

**DOLPHIN GROSS NECROPSY LONG FORM**

FIELD #: LA-497	NECROPSY DATE: 3-31-2011
OIL SPILL CODE:	STRAND DATE: 3-30-11
AGE CLASS: sub adult	STRAND LOCATION:
SEX: male	THAW DATE: <input checked="" type="checkbox"/> (refrigerated overnight)
PROSECTOR(S): Cara Field, DVM PhD	CARCASS CONDITION CODE:
	TIME: START: 2142 END: 0011 (4-1-2011)

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

**STRANDING OR SAMPLING HISTORY:**

Caught in trawl net with 2 conspecifics.

**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

**SKIN / HUMAN INTERACTION:**

E / NE / NA

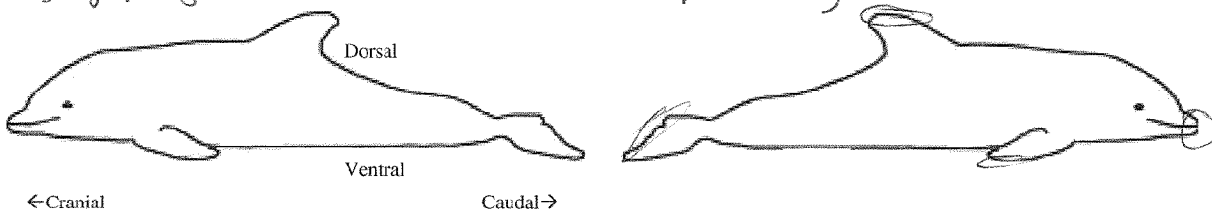
Life History (Circle if present): rostral hairs, rostral hair follicles, fetal folds (If present, count, draw & describe location below)

Describe the skin: texture (ex: leathery, rubbery), color

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)

Scars over body - circular w/ slightly irregular - 4x4 to 8x8 cm, similar to healed shark bite wounds. Multiple superficial abrasions over rostrum, dorsal fin (tip); fluke tips and leading edge of pec fins. No obvious net marks penetrating skin.



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**DISCHARGES:**

PRESENT / ABSENT

If present, note location: OCULAR, BLOW HOLE, ORAL, PENILE/ VULVAR, ANAL, OTHER: \_\_\_\_\_

Describe (color, consistency): φ

**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: \_\_\_\_\_

**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) multiple parasites at blubber/muscle

interface throughout length of body (from shoulder to peduncle)  
(cysts are 5x5mm to 1x1cm diameter)

**SKELETAL MUSCLE:**

(E) / NE / NA

Describe (ex: color, texture) normal texture/color

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: parasites w/in muscle layers - generally 5x5mm to 8x8mm diameter  
10-20 noted.

Lymph nodes WNL.

**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: normal - examined scapulo-humeral joint - NSF -  
Atlanto-occipital joint - NSF.

**EYES:**

Right: (E) / NE / NA

Left: (E) / NE / NA

Look for: Missing, deflated, enlarged, out of socket, foreign body; penetrating wound

Notes: NSF

FIELD #

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ORAL CAVITY:

(E) / NE / NA

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

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

Notes: missing 4 from each side top (maxilla); Rest conical, clean, even

Describe inside the mouth: (ex: are there papillae on tongue?)

Notes: mouth: NSF

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: Lymph nodes (TB, cardiac, pulmonary) = NSF

ESOPHAGUS:

(E) / NE / NA

CONTENT (AMOUNT / DESCRIBE) (Ex: empty, fish, digesta, blood) small amount of tan digesta

Describe esophagus tissue: (ex: color) normal

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: 1.2 x .7 cm nodule... pass parasite or lymph node at base of esophageal tissue above mass appeared ulcerated. upon dissection, seems to be similar to lymph node but directly (L side)

THYROID:

(E) / NE / NA

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

Notes: firm, NSF.

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: right lung congested w/ blood (severely): congealed frothy mass in trachea and both bronchi; lots of hemorrhaging in trachea (wall) - appears dark red/brown.

(L) lung also congested w/ blood + patchy purple-red pitting throughout parenchyma.

appears to be congealed blood and foam, in y-shape, extending from trachea into both bronchi.

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**HEART / PULMONARY ARTERIES / AORTA :**  E /  NE /  NA

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: normal

**ABDOMINAL CAVITY:**  E /  NE /  NA

Free fluid in abdominal cavity: Present /  Absent

Describe if present (amount, color, consistency) \_\_\_\_\_

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: LN = wal (mesenteric, colonic, gastric, pancreatic, sublumbar)  
Large # parasite cysts embedded in connective tissue surrounding  
gonads, bladder + distal colon. (1x1cm to 1.5x1.5cm)

**LIVER:**  E /  NE /  NA

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: 3 white/yellow granules on right lobe; portal vasculature is dilated  
moderately congested (granules are ~4x4mm diameter + 3<sup>rd</sup> deep)  
+ firm on cut sxn.

**SPLEEN:**  E /  NE /  NA

Describe: (shape, size, color) purple, globular, 5x6x3cm

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

Notes: prescap lymph node: black spots

**PANCREAS:**  E /  NE /  NA

Describe: (shape, size, color, texture)

Notes: purplish tinted but normal texture.

**STOMACH:**  E /  NE /  NA

**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: tied off and saved whole (frozen)

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**SMALL INTESTINE:**

(E) / NE / NA

**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:** mesenteric LN uncl. Moderate # greenish-brown digesta w/in small intestines

**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:** Small amt of watery brown fluid in duodenum

**ADRENAL GLAND:**

**Right:** (E) / NE / NA

**Left:** (E) / NE / NA

**Ratio of cortex to medulla:** Right Adrenal: 1:2 Left Adrenal: 1:2

**Describe (color on cross-section, texture)**

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

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

**Notes:** right larger, with dark area (dark red circular area mid-medulla)

**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:** empty, normal texture/appearance

**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:** normal; connective tissue (peri-renal) emphysematous (moderate)

FIELD #: LA-497

**MALE REPRODUCTIVE TRACT:** (E) / NE / NA

**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:** multiple parasites embedded throughout connective tissues surrounding testes & prostate gland. Not w/in tissues. Testes appear wnl

**FEMALE REPRODUCTIVE TRACT (Ovaries, Uterus, Cervix, Vagina, Vulva)** E / (E) / 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:**  
\_\_\_\_\_  
\_\_\_\_\_

**INSIDE SKULL:** (E) / NE / NA

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:** NSF  
\_\_\_\_\_  
\_\_\_\_\_

**BRAIN:** Cerebrum: (E) / NE / NA      Cerebellum: (E) / NE / NA  
Brain stem: (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:** NSF  
\_\_\_\_\_  
\_\_\_\_\_

**SPINAL CORD:** (E) / NE / NA

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:** only examined proximal 5 cm - appears NSF.  
\_\_\_\_\_  
\_\_\_\_\_