking measures to ensure staff are protected.

I have asked s.73 Irrelevant to keep us in the loop and advise once tests are confirmed.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: BUNCE Ashley
Sent: Tuesday, 3 April 2018 6:44 PM
To: SERAFIN Kate
Cc: SAVOCA Rosie
Subject: Re: Ray Reef

Thanks Kate.

I will give you a call tomorrow.

Should Sea World also notify WHSQ?

Cheers,
Ash

On 3 Apr 2018, at 4:48 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

FYI – I have not contacted them yet.

I will also ensure they have contacted fisheries.

From: [s.73 Irrelevant](#) [mailto:s.73 Irrelevant in vrtp.com.au]
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: [s.73 Irrelevant](#)
Subject: Ray Reef

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Please see attached issues paper by our veterinarian [s.73 Irrelevant](#) outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or [s.73 Irrelevant](#) or [s.73 Irrelevant](#) if you require additional information regarding this issue.

Kind regards,

[s.73 Irrelevant in](#)
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<ISSUE PAPER RE RECENT DEATHS IN STINGRAYS AT SEA WORLD 2018.doc>

<Bowater_et_al-2017-Journal_of_Fish_Diseases.pdf>

Published on DAF Disclosure Log
RTI Act 2009

Date : 5/04/2018 4:45:37 PM

From : [s.73 Irrelevant info]

To : "SERAFIN Kate" [s.73 Irrelevant inform]

Subject : RE: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Attachment : image002.png;image003.png;image005.jpg;

Hi Kate,

Just to clarify a few points:

We have not notified fisheries as we were not aware of any necessity to do that.

The exhibit in which the rays were kept is a public contact exhibit where people feed the animals. This was closed to the public on 12th March 2018, as soon as we had diagnosed the problem.

[s.73 Irrelevant] is at work next week Mon/Tues if you wanted to have a phone hook up either of those days to assess where we are at. Otherwise I will be around all week.

[s.73 Irrelevant]

From: SERAFIN Kate [mailto:Kate.Serafin@daf.qld.gov.au]

Sent: Wednesday, 4 April 2018 1:09 PM

To: [s.73 Irrelevant information]

Subject: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Good afternoon [s.73 Irrelevant info]

[s.73 Irrelevant] thanks for attaching the paper and for advising us of the issue.

Thank for your time on the phone this morning [s.73 Irrelevant] and for advising that you have contacted the relevant authorities WH&S/ Fisheries.

Unexplained or abnormally high mortality rate or morbidity of animals recorded on your Exhibition Licence is considered a serious incident under s80 of the *Exhibited Animals Act 2015*. Please ensure that in future and as per s81 of the Act, the park notifies Exhibited Animals as soon as it becomes aware of any of the listed issues under s80 of the Act. I have attached the Act for your reference.

Excluding the attached information I have noted that;

- There have been no wild caught intakes into the exhibit for a number of years.
- In recent years population control measures have been implemented to ensure breeding does not occur ♦ no transfers out.
- There has been no public interaction with the various species of ray.
- A vaccine will be created as required once testing is confirmed.
- All rays have been placed in quarantine tanks and are being treated and will continue to be treated.
- The exhibit has been emptied and is undergoing treatment.
- The exhibit water is filtered through other exhibits however no other spp. in separate exhibits are showing signs/symptoms of *Streptococcus agalactiae*.

As discussed could you please provide a general update mid next week regarding testing, mortality etc.

Many thanks

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: [s.73 Irrelevant info] [mailto:[s.73 Irrelevant info]@vrtp.com.au]

Sent: Tuesday, 3 April 2018 3:14 PM

To: SERAFIN Kate

Cc: [s.73 Irrelevant]

Subject: Ray Reef

Hi Kate

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Please contact myself or [s.73 Irrelevant] on [s.73 Irrelevant] if you require additional information regarding this issue.

Kind regards,

[s.73 Irrelevant in]

[s.73 Irrelevant]
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Date : 6/04/2018 11:59:41 AM
From : "SERAFIN Kate"
To : "RODGER Ian" , "SAVOCA Rosie"
Subject : Fwd: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit
Attachment : image003.png;image005.jpg;

Kate Serafin

Senior Policy Officer, Exhibited Animals Unit, Biosecurity Queensland Corporate

DAF

T: [07 3087 8024](tel:0730878024) M: [s.73 Irrelevant](mailto:s.73@vrti.com.au)

F: [07 3087 8328](tel:0730878328) W: www.daf.qld.gov.au

E: kate.serafin@daf.qld.gov.au

E: exhibitedanimalenquiry@daf.qld.gov.au

Sent from my iPhone

Begin forwarded message:

From: [s.73 Irrelevant information <s.73@vrti.com.au>](mailto:s.73@vrti.com.au)
Date: 5 April 2018 at 4:45:37 pm AEST
To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>, [s.73 Irrelevant information <s.73@vrti.com.au>](mailto:s.73@vrti.com.au)
Subject: RE: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Hi Kate,

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[s.73 Irrelevant](mailto:s.73@vrti.com.au) is at work next week Mon/Tues if you wanted to have a phone hook up either of those days to assess where we are at. Otherwise I will be around all week.

[s.73 Irrelevant](mailto:s.73@vrti.com.au)

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Sent: Wednesday, 4 April 2018 1:09 PM
To: [s.73 Irrelevant information](mailto:s.73@vrti.com.au)
Subject: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit


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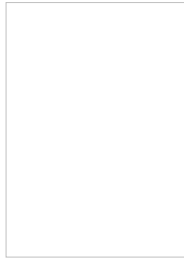
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Many thanks

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
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Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: s.73 Irrelevant in mailto:s.73 Irrelevant@vrtp.com.au
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant
Subject: Ray Reef

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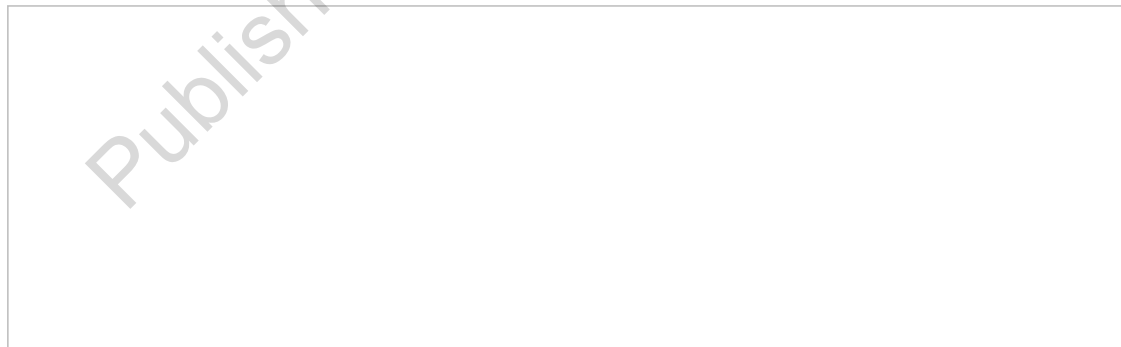
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Please contact myself or s.73 Irrelevant on s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant

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Published on DAF Disclosure Log
RTI Act 2009

Date : 10/04/2018 9:14:15 AM
From : "SERAFIN Kate"
To : "STEWART Danielle"
Cc : "SAVOCA Rosie"
Subject : RE: Seaworld Ray Reef exhibit - disease outbreak
Attachment : image001.png;image002.png;

Hi Dani

Yes, we are just asking to be kept in the loop given that they have ceased taking in from the wild and releasing into the wild.

We also look at it from a potential health hazard and notifiable disease issue however they ceased public interaction and it is not a notifiable so it comes back to animal welfare and ensuring their management practices are ok.

They are waiting on results before developing a serotype specific vaccine.

Regards

Kate

From: STEWART Danielle
Sent: Monday, 9 April 2018 7:37 AM
To: SERAFIN Kate
Subject: RE: Seaworld Ray Reef exhibit - disease outbreak

Hey Kate,

Keep us across it if you can. I am down at Seaworld in a couple of weeks to talk to them about their permits etc. Are you guys just asking them to inform you as the situation progresses?

Dani

From: SERAFIN Kate
Sent: Friday, 6 April 2018 6:45 AM
To: STEWART Danielle <Danielle.Stewart@daf.qld.gov.au>
Subject: Seaworld Ray Reef exhibit - disease outbreak

Morning Danielle

Don't know if you guys need to know but Seaworld has advised that one of their ray tanks has had an outbreak of *Streptococcus agalactiae* and there has been high mortality rates.

Let me know if this is something you guys handle and I will forward the rest of the information that we have received.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

Date : 12/04/2018 1:14:06 PM
From : "SERAFIN Kate"
To : "BUNCE Ashley" , "RODGER Ian"
Cc : "SAVOCA Rosie"
Subject : Sea World Ray Exhibit Update - Streptococcus agalactiae outbreak
Attachment : image001.png;image003.png;
Hi All

I have contacted [s.73 Irrelev] (Sea World vet) to see how things are going with the rays currently in quarantine.

[s.73 Irrelev] as advised the following;

- They have only lost one animal in the last week however [s.73 Irrelev] believes that the animal died from other causes – older animal, waiting on results.
- They now have a vaccine.
- They will vaccinate 3 animals initially wait around 5 days to ensure there are no adverse effects before obtaining more vaccine for the remaining animals.
- Completion of treatment for the ray exhibit will be finalised end of next week.
- Remaining animals will be vaccinated whilst being moved to the new exhibit.
- The only positive cultures have been directly from the animals and not from the environment within the exhibit itself.
- [s.73 Irrelev] did not have the numbers at hand but advised there are an estimated 25 to 30 animals remaining from the initial 50 animals.
- The park does not intend to breed the numbers up again in the near future and will continue to closely monitor the animals.
- I have requested [s.73 Irrelev] contact us if/when they decide to start public interaction again – [s.73 Irrelev] advised that this will not occur until they are satisfied that the animals are no longer stressed or at risk of developing illness.

I will contact [s.73 Irrelev] or an update in two weeks.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

Date : 31/05/2018 12:43:38 PM
From : s.73 Irreleva
To : "SERAFIN Kate"
Cc : s.73 Irrelevant informatid
Subject : Ray reef exhibit at Sea World
Hi Kate

We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

The entire exhibit has been sterilised, all the substrate change for new substrate and we will have completed the second round of vaccinations by the end of tomorrow. We are still having the occasional mortality. We had none for a week then 3 this week. It is still showing up as Steptococcus agalactiae on pathology.

We are discussing a possible date to reopen the exhibit. Is there any requirement from your end before we open the exhibit again?

Thanks

s.73

Acting Head of Marine Sciences
Sea World

Sent from my iPhone

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3A__www.villageroadshow.com.au__&d=DwIFAg&c=tpTxlplKGw9ZbZSDlo0lybSstHDHtYksG4icXfalpk&r=7wMVN7wtSmRKv9OVEgdgBCg22_mlyTPHHIHD0bIM8IM&m=ZSQ4UzSQfNXtveifeNCvBodsjiLh4sm0RqXlml8g&s=YkFWcBdIkQos0YzPBt24ONcUPX

Date : 1/06/2018 5:56:36 PM

From : "RODGER Ian"

To : "SERAFIN Kate"

Subject : Re: Ray reef exhibit at Sea World

Thanks Kate

I think we should write back as intended with our recommendation. Do you want me to draft something up or do you feel it can wait until Tuesday?

Regards Ian

On 1 Jun 2018, at 2:10 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Kate Serafin

Senior Policy Officer, Exhibited Animals Unit, Biosecurity Queensland Corporate

DAF

T: 07 3087 8024 M: s.73 Irrelevant info@vtrp.com.au

F: 07 3087 8328 W: www.daf.qld.gov.au

E: kate.serafin@daf.qld.gov.au

E: ExhibitedAnimalsEnquiry@daf.qld.gov.au

Sent from my iPhone

Begin forwarded message:

From: s.73 Irrelevant info@vtrp.com.au

Date: 1 June 2018 at 1:27:31 pm AEST

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Cc: s.73 Irrelevant info@vtrp.com.au, SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: RE: Ray reef exhibit at Sea World

Hi Kate

We are not intending to have the public feeding for the next couple of weeks but people would still be able to put their hands into the tank.

s.73 Irrelevant info@vtrp.com.au

Curator of Fishes | T: +61 7 s.73 Irrelevant info@vtrp.com.au | F: +61 7 5588 2280 | M: s.73 Irrelevant info@vtrp.com.au
Sea World | Sea World Drive, Main Beach, QLD 4217 | www.myfun.com.au

-----Original Message-----

From: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Sent: Friday, 1 June 2018 8:54 AM

To: s.73 Irrelevant info@vtrp.com.au

Cc: SAVOCA Rosie

Subject: RE: Ray reef exhibit at Sea World

Thank you s.73 Irrelevant info@vtrp.com.au

When the exhibit is opened will public interaction occur?

Regards

Kate

-----Original Message-----

From: s.73 Irrelevant info@vtrp.com.au

Sent: Thursday, 31 May 2018 12:44 PM

To: SERAFIN Kate

Cc: s.73 Irrelevant info@vtrp.com.au

Subject: Ray reef exhibit at Sea World

Hi Kate

We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

The entire exhibit has been sterilised, all the substrate change for new substrate and we will have completed the second round of vaccinations by the end of tomorrow. We are still having the occasional mortality. We had none for a week then 3 this week. It is still showing up as Steptococcus agalactiae on pathology.

We are discussing a possible date to reopen the exhibit. Is there any requirement from your end before we open the exhibit again?

Thanks

s.73 Irrelevant info@vtrp.com.au

Acting Head of Marine Sciences
Sea World

Sent from my iPhone

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3A_www.villageroadshow.com.au_&d=DwIFAg&c=tpTxelpKGw9ZhZSDlo0lybSxHDHlYjksG4icXfalgk&r=7wMVN7wtSmRK9QVFgdgBGg22_mlyTPHHLHDblMI8IM&m=xZSQ4UzSQfNXtve6cNGVBodsgIL

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Date : 4/06/2018 9:13:18 AM

From : s.73 Irrelevant

To : "SERAFIN Kate"

Cc : s.73 Irrelevant informatio, "SAVOCA Rosie"

Subject : Re: Ray reef exhibit at Sea World

Hi Kate

We are planning to open Ray Reef tomorrow without the public feeding sessions. The public will still be able to touch the animals but the staff will be the only ones feeding the animals so we can monitor food intakes and food drive.

We will have a marine sciences staff member present at the exhibit for the next 6 day to answer questions and to monitor the rays throughout the day.

We will return to public feeds once we are happy with the rays behaviour and progress.

Kind regards

s.73 Irre

Sent from my iPhone

> On 1 Jun 2018, at 8:54 am, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

>

> Thank you s.73

>

> When the exhibit is opened will public interaction occur?

>

> Regards

>

> Kate

>

> -----Original Message-----

> From : s.73 Irrelevant info@vrtp.com.au>

> Sent: Thursday, 31 May 2018 12:44 PM

> To: SERAFIN Kate

> Cc: s.73 Irrelevant info

> Subject: Ray reef exhibit at Sea World

>

> Hi Kate

>

> We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

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> The entire exhibit has been sterilised, all the substrate change for new substrate and we will have completed the second round of vaccinations by the end of tomorrow. We are still having the occasional mortality. We had none for a week then 3 this week. It is still showing up as Steptococcus agalactiae on pathology.

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> We are discussing a possible date to reopen the exhibit. Is there any requirement from your end before we open the exhibit again?

>

> Thanks

>

> s.73

>

> Acting Head of Marine Sciences

> Sea World

>

> Sent from my iPhone

> ---

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Date : 4/06/2018 9:31:39 AM

From: s.73 Irrelevant

To : "SAVOCA Rosie"

Cc : "SERAFIN Kate", s.73 Irrelevant information

Subject : Re: Ray reef exhibit at Sea World

Attachment : image002.png;

Thanks Kate

Yes they have the ability and room to move away from the edges of the pool. The pool is 1.8 m deep so the animals can get far away if they choose.

s.73 Irrelevant

Sent from my iPhone

On 4 Jun 2018, at 9:21 am, SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au> wrote:

Hi s.73 Irrelevant

Thank you for providing this information.

As long as the animals have the ability to move away from the public if they want.

If you could please keep us updated how the progress goes that would be great.

Thanks

<image002.png>Rosie Savoca

Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M s.73 Irrelevant F 07 3087 8328

E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au

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Exhibited Animal Applications: exhibitedanimalapplications@daf.qld.gov.au

Exhibited Animal Enquiries: exhibitedanimalenquiry@daf.qld.gov.au

Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: s.73 Irrelevant mailto: s.73 Irrelevant@vrtp.com.au

Sent: Monday, 4 June 2018 9:13 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Cc: s.73 Irrelevant@vrtp.com.au; s.73 Irrelevant information@vrtp.com.au; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Re: Ray reef exhibit at Sea World

Hi Kate

We are planning to open Ray Reef tomorrow without the public feeding sessions. The public will still be able to touch the animals but the staff will be the only ones feeding the animals so we can monitor food intakes and food drive.

We will have a marine sciences staff member present at the exhibit for the next 6 day to answer questions and to monitor the rays throughout the day.

We will return to public feeds once we are happy with the rays behaviour and progress.

Kind regards

s.73 Irrelevant

Sent from my iPhone

> On 1 Jun 2018, at 8:54 am, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

>

> Thank you s.73 Irrelevant

>

> When the exhibit is opened will public interaction occur?

>

> Regards

>

> Kate

>

>

> -----Original Message-----

> From: s.73 Irrelevant information@vrtp.com.au

> Sent: Thursday, 31 May 2018 12:44 PM

> To: SERAFIN Kate

> Cc: s.73 Irrelevant information

> Subject: Ray reef exhibit at Sea World

>

> Hi Kate

>

> We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

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>

> We are discussing a possible date to reopen the exhibit. Is there any requirement from your end before we open the exhibit again?

>

> Thanks

>

> s.73 Irrelevant

>

> Acting Head of Marine Sciences

> Sea World

>

>

> Sent from my iPhone

> ---

>

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Date : 4/06/2018 9:43:19 AM

From : "SAVOCA Rosie"

To : [s.73 Irrelev]

Cc : "SERAFIN Kate" [s.73 Irrelevant informati]

Subject : RE: Ray reef exhibit at Sea World

Attachment : image001.png;image002.png;

Thanks [s.73]



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M [s.73 Ir] F 07 3087 8328
E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au
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Exhibited Animal Enquiries: exhibitedanimalenquiry@daf.qld.gov.au

Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: [s.73 Irrelev] [mailto:[s.73 Irrelev]@vrtp.com.au]

Sent: Monday, 4 June 2018 9:32 AM

To: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Cc: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; [s.73 Irrelevant in]@vrtp.com.au> [s.73 Irrelevant in]@vrtp.com.au>

Subject: Re: Ray reef exhibit at Sea World

Thanks Kate

Yes they have the ability and room to move away from the edges of the pool. The pool is 1.8 m deep so the animals can get far away if they choose.

[s.73]

Sent from my iPhone

On 4 Jun 2018, at 9:21 am, SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au> wrote:

Hi [s.73]

Thank you for providing this information.

As long as the animals have the ability to move away from the public if they want.

If you could please keep us updated how the progress goes that would be great.

Thanks

<image002.png> Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M [s.73 Ir] F 07 3087 8328
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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: [s.73 Irrelev] [mailto:[s.73 Irrelev]@vrtp.com.au]

Sent: Monday, 4 June 2018 9:13 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Cc: [s.73 Irrelevant in]@vrtp.com.au>; [s.73 Irrelevant in]@vrtp.com.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Re: Ray reef exhibit at Sea World

Hi Kate

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Kind regards

[s.73 Irrel]

Sent from my iPhone

> On 1 Jun 2018, at 8:54 am, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

>

> Thank you [s.73]

>

> When the exhibit is opened will public interaction occur?

>

> Regards

>

> Kate

>

>

> -----Original Message-----

> From: [s.73 Irrelevant in]@vrtp.com.au>

> Sent: Thursday, 31 May 2018 12:44 PM

> To: SERAFIN Kate

> Cc: [s.73 Irrelevant in]

> Subject: Ray reef exhibit at Sea World

>

> Hi Kate

>

> We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

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>

> Thanks

>

> [s.73]

>

> Acting Head of Marine Sciences

> Sea World

>

>

> Sent from my iPhone

> ---

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Published on DAF Disclosure Log
RTI Act 2009

Date : 5/06/2018 9:29:30 AM
From : "SERAFIN Kate"
To : "RODGER Ian"
Subject : FW: Ray reef exhibit at Sea World
Attachment : image002.png;
Ian, this advice was provided by Rosie without my knowledge.

The advice should have been to be to hold off on interaction or people coming into contact with the water for a few weeks as we decided last week and as Allison Crook requested originally.

I cannot really tell them to cease all interaction now that they have been told they can.

I will contact Seaworld today and make sure that they have hand washing facilities and a sign advising that people touching the water must wash their hands.

Kate

From: [s.73 Irrelevant inform@vrtp.com.au]
Sent: Monday, 4 June 2018 9:32 AM
To: SAVOCA Rosie
Cc: SERAFIN Kate [s.73 Irrelevant info@vrtp.com.au]
Subject: Re: Ray reef exhibit at Sea World

Thanks Kate

Yes they have the ability and room to move away from the edges of the pool. The pool is 1.8 m deep so the animals can get far away if they choose.

[s.73 Irrelevant inform@vrtp.com.au]

Sent from my iPhone

On 4 Jun 2018, at 9:21 am, SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au> wrote:

Hi [s.73 Irrelevant inform@vrtp.com.au]

Thank you for providing this information.

As long as the animals have the ability to move away from the public if they want.

If you could please keep us updated how the progress goes that would be great.

Thanks

<image002.png> Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M [s.73 Irrelevant inform@vrtp.com.au] F 07 3087 8328

E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au

41 George Street, Brisbane Qld 4000

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: [s.73 Irrelevant inform@vrtp.com.au] (mailto:[s.73 Irrelevant inform@vrtp.com.au])

Sent: Monday, 4 June 2018 9:13 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Cc: [s.73 Irrelevant inform@vrtp.com.au]; [s.73 Irrelevant inform@vrtp.com.au]; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Re: Ray reef exhibit at Sea World

Hi Kate

We are planning to open Ray Reef tomorrow without the public feeding sessions. The public will still be able to touch the animals but the staff will be the only ones feeding the animals so we can monitor food intakes and food drive.

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We will return to public feeds once we are happy with the rays behaviour and progress.

Kind regards

[s.73 Irrelevant inform@vrtp.com.au]

Sent from my iPhone

> On 1 Jun 2018, at 8:54 am, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

>

> Thank you [s.73 Irrelevant inform@vrtp.com.au]

>

> When the exhibit is opened will public interaction occur?

>

> Regards

>

> Kate

>

>

> -----Original Message-----

> From: [s.73 Irrelevant inform@vrtp.com.au]

> Sent: Thursday, 31 May 2018 12:44 PM

> To: SERAFIN Kate

> Cc: [s.73 Irrelevant info@vrtp.com.au]

> Subject: Ray reef exhibit at Sea World

>

> Hi Kate

>

> We are starting to consider an opening date for our Ray Reef exhibit which has been closed to the public since the 12th March due to the Steptococcus outbreak in our stingrays.

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> Thanks

>

> [s.73 Irrelevant inform@vrtp.com.au]

>

> Acting Head of Marine Sciences

> Sea World

>

>

> Sent from my iPhone

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Published on DAF Disclosure Log
RTI Act 2009

Date : 5/06/2018 4:43:47 PM
From : "SERAFIN Kate"
To : "SAVOCA Rosie" , "RODGER Ian"
Subject : Sea world ray exhibit

FYI

Just spoke to [s.73 Ir] regarding a sea jelly exhibit.

We also discussed the ray exhibit & [s.73 Irre] has advised they have not had a death going on six days. They have agreed to have a staff member stay at the exhibit during interaction to monitor behaviour and ensure the Rays are displaying normal behaviours. Have advised to notify if there are any further illness/deaths and [s.73 Irre] has agreed to also cease interaction if there are any negative behavioural changes or of course illness and communicate with us regarding the period of time for cessation.

If communication occurs in my absence and it really cannot wait until Tuesday please take the above and all other aspects - animal welfare, increased immune deficiency & what may result as a potential further disease exposure due to bacteria on people's hands/water etc. etc. and discuss with each other our vets before providing advice. Note that [s.73 Irre] thought that we were only concerned about the animals being able to swim away but much more should be taken into consideration particularly given the rays have only just been vaccinated.

Kate Serafin

Senior Policy Officer, Exhibited Animals Unit, Biosecurity Queensland Corporate

DAF

T: 07 3087 8024 **M:** [s.73 Irrelevant i]

F: 07 3087 8328 **W:** www.daf.qld.gov.au

E: kate.serafin@daf.qld.gov.au

E: exhibitedanimalenquiry@daf.qld.gov.au

Sent from my iPhone

Date : 11/06/2018 9:16:30 AM

From : [s.73 Irrelevant]

To : "SERAFIN Kate" , "Exhibited Animals Enquiry" , "SAVOCA Rosie"

Subject : Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

[s.73 Irrelevant]

Acting Head of marine sciences
Sea World

Sent from my iPhone

—
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—

Date : 11/06/2018 12:13:44 PM
From : "SAVOCA Rosie"
To : "SERAFIN Kate" , "RODGER Ian"
Cc : "Exhibited Animals Enquiry"
Subject : RE: Ray reef exhibit at sea world
Attachment : image001.png;image003.png;
Hi Kate and Ian

Spoke to [s.73 Ir] this morning regarding below email.
The estuary ray that died yesterday had been vaccinated, and an autopsy will be undertaken today.
I advised [s.73 Ir] (after speaking to Ian) to stop all public interactions and to close exhibit to the public.
[s.73 Ir] was fine with this but did question why the exhibit had to be closed to the public as the disease is not transmittable to humans (as advised by vet [s.73 Ir] and research papers).
I advised [s.73 Ir] that if she could close it for today and Kate will give her a call tomorrow morning to advise further.
[s.73 Ir] asked if Kate could please call her before 9.30am as that is time they open to the public.
[s.73 Ir] did also advise that vet [s.73 Ir] thought it would be good to speak to a BQ vet regarding the matter. I advised her that this could be a possibility if they wanted and to raise it with Kate tomorrow.
Ill email [s.73 Ir] back to have it in writing to stop interactions and close exhibit today.

Thanks



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M [s.73 Ir] F 07 3087 8328
E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
Exhibited Animal Applications: exhibitedanimalapplications@daf.qld.gov.au

Exhibited Animal Enquires: exhibitedanimalenquiry@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: [s.73 Irrelevant] [mailto:[s.73 Irrelevant]@vrtp.com.au]
Sent: Monday, 11 June 2018 9:17 AM
To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

[s.73 Irrelevant info]

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 11/06/2018 12:24:03 PM
From : "Exhibited Animals Enquiry"
To : [s.73 Irrelevant inform]
Cc : "SERAFIN Kate" , "Exhibited Animals Enquiry" , "RODGER Ian"
Subject : RE: Ray reef exhibit at sea world
Attachment : image001.png;image003.png;
H[s.73 Irre]

Thank you again for emailing and calling regarding the estuary rays and a further mortality at the Ray Reef exhibit at Sea World.

As advised, can you please cease the public interaction and close the exhibit to the public for today.

Kate Serafin will contact you tomorrow to discuss further.

Thank you
Rosie Savoca



Regards

Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000

GPO Box 46, Brisbane Qld 4001

Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au

Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au

Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: [s.73 Irrelevant] [mailto:[s.73 Irrelevant]@vrtip.com.au]

Sent: Monday, 11 June 2018 9:17 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Ray reef exhibit at sea world

Hi all

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We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

[s.73 Irrelevant]

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 11/06/2018 12:28:06 PM

From : s.73 Irrelevant info

To : "Exhibited Animals Enquiry"

Cc : "SERAFIN Kate", "RODGER Ian"

Subject : Re: Ray reef exhibit at sea world

Attachment : image003.png;

Hi Rosie

The Exhibit has been closed for the remainder of the day.

Cheers

s.73 Irrelevant

Sent from my iPhone

On 11 Jun 2018, at 12:24 pm, Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au> wrote:

Hi s.73 Irrelevant

Thank you again for emailing and calling regarding the estuary rays and a further mortality at the Ray Reef exhibit at Sea World.

As advised, can you please cease the public interaction and close the exhibit to the public for today.

Kate Serafin will contact you tomorrow to discuss further.

Thank you
Rosie Savoca

<image003.png>Regards

Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: s.73 Irrelevant info [mailto:s.73 Irrelevant info@vrtp.com.au]

Sent: Monday, 11 June 2018 9:17 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

s.73 Irrelevant info

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 12/06/2018 8:23:29 AM
From : "SERAFIN Kate"
To : "s.73 Irrelevant inf"
Cc : "SAVOCA Rosie" , "RODGER Ian"
Subject : Ray Exhibit
Attachment : image001.png;image002.png;
H[s.73 Irrel]

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards
Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant] kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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GPO Box 46, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

Date : 12/06/2018 9:51:35 AM

From : [s.73 Irrelevant info]

To : "SERAFIN Kate"

Cc : "SAVOCA Rosie", "RODGER Ian", [s.73 Irrelevant info]

Subject : RE: Ray Exhibit

Attachment : image001.png;image003.png;

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

[s.73 Irrelevant info]

From: SERAFIN Kate [mailto:Kate.Serafin@daf.qld.gov.au]

Sent: Tuesday, 12 June 2018 8:24 AM

To: [s.73 Irrelevant info]

Cc: SAVOCA Rosie; RODGER Ian

Subject: Ray Exhibit

Hi [s.73 Irrelevant info]

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant info] E kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au

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Date : 12/06/2018 3:30:48 PM

From : "RODGER Ian"

To : "LAMBOURNE Rowan"

Cc : "SERAFIN Kate"

Subject : FW: Ray Exhibit

Attachment : Re: Ray reef exhibit at sea world ;RE: Ray reef exhibit at sea world ;RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit;image001.png;image002.png;

Hi Rowan

Seaworld have had a number of ray species deaths over a number of weeks/months at an interactive tank.

Seaworld went through a tank decon and quarantine / vaccination process of the remaining rays.

Against our recommendation they resumed interaction earlier than we thought appropriate and this week they advised of a further death.

Whilst we technically cannot prevent them opening the interactive tank facility, we have made a recommendation that they do not open the tank to the public for welfare reasons (there are no zoonotic risks according to literature) until they are able to determine that the vaccination has been successful.

This is to advise of our approach to this and continued communication with Seaworld.

Regards

Ian

Ian Rodger

Manager, Animal Welfare Policy

Animal Biosecurity & Welfare

Biosecurity Queensland

s.73 Irrelevant

From: s.73 Irrelevant [mailto:s.73 Irrelevant@vrtp.com.au]

Sent: Tuesday, 12 June 2018 9:52 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>

Cc: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>; s.73 Irrelevant information [mailto:s.73 Irrelevant@vrtp.com.au]

Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

s.73 Irrelevant

From: SERAFIN Kate [mailto:Kate.Serafin@daf.qld.gov.au]

Sent: Tuesday, 12 June 2018 8:24 AM

To: s.73 Irrelevant

Cc: SAVOCA Rosie; RODGER Ian

Subject: Ray Exhibit

Hi s.73 Irrelevant

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Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

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Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Date : 11/06/2018 12:28:06 PM
From : s.73 Irrelevant info
To : "Exhibited Animals Enquiry"
Cc : "SERAFIN Kate" , "RODGER Ian"
Subject : Re: Ray reef exhibit at sea world
Attachment : image003.png;

Hi Rosie

The Exhibit has been closed for the remainder of the day.

Cheers

s.73 Irrelevant info

Sent from my iPhone

On 11 Jun 2018, at 12:24 pm, Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au> wrote:

Hi s.73 Irrelevant info

Thank you again for emailing and calling regarding the estuary rays and a further mortality at the Ray Reef exhibit at Sea World.

As advised, can you please cease the public interaction and close the exhibit to the public for today.

Kate Serafin will contact you tomorrow to discuss further.

Thank you
Rosie Savoca

<image003.png>Regards

Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001
Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
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-----Original Message-----

From: s.73 Irrelevant info <s.73 Irrelevant info@vrtp.com.au>

Sent: Monday, 11 June 2018 9:17 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Ray reef exhibit at sea world

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Please advise if there is any action you wish for us to take?

Kind regards

s.73 Irrelevant info

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 11/06/2018 12:13:44 PM
From : "SAVOCA Rosie"
To : "SERAFIN Kate" , "RODGER Ian"
Cc : "Exhibited Animals Enquiry"
Subject : RE: Ray reef exhibit at sea world
Attachment : image001.png;image003.png;

Hi Kate and Ian

Spoke to [s.73 Irrelevant] this morning regarding below email.

The estuary ray that died yesterday had been vaccinated, and an autopsy will be undertaken today.

I advised [s.73 Irrelevant] (after speaking to Ian) to stop all public interactions and to close exhibit to the public.

[s.73 Irrelevant] was fine with this but did question why the exhibit had to be closed to the public as the disease is not transmittable to humans (as advised by vet [s.73 Irrelevant] and research papers).

I advised [s.73 Irrelevant] that if she could close it for today and Kate will give her a call tomorrow morning to advise further.

[s.73 Irrelevant] asked if Kate could please call her before 9.30am as that is time they open to the public.

[s.73 Irrelevant] did also advise that vet [s.73 Irrelevant] thought it would be good to speak to a BQ vet regarding the matter. I advised her that this could be a possibility if they wanted and to raise it with Kate tomorrow.

Ill email [s.73 Irrelevant] back to have it in writing to stop interactions and close exhibit today.

Thanks



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8028 M [s.73 Irrelevant] 07 3087 8328
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-----Original Message-----

From: [s.73 Irrelevant] [mailto:[s.73 Irrelevant]@vrtp.com.au]

Sent: Monday, 11 June 2018 9:17 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

[s.73 Irrelevant]

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 4/04/2018 1:00:53 PM
From : "SERAFIN Kate"
To : "BUNCE Ashley"
Cc : "RODGER Ian" , "SAVOCA Rosie"
Subject : RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit
Attachment : image002.png;image003.png;image004.jpg;

Thanks Allison

Excluding keepers, there has been no public contact with the rays.

Regards

Kate

From: BUNCE Ashley
Sent: Wednesday, 4 April 2018 12:55 PM
To: SERAFIN Kate
Cc: RODGER Ian; SAVOCA Rosie
Subject: FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

FYI and advice

From: CROOK Allison
Sent: Wednesday, 4 April 2018 12:54 PM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>
Subject: RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

Thanks for the update – can you confirm no public contact with the rays?

From: BUNCE Ashley
Sent: Wednesday, 4 April 2018 10:26 AM
To: CROOK Allison <Allison.Crook@daf.qld.gov.au>
Subject: FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

FYI

From: SERAFIN Kate
Sent: Wednesday, 4 April 2018 10:24 AM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>
Cc: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

[Seaworld Vet](#)
s.73 Irreleva

Good morning Ash/Ian

Just a quick update on the *S. agalactiae* ray outbreak at Seaworld after talking to s.73 Ir

- As per the email notification there has been an outbreak of *Streptococcus agalactiae* in the Seaworld Ray Reef exhibit with 26 mortalities over various ray spp. Predominantly Estuary rays however there were also other spp. held.
- Noting that there are very small distinctions between isolates during testing of wild caught populations I have asked s.73 Ir if molecular characterization had been carried out or is it an assumption that the isolates are the same lineage sequence as the last outbreak?
- s.73 Ir has advised that they are assuming at this point in time but have carried out testing and are waiting on results.
- I have asked him if a targeted vaccine will be created if the results confirm a different serotype to the last outbreak – the answer was yes and they shall continue annual vaccinations.
- When asked what the last vaccination program involved s.73 Ir advised it was a 2 x 4 week apart vaccination followed by annual vaccination if required (signs, symptoms).
- s.73 Ir confirmed that the tank does filter the same water through Shark Bay water however they have large filtration systems and are running UV over the filtration lines – s.73 Ir has advised that other species were not affected last time either (prevalent in the rays rather than sharks etc.)
- All ray spp. have been taken out of the tank and placed in quarantine pools. The tank has been stripped down and is currently being treated.
- I questioned s.73 Ir about ray transfers and he has advised that they have not had an intake (from the wild) since the last outbreak and have ceased breeding the rays to ensure population control.

- [s.73 Irrelevant] also confirmed that they are not releasing any individuals into the wild given they have taken steps to ensure breeding does not occur.
- [s.73 Irrelevant] advised that the park has contacted relevant people WH&S/Fisheries and even though the risk is low they are taking measures to ensure staff are protected.

I have asked [s.73 Irrelevant] to keep us in the loop and advise once tests are confirmed.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant] E kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: BUNCE Ashley
Sent: Tuesday, 3 April 2018 6:44 PM
To: SERAFIN Kate
Cc: SAVOCA Rosie
Subject: Re: Ray Reef

Thanks Kate.

I will give you a call tomorrow.

Should Sea World also notify WHSQ?

Cheers,
Ash

On 3 Apr 2018, at 4:48 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

FYI – I have not contacted them yet.

I will also ensure they have contacted fisheries.

From: [s.73 Irrelevant] ([mailto:[s.73 Irrelevant]@vrtp.com.au])
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: [s.73 Irrelevant]
Subject: Ray Reef

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian [s.73 Irrelevant] outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or [s.73 Irrelevant] or [s.73 Irrelevant] if you require additional information regarding this issue.

Kind regards,

[s.73 Irrelevant info]

[s.73 Irrelevant] Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 5588 2480 | F: +61 7 5588 2280 | M: [s.73 Irrelevant]
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



[More Info](#)

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<ISSUE PAPER RE RECENT DEATHS IN STINGRAYS AT SEA WORLD 2018.doc>

<Bowater_et_al-2017-Journal_of_Fish_Diseases.pdf>

Date : 19/06/2018 12:35:52 PM

From : "s.73 Irrelevant info"

To : "SERAFIN Kate"

Cc : "SAVOCA Rosie" , "RODGER Ian" s.73 Irrelevant info

Subject : Re: Ray Exhibit

Attachment : image002.png;

Hi Kate

There has been another mortality at Ray Reef. This was an estuary ray. We will be doing the post mortem this afternoon to determine cause of death. The last ray that died did not die from *Streptococcus*. There were unidentified parasite eggs/cysts on the gills causing inflammation.

We had removed today's animal from the exhibit this morning due to lethargy and were holding it in an off exhibit tank.

I will notify you of the cause of death once we know what it is.

Thanks

s.73 Irrelevant

Sent from my iPhone

On 12 Jun 2018, at 7:05 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Many thanks s.73 Irrelevant

Regards

Kate

From: s.73 Irrelevant <s.73 Irrelevant@vrt.com.au>

Sent: Tuesday, 12 June 2018 9:52 AM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant

Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

s.73 Irrelevant

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]

Sent: Tuesday, 12 June 2018 8:24 AM

To: s.73 Irrelevant

Cc: SAVOCA Rosie; RODGER Ian

Subject: Ray Exhibit

Hi s.73 Irrelevant

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards

Kate

<image002.png>Kate Serafin

Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant kate.serafin@daf.qld.gov.au](mailto:kate.serafin@daf.qld.gov.au) W www.daf.qld.gov.au
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Date : 20/06/2018 8:27:55 AM

From : "Exhibited Animals Enquiry"

To : "s.73 Irrelevant inf"

Cc : "SAVOCA Rosie" , "RODGER Ian" , "s.73 Irrelevant"

Subject : RE: Ray Exhibit

Many thanks s.73 Irrelevant

Regards

Kate

From: s.73 Irrelevant information <s.73 Irrelevant@vrtp.com.au>

Sent: Tuesday, 19 June 2018 1:07 PM

To: Exhibited Animals Enquiry

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant

Subject: Re: Ray Exhibit

Hi Kate

Yes we have contacted s.73 Irrelevant information from Uni of Qld Parasitology department and are waiting for a response.

We have also sent the tissue away for pathology and done a in-house squash mount however have not been able to identify them yet.

Hopefully s.73 Irrelevant can assist us with a positive ID.

Cheers

s.73 Irrelevant

Sent from my iPhone

On 19 Jun 2018, at 1:02 pm, Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au> wrote:

Good afternoon s.73 Irrelevant

Many thanks for notifying us of the recent death.

Will there be further investigation to identify what parasite eggs/cysts were identified on the last ray?

As suggested, please continue to keep us informed.

Regards

Kate

From: s.73 Irrelevant information <s.73 Irrelevant@vrtp.com.au>

Sent: Tuesday, 19 June 2018 12:36 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant

Subject: Re: Ray Exhibit

Hi Kate

There has been another mortality at Ray Reef. This was an estuary ray. We will be doing the post mortem this afternoon to determine cause of death. The last ray that died did not die from Steptococcus. There were unidentified parasite eggs/cysts on the gills causing inflammation.

We had removed today's animal from the exhibit this morning due to lethargy and were holding it in an off exhibit tank.

I will notify you of the cause of death once we know what it is.

Thanks

s.73 Irrelevant

Sent from my iPhone

On 12 Jun 2018, at 7:05 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Many thanks [s.73 Irrelevant]

Regards

Kate

From: [s.73 Irrelevant information] <[\[s.73 Irrelevant information\]@vrtp.com.au](mailto:[s.73 Irrelevant information]@vrtp.com.au)>
Sent: Tuesday, 12 June 2018 9:52 AM
To: SERAFIN Kate
Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irrelevant]
Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

[s.73 Irrelevant]

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Tuesday, 12 June 2018 8:24 AM
To: [s.73 Irrelevant]
Cc: SAVOCA Rosie; RODGER Ian
Subject: Ray Exhibit

Hi [s.73 Irrelevant]

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards
Kate

<image002.png> **Kate Serafin**

Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant] kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
Level 2, 41 George Street, Brisbane Qld 4000
GPO Box 46, Brisbane Qld 4001

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Date : 8/08/2018 11:25:05 AM

From : "SERAFIN Kate"

To : [s.73 Irrelevant informa]

Cc : "SAVOCA Rosie", "RODGER Ian", [s.73 Irrelevant inf]

Subject : RE: Ray Exhibit

Good morning [s.73 Irre]

Many thanks for the update.

This is really good news and my apologies for the delayed response.

Regards

Kate

From: [s.73 Irrelevant information]@vrtp.com.au>

Sent: Monday, 30 July 2018 2:21 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irrelevant inf]

Subject: RE: Ray Exhibit

Hi Kate

Just keeping you up to date on our Ray disease outbreak here at Sea World.

The last animal to die in the is exhibit was on the 19th June and all animals surviving have returned to normal behaviour and appetite over the past month. We are intending to resume the public feeding from this Saturday.

Any concerns please contact me..

Kind regards

[s.73 Irrelevant inf]

Acting Head of Marine Sciences | T: +61 7 5588 2480 | F: +61 7 5588 2280 | M: [s.73 Irrelevant]

Sea World | Sea World Drive, Main Beach, QLD 4217 | www.themeparks.com.au

From: [s.73 Irrelevant i]

Sent: Tuesday, 19 June 2018 12:36 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irreleva]

Subject: Re: Ray Exhibit

Hi Kate

There has been another mortality at Ray Reef. This was an estuary ray. We will be doing the post mortem this afternoon to determine cause of death. The last ray that died did not die from Steptococcus. There were unidentified parasite eggs/cysts on the gills causing inflammation.

We had removed today's animal from the exhibit this morning due to lethargy and were holding it in an off exhibit tank.

I will notify you of the cause of death once we know what it is.

Thanks

[s.73 Irre]

Sent from my iPhone

On 12 Jun 2018, at 7:05 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Many thanks [s.73 Irre]

Regards

Kate

From: [s.73 Irrelevant information] <[\[s.73 Irrelevant information\]@vrtp.com.au](mailto:[s.73 Irrelevant information]@vrtp.com.au)>

Sent: Tuesday, 12 June 2018 9:52 AM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irreleva]
Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

[s.73 Irreleva]

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Tuesday, 12 June 2018 8:24 AM
To: [s.73 Irrelevant]
Cc: SAVOCA Rosie; RODGER Ian
Subject: Ray Exhibit

Hi [s.73 Irreleva]

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.
Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards
Kate

<image002.png> **Kate Serafin**

Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irreleva] kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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Date : 6/04/2018 11:59:41 AM
From : "SERAFIN Kate"
To : "RODGER Ian" , "SAVOCA Rosie"
Subject : Fwd: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit
Attachment : image003.png;image005.jpg;

Kate Serafin

Senior Policy Officer, Exhibited Animals Unit, Biosecurity Queensland Corporate

DAF

T: [07 3087 8024](tel:0730878024) M: s.73 Irrelevant

F: [07 3087 8328](tel:0730878328) W: www.daf.qld.gov.au

E: kate.serafin@daf.qld.gov.au

E: exhibitedanimalenquiry@daf.qld.gov.au

Sent from my iPhone

Begin forwarded message:

From: s.73 Irrelevant information <s.73 Irrelevant information@vrtp.com.au>
Date: 5 April 2018 at 4:45:37 pm AEST
To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>, s.73 Irrelevant information <s.73 Irrelevant information@vrtp.com.au>
Subject: RE: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Hi Kate,

Just to clarify a few points:

We have not notified fisheries as we were not aware of any necessity to do that.

The exhibit in which the rays were kept is a public contact exhibit where people feed the animals. This was closed to the public on 12th March 2018, as soon as we had diagnosed the problem.

s.73 Irrelevant information is at work next week Mon/Tues if you wanted to have a phone hook up either of those days to assess where we are at. Otherwise I will be around all week.

s.73 Irrelevant information

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Wednesday, 4 April 2018 1:09 PM
To: s.73 Irrelevant information
Subject: Seaworld outbreak of *Streptococcus agalactiae* in ray population - Ray Reef Exhibit

Good afternoon s.73 Irrelevant information

s.73 Irrelevant information thanks for attaching the paper and for advising us of the issue.

Thank for your time on the phone this morning s.73 Irrelevant information and for advising that you have contacted the relevant authorities WH&S/ Fisheries.

Unexplained or abnormally high mortality rate or morbidity of animals recorded on your Exhibition Licence is considered a serious incident under s80 of the *Exhibited Animals Act 2015*. Please ensure that in future and as per s81 of the Act, the park notifies Exhibited Animals as soon as it becomes aware of any of the listed issues under s80 of the Act. I have attached the Act for your reference.

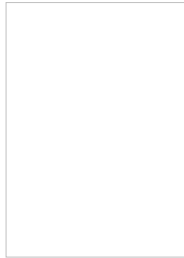
Excluding the attached information I have noted that;

- There have been no wild caught intakes into the exhibit for a number of years.
- In recent years population control measures have been implemented to ensure breeding does not occur ◆ no transfers out.
- There has been no public interaction with the various species of ray.
- A vaccine will be created as required once testing is confirmed.
- All rays have been placed in quarantine tanks and are being treated and will continue to be treated.
- The exhibit has been emptied and is undergoing treatment.
- The exhibit water is filtered through other exhibits however no other spp. in separate exhibits are showing signs/symptoms of *Streptococcus agalactiae*.

As discussed could you please provide a general update mid next week regarding testing, mortality etc.

Many thanks

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

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Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: [s.73 Irrelevant] [mailto:[s.73 Irrelevant]@vrtp.com.au]
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: [s.73 Irrelevant]
Subject: Ray Reef

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian [s.73 Irrelevant] outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or [s.73 Irrelevant] on [s.73 Irrelevant] if you require additional information regarding this issue.

Kind regards,

[s.73 Irrelevant info]

Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 [s.73 Irrelevant] F: +61 7 5588 2280 | M: [s.73 Irrelevant info]
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au

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Date : 8/08/2018 11:25:05 AM

From : "SERAFIN Kate"

To : "s.73 Irrelevant info"

Cc : "SAVOCA Rosie", "RODGER Ian", "s.73 Irrelevant"

Subject : RE: Ray Exhibit

Good morning s.73 Irrelevant

Many thanks for the update.

This is really good news and my apologies for the delayed response.

Regards

Kate

From: s.73 Irrelevant information <s.73 Irrelevant info@vrtp.com.au>

Sent: Monday, 30 July 2018 2:21 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant

Subject: RE: Ray Exhibit

Hi Kate

Just keeping you up to date on our Ray disease outbreak here at Sea World.

The last animal to die in the exhibit was on the 19th June and all animals surviving have returned to normal behaviour and appetite over the past month. We are intending to resume the public feeding from this Saturday.

Any concerns please contact me..

Kind regards

s.73 Irrelevant info

Acting Head of Marine Sciences | T: +61 7 5588 2480 | F: +61 7 5588 2280 | M: s.73 Irrelevant

Sea World | Sea World Drive, Main Beach, QLD 4217 | www.themeparks.com.au

From: s.73 Irrelevant info

Sent: Tuesday, 19 June 2018 12:36 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant

Subject: Re: Ray Exhibit

Hi Kate

There has been another mortality at Ray Reef. This was an estuary ray. We will be doing the post mortem this afternoon to determine cause of death. The last ray that died did not die from Steptococcus. There were unidentified parasite eggs/cysts on the gills causing inflammation.

We had removed today's animal from the exhibit this morning due to lethargy and were holding it in an off exhibit tank.

I will notify you of the cause of death once we know what it is.

Thanks

s.73 Irrelevant

Sent from my iPhone

On 12 Jun 2018, at 7:05 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Many thanks s.73 Irrelevant

Regards

Kate

From: s.73 Irrelevant information <s.73 Irrelevant info@vrtp.com.au>

Sent: Tuesday, 12 June 2018 9:52 AM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; s.73 Irrelevant
Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

s.73 Irrelevant

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Tuesday, 12 June 2018 8:24 AM
To: s.73 Irrelevant
Cc: SAVOCA Rosie; RODGER Ian
Subject: Ray Exhibit

Hi s.73 Irrelevant

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards
Kate

<image002.png> Kate Serafin

Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M s.73 Irrelevant kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au

Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

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Date : 4/04/2018 7:41:09 AM
From : "SAVOCA Rosie"
To : "SERAFIN Kate", "BUNCE Ashley"
Subject : RE: Ray Reef
Attachment : image002.png;image003.png;image004.jpg;

Thanks Kate

That is a lot of deaths in one month!

Wonder how it got into the enclosure.....if they have introduced wild caught animals recently?

The report from 2009/10 states the rays were wild caught and that was likely cause of how disease was introduced to enclosure back then.

Let me know if you want me to do anything.



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

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E rosie.savoca@daf.qld.gov.au W www.daf.qld.gov.au
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Exhibited Animal Enquires: exhibitedanimalenquiry@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: SERAFIN Kate
Sent: Tuesday, 3 April 2018 4:49 PM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>
Cc: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: FW: Ray Reef

FYI – I have not contacted them yet.

I will also ensure they have contacted fisheries.

From: s.73 Irrelevant mailto:s.73 Irrelevant@vrtp.com.au
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant
Subject: Ray Reef

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian s.73 Irrelevant outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or s.73 Irrelevant on s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant in

s.73 Irrelevant | Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 s.73 Irrelevant F: +61 7 5588 2280 | M: s.73 Irrelevant
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



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Date : 11/06/2018 5:37:54 PM

From : "SERAFIN Kate"

To : "SAVOCA Rosie"

Cc : "RODGER Ian"

Subject : RE: Ray reef exhibit at sea world

Attachment : image001.png;image002.png;

Thank you for ensuring they ceased activity Rosie – this was why I had so much concern.

See you tomorrow☺

Kate

From: Exhibited Animals Enquiry

Sent: Monday, 11 June 2018 12:24 PM

To: [s.73 Irrelevant ir]

Cc: SERAFIN Kate; Exhibited Animals Enquiry; RODGER Ian

Subject: RE: Ray reef exhibit at sea world

Hi [s.73 Irrele]

Thank you again for emailing and calling regarding the estuary rays and a further mortality at the Ray Reef exhibit at Sea World.

As advised, can you please cease the public interaction and close the exhibit to the public for today.

Kate Serafin will contact you tomorrow to discuss further.

Thank you
Rosie Savoca



Regards

Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 13 25 23 W www.daf.qld.gov.au
41 George Street, Brisbane Qld 4000

GPO Box 46, Brisbane Qld 4001

Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au

Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au

Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: [s.73 Irrelevant ir] [mailto:[s.73 Irrelevant ir]@vrtp.com.au]

Sent: Monday, 11 June 2018 9:17 AM

To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>

Subject: Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

[s.73 Irrelevant ir]

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 5/06/2018 4:45:08 PM
From : "RODGER Ian"
To : "SERAFIN Kate" , "SAVOCA Rosie"
Subject : RE: Sea world ray exhibit

Thanks Kate

Ian Rodger
Manager, Animal Welfare Policy
Animal Biosecurity & Welfare
Biosecurity Queensland

s.73 Irrelevant information

From: SERAFIN Kate
Sent: Tuesday, 5 June 2018 4:44 PM
To: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>
Subject: Sea world ray exhibit

FYI

Just spoke to s.73 Irrelevant information regarding a sea jelly exhibit.

We also discussed the ray exhibit & s.73 Irrelevant information has advised they have not had a death going on six days. They have agreed to have a staff member stay at the exhibit during interaction to monitor behaviour and ensure the Rays are displaying normal behaviours. Have advised to notify if there are any further illness/deaths and s.73 Irrelevant information has agreed to also cease interaction if there are any negative behavioural changes or of course illness and communicate with us regarding the period of time for cessation.

If communication occurs in my absence and it really cannot wait until Tuesday please take the above and all other aspects - animal welfare, increased immune deficiency & what may result as a potential further disease exposure due to bacteria on people's hands/water etc. etc. and discuss with each other our vets before providing advice. Note that s.73 Irrelevant information thought that we were only concerned about the animals being able to swim away but much more should be taken into consideration particularly given the rays have only just been vaccinated.

Kate Serafin
Senior Policy Officer, Exhibited Animals Unit, Biosecurity Queensland Corporate
DAF
T: 07 3087 8024 **M:** s.73 Irrelevant information
F: 07 3087 8328 **W:** www.daf.qld.gov.au
E: kate.serafin@daf.qld.gov.au
E: exhibitedanimalenquiry@daf.qld.gov.au

Sent from my iPhone

Date : 4/04/2018 1:00:53 PM
From : "SERAFIN Kate"
To : "BUNCE Ashley"
Cc : "RODGER Ian" , "SAVOCA Rosie"
Subject : RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit
Attachment : image002.png;image003.png;image004.jpg;
Thanks Allison

Excluding keepers, there has been no public contact with the rays.

Regards

Kate

From: BUNCE Ashley
Sent: Wednesday, 4 April 2018 12:55 PM
To: SERAFIN Kate
Cc: RODGER Ian; SAVOCA Rosie
Subject: FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

FYI and advice

From: CROOK Allison
Sent: Wednesday, 4 April 2018 12:54 PM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>
Subject: RE: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

Thanks for the update – can you confirm no public contact with the rays?

From: BUNCE Ashley
Sent: Wednesday, 4 April 2018 10:26 AM
To: CROOK Allison <Allison.Crook@daf.qld.gov.au>
Subject: FW: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

FYI

From: SERAFIN Kate
Sent: Wednesday, 4 April 2018 10:24 AM
To: BUNCE Ashley <Ashley.Bunce@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>
Cc: SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Seaworld Ray spp. outbreak - Streptococcus agalactiae Ray Reef Exhibit

Seaworld Vet
s.73 Irrelevant

Good morning Ash/Ian

Just a quick update on the *S. agalactiae* ray outbreak at Seaworld after talking to s.73 I

- As per the email notification there has been an outbreak of *Streptococcus agalactiae* in the Seaworld Ray Reef exhibit with 26 mortalities over various ray spp. Predominantly Estuary rays however there were also other spp. held.
- Noting that there are very small distinctions between isolates during testing of wild caught populations I have asked s.73 I if molecular characterization had been carried out or is it an assumption that the isolates are the same lineage sequence as the last outbreak?
- s.73 I as advised that they are assuming at this point in time but have carried out testing and are waiting on results.
- I have asked him if a targeted vaccine will be created if the results confirm a different serotype to the last outbreak – the answer was yes and they shall continue annual vaccinations.
- When asked what the last vaccination program involved s.73 I advised it was a 2 x 4 week apart vaccination followed by annual vaccination if required (signs, symptoms).
- s.73 I confirmed that the tank does filter the same water through Shark Bay water however they have large filtration systems and are running UV over the filtration lines – s.73 I has advised that other species were not affected last time either (prevalent in the rays rather than sharks etc.)
- All ray spp. have been taken out of the tank and placed in quarantine pools. The tank has been stripped down and is currently being treated.
- I questioned s.73 I about ray transfers and he has advised that they have not had an intake (from the wild) since the last outbreak and have ceased breeding the rays to ensure population control.

- s.73 Irrelevant also confirmed that they are not releasing any individuals into the wild given they have taken steps to ensure breeding does not occur.
- s.73 Irrelevant advised that the park has contacted relevant people WH&S/Fisheries and even though the risk is low they are taking measures to ensure staff are protected.

I have asked s.73 Irrelevant to keep us in the loop and advise once tests are confirmed.

Regards

Kate



Kate Serafin
Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M s.73 Irrelevant E kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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Exhibited Animals Enquiry: exhibitedanimalenquiry@daf.qld.gov.au
Exhibited Animals Applications: exhibitedanimalapplications@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

From: BUNCE Ashley
Sent: Tuesday, 3 April 2018 6:44 PM
To: SERAFIN Kate
Cc: SAVOCA Rosie
Subject: Re: Ray Reef

Thanks Kate.

I will give you a call tomorrow.

Should Sea World also notify WHSQ?

Cheers,
Ash

On 3 Apr 2018, at 4:48 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

FYI – I have not contacted them yet.

I will also ensure they have contacted fisheries.

From: s.73 Irrelevant in <mailto:s.73 Irrelevant in@vrtp.com.au>
Sent: Tuesday, 3 April 2018 3:14 PM
To: SERAFIN Kate
Cc: s.73 Irrelevant
Subject: Ray Reef

Hi Kate

I am writing to inform you of a disease outbreak we have encountered in our Ray Reef exhibit here at Sea World over recent weeks.

Please see attached issues paper by our veterinarian s.73 Irrelevant outlining the outbreak to date and our actions to try and halt the disease. I have also attached a copy of a paper published in 2017 following outbreaks of a similar nature in 2009 and 2010.

Please contact myself or s.73 Irrelevant on s.73 Irrelevant if you require additional information regarding this issue.

Kind regards,

s.73 Irrelevant in

Acting Head of Marine Sciences & Curator of Fishes | T: +61 7 5588 2480 | F: +61 7 5588 2280 | M: s.73 Irrelevant
Sea World | Sea World Drive, Main Beach QLD 4217 | seaworld.com.au



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<ISSUE PAPER RE RECENT DEATHS IN STINGRAYS AT SEA WORLD 2018.doc>

<Bowater_et_al-2017-Journal_of_Fish_Diseases.pdf>

Date : 11/06/2018 12:21:40 PM
From : "RODGER Ian"
To : "SAVOCA Rosie" , "SERAFIN Kate"
Cc : "Exhibited Animals Enquiry"
Subject : RE: Ray reef exhibit at sea world
Attachment : image001.png;image002.png
Thanks Rosie

Ian Rodger
Manager, Animal Welfare Policy
Animal Biosecurity & Welfare
Biosecurity Queensland

s.73 Irrelevant

From: SAVOCA Rosie
Sent: Monday, 11 June 2018 12:14 PM
To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; RODGER Ian <Ian.Rodger@daf.qld.gov.au>
Cc: Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>
Subject: RE: Ray reef exhibit at sea world

Hi Kate and Ian

Spoke to s.73 Irrelevant this morning regarding below email.
The estuary ray that died yesterday had been vaccinated, and an autopsy will be undertaken today.
I advised s.73 Irrelevant (after speaking to Ian) to stop all public interactions and to close exhibit to the public.
s.73 Irrelevant was fine with this but did question why the exhibit had to be closed to the public as the disease is not transmittable to humans (as advised by vet s.73 Irrelevant and research papers).
I advised s.73 Irrelevant that if she could close it for today and Kate will give her a call tomorrow morning to advise further.
s.73 Irrelevant asked if Kate could please call her before 9.30am as that is time they open to the public.
s.73 Irrelevant did also advise that vet s.73 Irrelevant thought it would be good to speak to a BQ vet regarding the matter. I advised her that this could be a possibility if they wanted and to raise it with Kate tomorrow.

Ill email s.73 Irrelevant back to have it in writing to stop interactions and close exhibit today.

Thanks



Rosie Savoca
Senior Policy Officer, Exhibited Animals, Animal Biosecurity and Welfare
Biosecurity Queensland
Department of Agriculture and Fisheries

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Exhibited Animal Enquiries: exhibitedanimalenquiry@daf.qld.gov.au
Website Link: <http://www.business.qld.gov.au/industry/agriculture/exhibiting-animals-queensland>

-----Original Message-----

From: s.73 Irrelevant [mailto:s.73 Irrelevant@vrtp.com.au]
Sent: Monday, 11 June 2018 9:17 AM
To: SERAFIN Kate <Kate.Serafin@daf.qld.gov.au>; Exhibited Animals Enquiry <ExhibAnimalEnq@daf.qld.gov.au>; SAVOCA Rosie <Rosie.Savoca@daf.qld.gov.au>
Subject: Ray reef exhibit at sea world

Hi all

Kate asked I call if we had any further mortalities at our Ray reef exhibit here at Sea World. I have tried calling her mobile but left a message as there was no answer.

We have had an estuary ray die yesterday afternoon. This is the first animal mortality since we reopened the exhibit to the public.

Please advise if there is any action you wish for us to take?

Kind regards

s.73 Irrelevant info

Acting Head of marine sciences
Sea World

Sent from my iPhone

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Date : 30/07/2018 2:21:02 PM

From : [s.73 Irrelevant info]

To : "SERAFIN Kate"

Cc : "SAVOCA Rosie" , "RODGER Ian" , [s.73 Irrelevant in]

Subject : RE: Ray Exhibit

Hi Kate

Just keeping you up to date on our Ray disease outbreak here at Sea World.

The last animal to die in the exhibit was on the 19th June and all animals surviving have returned to normal behaviour and appetite over the past month. We are intending to resume the public feeding from this Saturday.

Any concerns please contact me..

Kind regards

[s.73 Irrelevant i]

[s.73 Irrelevant i] | Acting Head of Marine Sciences | T: +61 7 5588 2480 | F: +61 7 5588 2280 | M: [s.73 Irrelevant]
Sea World | Sea World Drive, Main Beach, QLD 4217 | www.themeparks.com.au

From: [s.73 Irrelevant]

Sent: Tuesday, 19 June 2018 12:36 PM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irrelevant]

Subject: Re: Ray Exhibit

Hi Kate

There has been another mortality at Ray Reef. This was an estuary ray. We will be doing the post mortem this afternoon to determine cause of death. The last ray that died did not die from *Streptococcus*. There were unidentified parasite eggs/cysts on the gills causing inflammation.

We had removed today's animal from the exhibit this morning due to lethargy and were holding it in an off exhibit tank.

I will notify you of the cause of death once we know what it is.

Thanks

[s.73 Irrelevant]

Sent from my iPhone

On 12 Jun 2018, at 7:05 pm, SERAFIN Kate <Kate.Serafin@daf.qld.gov.au> wrote:

Many thanks [s.73 Irrelevant]

Regards

Kate

From: [s.73 Irrelevant information] <[\[s.73 Irrelevant information\]@vrtp.com.au](mailto:[s.73 Irrelevant information]@vrtp.com.au)>

Sent: Tuesday, 12 June 2018 9:52 AM

To: SERAFIN Kate

Cc: SAVOCA Rosie; RODGER Ian; [s.73 Irrelevant]

Subject: RE: Ray Exhibit

Hi Kate,

Animal welfare is also our first priority and following discussions with our vet and curator, we are going to operate the exhibit with an Animal Care Team Member and a Guest Services Team Member present to control guest interactions with the Rays. Please rest assured, should we identify any animal behavioural concerns, we will close the exhibit.

I can also confirm we are not offering public feeding and will advise your office of our plans prior to recommencing.

Thanks and please give me a call if you have any questions.

Regards

[s.73 Irrelevant]

From: SERAFIN Kate [<mailto:Kate.Serafin@daf.qld.gov.au>]
Sent: Tuesday, 12 June 2018 8:24 AM
To: [s.73 Irrelevant]
Cc: SAVOCA Rosie; RODGER Ian
Subject: Ray Exhibit

Hi [s.73 Irrelevant]

As discussed this morning our recommendation for ceasing public interaction activities within the ray exhibit was based on animal welfare concerns.

Thank you for ensuring that at this point in time there is no public feeding opportunities. We do recommend that this continues.

Please keep us updated with regards to any further deaths.

Regards
Kate

<image002.png>Kate Serafin

Senior Policy Officer, Exhibited Animals
Biosecurity Queensland
Department of Agriculture and Fisheries

T 07 3087 8024 M [s.73 Irrelevant] E kate.serafin@daf.qld.gov.au W www.daf.qld.gov.au
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