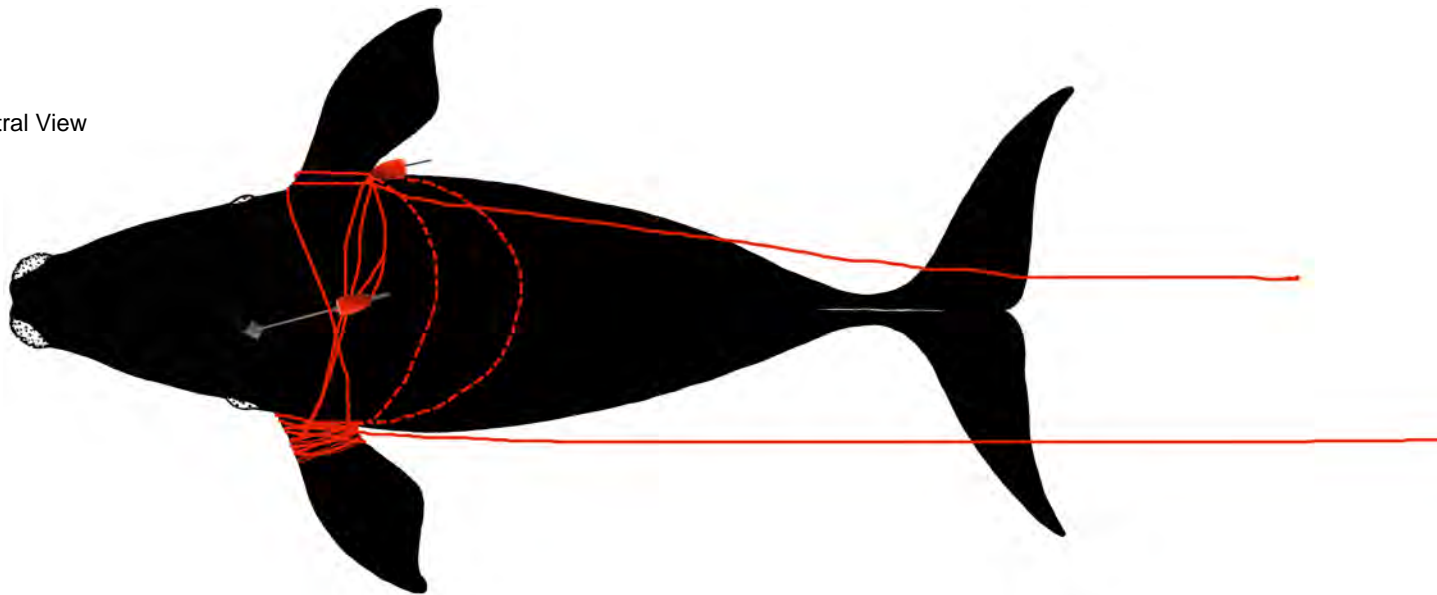


| | | | |
|----------------|--------------------|-----------------|-----------------|
| Species | Right Whale | Whale ID | Eg #3346 |
|----------------|--------------------|-----------------|-----------------|

| | | | |
|---|------|------------------------------|------|
| Date first observed entangled (date seen prior without gear) | | 17 Mar 2004 (30 Jan 2004) | |
| Sex | Male | Birth year | 2003 |
| | | Age at entanglement | 1 |

| | | | |
|------------------------|------------|-----------|---------|
| Case study ID | PCCS | NMFS | GEAR ID |
| | WR-2004-02 | E02-04 | J031704 |
| Gear sample collected? | Yes | Gear type | Lobster |

Ventral View



| | | | | | |
|---|-------|-----------------------------------|----------|------|--------|
| Reproductive prior to/after entanglement detection? | | | | | |
| Entanglement injury severity | | | Severe | | |
| Entanglement configuration risk | | | High | | |
| Wound severity | Mouth | Head/ Rostrum | Flippers | Body | Flukes |
| | None | None | High | Low | Medium |
| Duration of time carrying gear | | Minimum 2 569 days, maximum 2 615 | | | |
| Disentangled? | | Yes - partial, 19 Mar 2004 | | | |
| Status | | Alive - Last sighted in 2014 | | | |
| Number of prior entanglement interactions | | 1 | | | |

| | |
|-------------------------------|---|
| Entanglement configuration | Whale has extensive wraps of line at right flipper with lines extending along chest to less wraps at left flipper; two lines wrap over the bac anchored by flipper wraps; line trails to 15ft and 30ft behind flukes; buoy(s) and highflrier pinned to chest. |
| Anchoring point(s) | Flippers, body |
| Gear configuration confidence | High |
| Remaining questions | None |
| Comments | Body wraps resolved through disentanglement; as of 2014, wraps at right flipper persist. |

| | | |
|-------------------------|-------------|-------|
| Polymer type | Polypro/PET | |
| Gear component | Vertical | |
| Rope diameter (inches) | 3/8 (0.406) | |
| Breaking strength (lbs) | Tested | 1 597 |
| | New | 2 600 |

This case study was developed under NOAA Award # NA09NMF4520413 to the Consortium for Wildlife Bycatch Reduction, administered at the New England Aquarium, Boston, MA, USA (available at www.bycatch.org). See: Knowlton, A.R., J. Robbins, S. Landry, H.A. McKenna, S.D. Kraus, T. B. Werner. 2015. Effects of fishing rope strength on the severity of large whale entanglements. Conservation Biology DOI: 10.1111/cobi.12590



17 Mar 2004 WT



19 Mar 2004 WT



15 Feb 2008 FWRI

DATA SHEET

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO.

J031704

NMFS NO.

E02-04

Gear Description:

The gear consisted of a two types of sinking line but only one length was analyzed. One end of this line showed evidence of a tensile break.



Rope description:

$\frac{3}{8}$ inch 3-Strand PP/PET blend. Two rope yarns with mono filament polypropylene wrapped with multifilament polyester. The third strand has two rope yarns the same as above and one rope yarn all green polypropylene monofilament. The line has considerable surface abrasion that is uniform along its length.

| Tested (T) or adjusted (A) strength | Typical new strength | Rope condition |
|-------------------------------------|----------------------|----------------|
| 1,597 lbs (T) | 2,600 lbs | Poor |



J031704 $\frac{3}{8}$ 3-Strand PP/PET blend. Note uniform surface abrasion.