

DOLPHIN GROSS NECROPSY LONG FORM

FIELD #: MRB-20110517-LA001/545 ^{11A}	NECROPSY DATE: 5/18/2011
OIL SPILL CODE:	STRAND DATE: 5/17/2011
AGE CLASS: sub-adult/adult	STRAND LOCATION: La Fourche
SEX: M	THAW DATE: \emptyset
PROSECTOR(S): Cara Field, Suzanne Smith	CARCASS CONDITION CODE: 2
	TIME: START: 1:30pm END: 7:00pm

Circle one: **E** = examined **NE** = not examined **NA** = not applicable

NOTE: If unable to assess, circle NE and write why (ex: decomposed/missing/scavenged/etc.)

Consider: (1) **lesion**

- (2) **location** within the body and symmetry,
- (3) **distribution** within the organ,
- (4) **relationship** to other organs/lesions,
- (5) **approximate percent of organ affected**/ severity,
- (6) **amount/size**
- (7) **degree of demarcation**,
- (8) **shape/structure**,
- (9) **texture/consistency**,
- (10) **homogeneity**,
- (11) **color & odor**

Measurements

TL 253.37cm
 Axillary Girth 140.34cm
 Anogenital Girth 122.45cm
 Blubber depth
 Dorsal 1.9cm
 Lateral 1.3cm
 Ventral 1.2cm

STRANDING OR SAMPLING HISTORY:
 Found fresh dead in Fourchon, LA; possibly following shrimp boats; concern that animal may have been caught in net.
 (by responder)

BODY CONDITION (EXTERIOR):
 Emaciated: Visible transverse processes of the spine, pronounced nuchal concavity ("peanut head"), scapulae visible
 Thin: Concave/sunken dorsal body muscles, moderate nuchal concavity ("peanut head")
 Average: No bony prominences or nuchal concavity observed
 Robust: Bulging dorsal body musculature

Abdomen appears distended though carcass fairly fresh.

SKIN / HUMAN INTERACTION: E / NE / NA

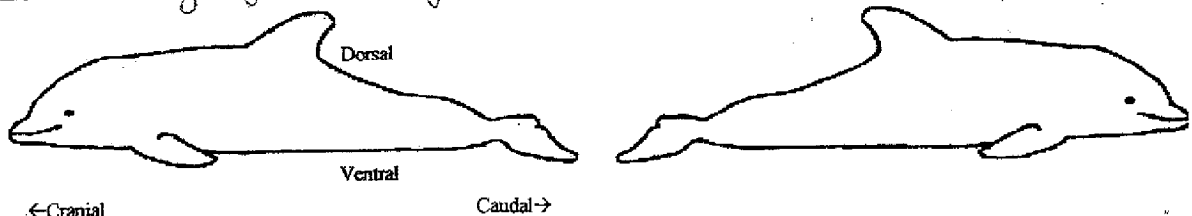
Life History (Circle if present): rostral hairs, rostral hair follicles, fetal folds (If present, count, draw & describe location below)

Describe the skin: texture (ex: leathery, rubbery), color grey dorsal/red/purple ventral

Look for: parasites, circular lesions, ulcers, rake marks, net marks, wounds, missing tissue/skin, bruising

If abnormalities present, describe: location, size (length, width, depth of penetration into body), missing tissue, number of parasites (ex: *Xenobalanus*, <10, 10-20, 20-50, >50)

Moderate # rake marks over dorsum, tail & pec flippers.
 Possible net marks over caudal dorsum, @ lateral peduncle & flukes.
 Bruising of ventrum from neck to umbilicus.



E

FIELD #: LA 545

PRESENT / ABSENT

DISCHARGES:

If present, note location: OCULAR, BLOW HOLE, ORAL, PENILE/VULVAR, ANAL, OTHER: _____
Describe (color, consistency): none seen

UMBILICUS: (Circle:) Stump Present/ Stump Absent (hole only)/ Recently Healed/ Scarred E / NE / NA

Life History (Circle): Umbilical stump: Patent (partly / completely), Closed, Moist / Dry; Length: _____
Falciform ligament (umbilical vein)/ Umb arteries: Patent (partly / completely), Closed, NE
Urachal ligament (urachus): Patent (partly / completely), Closed, NE

Notes: adult

BLUBBER: E / NE / NA

Describe (ex: color, texture)
Look for: Parasites (Bruising), Penetrating wound, Foreign body, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty), Scavenger damage
If abnormalities present, describe: location, size (length, width, and describe depth of penetration into body/missing tissue), approx. number of parasites (<10, 10-20, 20-50, >50)
Moderate red/purple discoloration of ventral + lateral blubber from rostral mandible to mid-thorax, w/ sm. # hemorrhage

SKELETAL MUSCLE: E / NE / NA

Describe (ex: color, texture)
Look for: gas bubbles, bruising / hemorrhage, mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty), parasites
If abnormalities present, describe: location, size (length, width, and describe depth of penetration into body/missing tissue)
Also describe lymph nodes (ex: axillary, prescapular, mandibular) and note if enlarged/swollen, hardened, watery, and describe color (in cross section)
Notes: NSF.

SKELETON AND JOINTS: E / NE / NA

Describe: Although skeletons are not usually completely flensed, look for abnormalities during dissection
Look for: Broken bones, bony deformities, bony growths, foreign bodies
Note: Describe any nearby tissue damage.
Notes: ① Scapulo-humeral joint NSF
Atlanto-occipital joint arthamatorous

EYES: Right: E / NE / NA Left: E / NE / NA

Look for: Missing, deflated, enlarged, out of socket, foreign body; penetrating wound
Notes: ① eye - aqueous humor appears hemorrhagic, but otherwise both NSF.

D# LA545

(E) / NE / NA

ORAL CAVITY:

TEETH: (CIRCLE ONE: Unerupted, Just erupting, Fully erupted)

Look for: Missing; Broken; Worn (some / all); Discharge

Notes: Missing single tooth (L) mid-mandible - likely collected upon stranding.
Describe inside the mouth: (ex: are there papillae on tongue?) Teeth generally clean w/ minimal wear.

Notes: 2 small fish inside mouth (poss. pinfish), and multiple fish bones in distal esophagus. Remains of papillae on tongue tip edges (Proximal)

THORACIC CAVITY:

(E) / NE / NA

Free fluid in thoracic cavity: Present / (Absent)

Describe if present (amount, color, consistency)

Look for: Penetrating wound, Foreign body, Mass, etc.

Also describe lymph nodes (ex: lung-associated, tracheobronchial, etc.)

Look for: enlarged/swollen, hardened, watery, and describe color (in cross section)

Notes: Lungs appear erythematous on surface, and are very large + heavy, but, on cut surface, parenchyma is mottled red/purple and severely edematous with serosanguinous fluid. TB lymph nodes normal sized but are mottled red/purple on cut surface.

ESOPHAGUS:

(E) / NE / NA

CONTENT (AMOUNT / DESCRIBE) (Ex: empty, fish/digesta, blood)

Describe esophagus tissue: (ex: color)

Look for: Discoloration, Foreign body, Ulcer, Mass, Dilated / Constricted, Obstruction, Parasites (<10, 10-20, 20-50, >50)

If abnormalities present, describe: location, size (length, width, depth), texture

Notes: See Multiple fish bones + small amount digesta in distal esophagus.

THYROID:

(E) / NE / NA

Describe color (pale tan, pale pink, red, purple), uniformity of color:

Notes: Dark red, uniform

THYMUS:

E / NE / (NA)

LIFE HISTORY: (Involved) Present

Notes:

TRACHEA / BRONCHI / LUNGS:

(E) / NE / NA

AIRWAY CONTENT (AMOUNT/LOCATION/DESCRIBE): (ex: foam, mucous, blood, pus, digesta)

DESCRIBE UNIFORMITY OF COLOR, TEXTURE OF LUNGS (EX: PINK, LIGHT AND SPONGY):

LOOK FOR: parasites, congestion with blood, nodules (ex: mass, abscess, parasite-filled), hardness, symmetry, fluid

If abnormalities present, describe: location, percentage of lung affected

Notes: Trachea: small # hemorrhagic fluid in trachea + both bronchi, extending into both lungs. Trachea mucosa severely erythematous, extending into both bronchi. Serosanguinous fluid pockets in (L) lung.
Lung parenchyma: Both lungs heavy and congested; on cut section parenchyma is mottled red-purple and severely edematous/congested.
Rt lung vasculature + small airways surrounded by hemorrhagic rings.
Lung capsule appears severely thickened bilaterally.

FIELD #: LA545

(E) NE / NA

HEART / PULMONARY ARTERIES / AORTA :

Congenital: (not applicable in adults)

Ductus arteriosus (connection between aorta and pulmonary artery): (Circle one: OPEN / CLOSED), NE

Foramen ovale (connection between right and left atria): (Circle one: OPEN / CLOSED), NE

Describe pericardial sac, note presence and amount/color/consistency of fluid between sac and heart muscle.

Describe heart chambers, vessels, valves (color, thickness, size) and note any fat surrounding heart muscle.

Look for: abrupt changes in vessel diameter (constriction/dilation), discoloration, thickened valves, masses

Notes: Pericardial sac NSF. Heart: mitral valve appears very dark red on color, but otherwise heart NSF.

(E) NE / NA

ABDOMINAL CAVITY:

Free fluid in abdominal cavity Present / Absent

Describe if present (amount, color, consistency)

green/yellow straw color - approx 300 mls fluid present.

Look for: Penetrating wound, Foreign body, Mass, etc.

Also describe lymph nodes (ex: mesenteric, colonic, inguinal, etc.)

Look for: enlarged/swollen, hardened, watery, and describe color (in cross section)

Notes: mesenteric, colonic + sub-lumbar LN wnl. Omentum - NSF

(E) NE / NA

LIVER:

Describe: (color, texture, sharp vs rounded edges)

Look for: Parasites, thick liver capsule, spotted appearance (externally or on cross section), Nutmeg coloration, congestion, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: color, location, size (length x width x depth)

Notes: Slightly congested w/ blood; otherwise NSF

(E) NE / NA

SPLEEN:

Describe: (shape, size, color)

Look for: Accessory spleens (splenules), congestion, discoloration / mottled

Notes: NSF

(E) NE / NA

PANCREAS:

Describe: (shape, size, color, texture)

Notes: NSF

(E) NE / NA

STOMACH:

IF COLLECTED WHOLE, SKIP SECTION.

Stomach contents (amount / describe): (Ex: empty, gas, fish, foreign body)

Look for: Parasites, ulcers, perforations, obstructions

If abnormalities, describe: which chamber and describe size, color, percentage of stomach affected

Notes: stomach tied off whole + saved whole. By palpation, numerous food/other items in forestomach. External forestomach to serosal surface mottled red.

ID#

LA 545

E / NE / NA

SMALL INTESTINE:

Content (amount / describe): (Ex: Empty, Digesta, Frank blood (red), Digested blood (black/tarry))

Look for: Parasites, Discoloration, Foreign body, Perforation, Mass, Hardening, etc.

If abnormalities present, describe: Size, location, etc.

Also describe lymph nodes (ex: mesenteric).

Notes: Small # normal appearing (tan) digesta.

LARGE INTESTINE:

E / NE / NA

Content (amount / describe): (Ex: Empty, pasty feces, tarry feces, meconium (neonatal green-brown feces))

Look for: parasites, discoloration, foreign body, perforation, mass, hardening

If abnormalities present, describe: Size, location, etc.

Notes: Normal # tan/green digesta / feces

ADRENAL GLAND: Right: E / NE / NA

Left: E / NE / NA

Ratio of cortex to medulla: Right Adrenal: 1:1 Left Adrenal: 1:1

Describe (color on cross-section, texture)

Look for: nodules/masses, different sizes (right vs left), hemorrhage

If abnormalities present, describe: Size, location, etc.

Notes: similar size though both appear mild-moderately enlarged.

URINARY BLADDER:

E / NE / NA

CONTENT (AMOUNT / DESCRIBE): (Ex: Clear, ~~Opaque~~, Yellow, Red, gritty)

Look for: ulcer, dilated / constricted, rupture, proliferation, thickened, mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty), stones

If abnormalities present, describe: location, size, etc.

Notes: Cloudy yellow urine present - collected -> 1-chems. Bladder NSF

KIDNEY:

Right: E / NE / NA

Left: E / NE / NA

Describe: (texture, color, color on cross section, etc.)

Look for: differences in size (compared to each other), dilation, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty), stones

If abnormalities present, describe: location, size, etc.

Notes: NSF slightly darker red than normal, otherwise NSF

MALE REPRODUCTIVE TRACT:

Life history: Evaluate size of testes (Circle one: Active (swollen), Immature) [measure if unsure]

Describe testes and penis (ex: uniformity in color and texture on cross section of testes)

Look for: Differences in size (compared to each other), mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty)

If abnormalities present, describe: organ, location, asymmetry, size, texture

Look for and describe lymph nodes (ex: inguinal)

Notes: (E) testicle slightly larger than (R); borderline mature (cut sxn) normal texture.
Penis = NSF

FEMALE REPRODUCTIVE TRACT (Ovaries, Uterus, Cervix, Vagina, Vulva)

E / NE / NA

PREGNANT? Y / N

*Complete Neonatal Characters Sheet for fetus if present; collect placenta.

Life history: Reproductively active females will have cyst-like structures on their ovaries—if present, count, describe color, contents, and size.

Describe all reproductive organs (ex: color, texture, size)

Look for: differences in ovarian and uterine size (compared to the other side), distention, enlargement, scarring, pregnancy, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: organ, location, asymmetry, size, texture.

Look for and describe lymph nodes (ex: inguinal)

MAMMARY GLANDS/ NIPPLES:

Look for and describe: Lactating, Non-lactating, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

Notes:

(E) NE / NA

INSIDE SKULL:

Describe inside of skull bones and associated membranes (color, thickness, presence of fluid, etc).

Note: Dura mater is the outer lining of the brain that lies next to the skull. Assess carefully for bruising, thickening, etc.

Notes: Dura appears mottled/bruised. Rest NSF
Meninges around brainstem + cranial spinal cord severely hemorrhagic

BRAIN:

Cerebrum: (E) NE / NA
Brain stem: (E) NE / NA

Cerebellum: (E) NE / NA

Describe (uniformity of color, texture):

Look for: Asymmetry, Bruising, Fluid, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: size, location, texture, number of lesions, etc.

Notes: Clot on dorsal cerebellum (1.5 x 1.5 cm). Brain vasculature appears generally congested.

(E) NE / NA

SPINAL CORD:

Spinal cord in code 3-4 animals is usually decomposed; assess at base of skull if necessary.

Describe: uniformity of color, texture and size, location, etc. of any abnormalities.

Notes: See above - inside skull (meninges)
Spinal cord = NSF otherwise