

**Institute of Veterinary, Animal and Biomedical Sciences
Massey University**

PATHOLOGY REPORT

Status: Final

Date:

Type: Mortality

Submitter	Submission Details
	Lab. Case/Spec ID: 49053 Submitter's Ref: Date Submitted: Date Received: 06/12/2012 Previous Case ID: WMD Case/Spec ID: 6703/1
Animal Details	Epidemiology
Animal ID: Animal Name: W12-16Ch Species: <i>Cephalorhynchus hectori hectori</i> Common Name: Hector's Dolphin Sex Class: Female Age Class: Subadult Date Died:	Number Dead: Number at Risk: Number Sick: Number Submitted: 1

Growth and Development

Parameter	Result Description	Value	Date Measured	Age Group
Depth of Tail Notch		.038 m	07/12/2012	Subadult
Dorsal Blubber Depth		15 mm	07/12/2012	Subadult
Eye to Blowhole Length		.142 m	07/12/2012	Subadult
Eye to Corner of Mouth Length		.035 m	07/12/2012	Subadult
Girth at Anus		.71 m	07/12/2012	Subadult
Girth at Eye		.58 m	07/12/2012	Subadult
Girth at Flippers		.84 m	07/12/2012	Subadult
Girth at Navel		.914 m	07/12/2012	Subadult
Height of Dorsal Fin		.1 m	07/12/2012	Subadult
Lateral Blubber Depth		16 mm	07/12/2012	Subadult
Length of Base of Dorsal Fin		.2 m	07/12/2012	Subadult
Length of Flipper		.196 m	07/12/2012	Subadult
Length of Flukes		.115 m	07/12/2012	Subadult
Snout to Anus Length		1.34 m	07/12/2012	Subadult
Snout to Corner of Mouth Length		.175 m	07/12/2012	Subadult
Snout to Genital Slit Length		1 m	07/12/2012	Subadult
Snout to Origin of Dorsal Fin Length		.715 m	07/12/2012	Subadult
Snout to Origin of Flipper Length		.245 m	07/12/2012	Subadult

Total Length	1.42 m	07/12/2012	Subadult
Ventral Blubber Depth	18 mm	07/12/2012	Subadult
Width of Flipper	.084 m	07/12/2012	Subadult
Width of Flukes	.42 m	07/12/2012	Subadult
Weight	49 kg	07/12/2012	Subadult

DIAGNOSIS

Bycatch

COMMENTS

The circumstances of death in combination with the presence of net marks and the absence of any other cause of death is convincing evidence of death due to entanglement in a fishing net (bycatch). Tissues will be processed for histology as part of routine procedure, and an amended report will be sent out if there are any additional significant findings.

ANIMAL HISTORY

No history given.

GROSS PATHOLOGY

This young female dolphin was in a good state of post mortem preservation, with only minor skin slippage. Her body condition was good. There were encircling linear impressions (net marks) over her melon on both sides, and short linear lacerations on the leading edge of the right flipper, dorsal fin and fluke. A 'Y'-shaped net impression was present on the right mandible. There were also full thickness lacerations through the trailing edge of the right flipper and left fluke, leaving skin flaps joined at the base of each wound.

There was no free fluid in the thoracic cavity. The lungs were well inflated. Low numbers of nematodes were found within terminal airways, and there were scattered small gritty foci (parasite granulomas) throughout the parenchyma. The airways contained minimal amounts of clear fluid, but no froth.

The stomach contained fish bones, a few nematodes and flukes, and a small amount of turbid fluid. The uterus was small and immature, and the ovaries smooth. There were no significant abnormalities of any abdominal organs.

Pathologist: