

# Oiled Marine Mammal

## Gross Necropsy Report

<b>Spill Name:</b> BP Deepwater Horizon	
<b>Animal Log #:</b> BP-2010-LA407	
<b>Level A Field #:</b> MCT-20100905-LA001	<b>Tag #:</b>
<b>Species:</b> Tursiops truncatus	
<b>Sex:</b> Female	<b>Age:</b> Sub-adult
<b>Weight:</b> NE kg (estimate/actual)	
<b>SON:</b> emaciated 1 2 3 4 5 6 7 obese 2	
<b>Measurements:</b> Blubber depth 7.0 mm	
<b>SL:</b> 212 cm	<b>AG:</b> CB cm
<b>UG:</b> C cm	<b>XG:</b> C cm

<b>Form completed by:</b> M. Piscitelli	<b>Date:</b> 8-Sept-10
<b>Enforcement Officer:</b>	
<b>Strand/Capture location:</b> Slidell, LA	
<b>Collectors Name:</b> Mandy Tumlin - LDWF	
<b>Intake date:</b> 5-Sept-10	<b>Euthanasia:</b>
<b>Death date:</b>	<b>Time:</b>
<b>Post mortem date:</b> 8-Sept-10	<b>Time:</b> 14:59
<b>Carcass Classification:</b> Frozen <input type="radio"/> yes <input checked="" type="radio"/> no	
2- fresh, 3-fair (organs intact), 4-poor, 5- mummified 3+	
<b>Photographs:</b> <input checked="" type="checkbox"/>	
<b>Radiographs:</b> <input type="checkbox"/>	

<b>Clinical signs/diagnosis:</b>	Found dead floating
<b>Antibiotics given:</b>	NA
<b>Pertinent lab results:</b>	NA

### GROSS NECROPSY ABNORMALITIES:

**EXTERNAL EXAM:**  
On 9/4/2010, carcass was floating, R side recumbent, near Ripotele Pass. Carcass was fresh dead with no scavenger damage evident. At time of seizure on 9/5/2010, carcass was beginning to bloat and had very little scavenger damage to jaw fats, eyes, and ventral belly. On 9/8/2010, when necropsy commenced carcass was very bloated (grth CBD) and greenish in color with epidermis peeling off in sheets. No obvious evidence of human interaction, although difficult to tell with advanced state of decomposition.

**INTERNAL EXAM:**  
L pleural cavity contained ~ 200-300mL of dark red fluid, while R pleural cavity contained ~ 50-60mL of dark red tinged fluid. Abdominal cavity contained ~ 100mL of red tinged fluid.

**BLUBBER:**  
Blubber was very tacky and well adhered to adjacent muscle. Thin thickness; blubber thickness at mid-thorax (mm) = 8.0 (dorsal), 7.0 (lateral), 7.0 (ventral). Throughout entire thoracic region blubber layers were stained pink-red throughout. depth (Histo).

**Axial Muscle:** Dry, tacky. Fiable, no lipid expressed upon cut. Dark brick-red throughout. NVL.

**Heart:** Pericardium opaque, red-tinged in color. Heart was flaccid with little IVS fat apparent. Apex of R ventricle was darkened red, appeared grape jelly-like, approximately 2x3cm in size (hemorrhage?). Upon cut, associated external lesion corresponded to clot in ventricular wall (collected entire area for Histo). L ventricle NVL. Ventricular wall thicknesses (mm) = 1.5cm (left), 0.7cm (right). R atrium had a focal area approximately 3x4cm of dark red jelly (hemorrhage?) - collected for Histo. Aorta NVL. Pulmonary artery NVL.

**Lungs:** Both R & L lungs were collapsed, pink-red on serosal surface, ventral margins un-inflated. Upon cut of L lung, parenchyma was pink throughout, no parasites. R lung was darker brick-red in color throughout and congested (R side recumbent on beach/water). R lung adhesion on mid-dorsal pleural wall extending caudally to diaphragm. Trachea NVL.

**Fore Stomach:** Full of 3-9 whole fish with black specs of material mixed in (collected in ziplock). Mucosa NVL, no ulcers, small amount of mucosal sloughing.

**Main Stomach:** Contained ~ 30mL of red tinged brown fluid - collected in vial. Moderate load of Brugia present. No ulcers present.

**Intestine:** Mesenteries engorged. Dorsal serosal surface of intestines appeared red-purple throughout in spray-paint-like fashion. L side retroperitoneal hemorrhage present. Upon cut, mucosa NVL, no parasites, no ulcers. Distal intestine contained moderate amount of dark brown-yellow, gritty, viscous fluid. Similar colon contents to that of distal intestine.

**Liver:** Serosal surface NVL, congested, heavy. Upon cut, parenchyma dark purple throughout, sticky to the touch. Autolyzed.

**Kidneys:** L & R kidneys were NVL, no evident inter-renal fat present. Upon cut, brick-red throughout, loss of cortico-medullary boundaries. Autolyzed.

**Lymph Nodes:**  
Caudal mediastinal LN was soft to the touch and dark brown throughout.  
Mesenteric LN, upon cut, was beige throughout, ~2x3cm in size, not reactive.  
Hepatic LN, upon cut, was beige pink medulla, dark purple cortex, reactive.

**REPRODUCTIVE TRACT:**  
Sub-adult female. Mid-length uterine horn dimensions (mm) = 10 (left), 7 (right). L & R ovaries had a faint orange along mid-length, too small to measure depth, otherwise NVL. No evidence of previous or current pregnancies.

**HEAD:**  
Mucosa NVL. Teeth NVL. R eye NVL, no evident ulcers. Tongue possessed medium to long length papillae, max = 0.5cm long. Palate had diffuse regions of rugose, hardened lesions.

**CONCLUSIONS:** Sub-adult, emaciated female. Moderate to advanced state of decomposition at time of necropsy. Effusion of both R & L pleural cavities. Both R & L lungs collapsed, with R lung also possessing an adhesion along dorsal pleural surface. Abdominal cavity contained ~ 100mL of red tinged fluid. Dorsal serosal surface of intestines appeared red-purple throughout in spray-paint-like fashion. L side retroperitoneal hemorrhage present. Blubber was thin and well-adhered to adjacent muscle, which was very tacky and friable. Heart was flaccid with little IVS fat apparent. Apex of R ventricle was darkened red, appeared grape jelly like. Upon cut, associated external lesion corresponded to clot in ventricular wall. R atrium had a focal area approximately 3x4cm of dark red jelly. Palate had diffuse regions of rugose, hardened lesions. Fore stomach was full of 3-9 whole fish with black specs of material mixed in. Main stomach possessed a moderate load of Brugia. Most significant findings include: the pleural effusions, abdominal cavity retroperitoneal hemorrhage and heart and lung lesions.

HYDROCARBON ANALYSIS SAMPLES			MICROBIOLOGY		SWABS: other	
bile <input type="checkbox"/>	kidney <input type="checkbox"/>	blubber/fat <input checked="" type="checkbox"/>	Lung <input type="checkbox"/>	<input type="checkbox"/> stomach contents frozen in ziplock x1, skin and tooth in DMSO <input type="checkbox"/> colon contents x1 vial, main stomach fluid x1 vial <input type="checkbox"/> three epitelial swabs, epidermis for HCA		
blood <input checked="" type="checkbox"/>	muscle <input checked="" type="checkbox"/>	other: <input checked="" type="checkbox"/>	Liver <input type="checkbox"/>			
urine <input type="checkbox"/>	lung <input checked="" type="checkbox"/>		other <input type="checkbox"/>			
liver <input checked="" type="checkbox"/>	intestine <input checked="" type="checkbox"/>					

HISTOLOGY SAMPLES						LYMPH NODES:	
lung <input checked="" type="checkbox"/>	thyroid <input type="checkbox"/>	ileum <input type="checkbox"/>	kidney <input checked="" type="checkbox"/>	mammary gland <input type="checkbox"/>	muscle <input checked="" type="checkbox"/>	colonic <input type="checkbox"/>	gastric <input type="checkbox"/>
trachea <input type="checkbox"/>	tonsil <input type="checkbox"/>	colon <input checked="" type="checkbox"/>	ureter <input type="checkbox"/>	adrenal <input checked="" type="checkbox"/>	gonad <input type="checkbox"/>	sublumbar <input type="checkbox"/>	hepatic <input checked="" type="checkbox"/>
heart <input checked="" type="checkbox"/>	tongue <input type="checkbox"/>	pancreas <input checked="" type="checkbox"/>	urinary bladder <input type="checkbox"/>	skin <input checked="" type="checkbox"/>	prostate <input type="checkbox"/>	inguinal <input type="checkbox"/>	mediastinal <input checked="" type="checkbox"/>
aorta <input checked="" type="checkbox"/>	esophagus <input type="checkbox"/>	spleen <input checked="" type="checkbox"/>	urethra <input type="checkbox"/>	eye (L/R) <input checked="" type="checkbox"/>	uterus <input type="checkbox"/>	axillary <input type="checkbox"/>	submandibular <input type="checkbox"/>
pulmonary artery <input checked="" type="checkbox"/>	stomach <input checked="" type="checkbox"/>	liver <input checked="" type="checkbox"/>	blubber <input checked="" type="checkbox"/>	fat-site: <input type="checkbox"/>	vagina <input type="checkbox"/>	mesenteric <input checked="" type="checkbox"/>	tracheobronchial <input type="checkbox"/>
thymus <input type="checkbox"/>	duodenum <input type="checkbox"/>	gall bladder <input type="checkbox"/>	bone marrow <input checked="" type="checkbox"/>	whole repro <input checked="" type="checkbox"/>	cervix <input type="checkbox"/>		
salivary gland <input type="checkbox"/>	jejunum <input checked="" type="checkbox"/>	brain <input type="checkbox"/>	spinal cord <input checked="" type="checkbox"/>		penis <input type="checkbox"/>		

other: L ventricle apex lesion, R atrium lesion diaph

<b>Cause of death (preliminary diagnosis):</b> CBD due to advanced state of decomposition. Awaiting pathology results. See Conclusions above.	
<b>Examiner:</b> C. Field & M. Piscitelli	<b>Examiner's signature:</b> <i>C. Field, DVM</i> <b>Date:</b> 9/8/10