

## Balsam, Briana

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**Sent:** Monday, February 11, 2008 4:37 PM  
**To:** David\_Niebch@fpl.com; Ed\_Hollowell@fpl.com; Stacy\_Foster@fpl.com;  
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Bob.Hoffman@noaa.gov; Shelley.Norton@noaa.gov; Dennis Logan  
**Subject:** Sea turtle captures St. Lucie Plant January 2008  
**Attachments:** Jan08rep.rtf; Notes08.xls; St. Lucie caps 2008.xls

Subject: Marine Turtle Removal Monthly Summary  
January 2008

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for January 2008. In January, we captured thirty three (33) Caretta caretta and nineteen (19) Chelonia mydas in the intake canal of the St. Lucie power plant on South Hutchinson Island. The temporary, primary barrier net is in place and effectively containing all turtles in the canal to the east of that location. In January, two loggerheads were sent to rehabilitation facilities after consultation with FWCC personnel. The compromised condition of these turtles was not causal to power plant operation. All other turtles captured in January were released back to the ocean on the same day of capture.

Tag numbers and morphometric data for all turtles are attached. Also attached is a spreadsheet of all captures, mortalities, injuries and causal events delineated by species and month for 2008. This spreadsheet will be updated monthly and included in our monthly report to your agency. This spreadsheet also tracks fresh scrapes and will be helpful in determining the success of the intake pipe cleaning project. One item at the bottom of the spreadsheet provides a percentage of turtles that were found with either moderate or severe scrapes that were incurred during transit through the pipe. I felt that these scrapes were the ones that should be tracked to determine the effectiveness of the pipe cleaning, because turtles will likely still incur minor scrapes during entrainment. These minor scrapes are similar to the scrapes we see on reef turtles that inhabit high energy reefs. Please let me know if you think this is an appropriate tracking method and feel free to contact me if you have any questions or comments.

Sincerely,

Michael J. Bresette  
Sr. Environmental Specialist  
Quantum Resources, Inc.

# MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL JANUARY 2008

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
1/2/2008	<i>Caretta caretta</i>		YYB192/YYB193	69.0	70.1	75.7	69.0	56.0	54.7	44.6	South net
1/2/2008	<i>Caretta caretta</i>		YYB194/YYB195	57.6	58.9	64.0	59.8	49.9	45.2	29.5	South net
1/4/2008	<i>Chelonia mydas</i>	1	YYB196	46.4	46.6	48.9	43.1	36.4	38.1	13.0	North net
1/4/2008	<i>Caretta caretta</i>		YYB197/YYB198	59.9	61.0	66.8	64.1	52.5	48.8	33.2	South net
1/5/2008	<i>Caretta caretta</i>	2		63.7	65.5	72.2	66.1	55.4	48.8	39.0	Barrier net
1/5/2008	<i>Caretta caretta</i>	3		70.3	70.9	77.2	68.8	55.0	52.2	42.5	North net
1/5/2008	<i>Chelonia mydas</i>			27.7	28.5	29.7	26.9	23.6	22.8	2.9	North net
1/5/2008	<i>Chelonia mydas</i>			30.6	31.0	32.6	28.8	26.0	25.6	3.9	North net
1/5/2008	<i>Chelonia mydas</i>			38.6	39.0	41.0	34.9	30.5	30.1	6.3	North net
1/6/2008	<i>Chelonia mydas</i>			31.6	32.1	34.1	29.0	25.7	25.9	4.3	South net
1/7/2008	<i>Chelonia mydas</i>			29.6	30.1	31.6	27.2	24.6	24.8	2.8	Intake well
1/7/2008	<i>Caretta caretta</i>		YYB199/YYB200	72.3	73.7	80.1	76.3	59.0	57.8	61.5	North net
1/7/2008	<i>Caretta caretta</i>	4	YYB201/YYB202	68.8	70.5	75.6	71.4	57.0	55.5	50.0	North net
1/8/2008	<i>Caretta caretta</i>		YYB203/YYB204	57.2	58.4	65.8	60.0	49.4	46.4	32.8	North net
1/8/2008	<i>Caretta caretta</i>		YYB205/YYB206	61.7	63.5	68.1	61.5	49.1	49.6	36.9	South net
1/8/2008	<i>Caretta caretta</i>		YYB207/YYB208	60.6	61.4	68.2	64.5	52.8	47.8	36.5	South net
1/9/2008	<i>Chelonia mydas</i>			31.0	31.4	32.8	27.9	25.7	26.0	3.5	Dip net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
1/9/2008	<i>Caretta caretta</i>		YYB209/YYB210	66.0	67.6	73.7	68.5	57.2	51.8	41.7	North net
1/10/2008	<i>Caretta caretta</i>		YYB211/YYB212	58.5	59.4	65.6	63.0	51.3	46.9	35.5	North net
1/11/2008	<i>Chelonia mydas</i>	5		35.6	36.1	37.6	33.0	28.7	30.1	5.7	Dip net
1/11/2008	<i>Chelonia mydas</i>			28.4	29.0	29.8	26.6	24.1	23.7	3.0	Dip net
1/11/2008	<i>Caretta caretta</i>		YYB213/YYB214	64.1	65.0	69.2	63.6	54.2	50.2	38.5	South net
1/11/2008	<i>Caretta caretta</i>		YYB215/YYB216	66.1	67.2	72.0	69.4	56.0	52.4	43.1	South net
1/12/2008	<i>Caretta caretta</i>		YYB217/YYB218	58.4	59.7	65.1	63.4	50.6	45.4	29.9	North net
1/14/2008	<i>Chelonia mydas</i>	6		60.8	61.0	65.6	57.7	45.6	52.0	29.8	South net
1/14/2008	<i>Chelonia mydas</i>	7	YYB110	44.5	44.6	47.1	41.3	34.2	37.4	11.9	South net
1/14/2008	<i>Chelonia mydas</i>	8	YYB219	48.4	48.6	51.8	43.1	37.0	40.1	12.4	South net
1/15/2008	<i>Caretta caretta</i>		YYB220/YYB221	65.5	66.8	73.3	69.7	57.7	52.6	44.2	North net
1/16/2008	<i>Caretta caretta</i>		YYB222/YYB223	59.2	60.6	65.2	60.4	50.4	47.5	31.4	North net
1/17/2008	<i>Caretta caretta</i>	9	YYB049/YYB050	63.9	64.4	70.5	63.9	49.9	47.7	34.5	North net
1/18/2008	<i>Chelonia mydas</i>			26.4	26.8	28.3	24.0	21.1	22.4	2.3	Barrier net
1/19/2008	<i>Caretta caretta</i>		YYB224/YYB225	53.0	54.3	57.9	58.5	47.1	41.8	24.1	North net
1/19/2008	<i>Caretta caretta</i>		YYB226/YYB227	66.9	67.3	72.3	68.6	56.0	53.3	45.3	South net
1/22/2008	<i>Caretta caretta</i>		YYB228/YYB229	77.7	79.2	84.5	78.9	61.2	59.3	60.0	North net
1/23/2008	<i>Chelonia mydas</i>			35.6	36.2	38.1	31.5	27.1	29.1	5.2	South net
1/24/2008	<i>Caretta caretta</i>		YYB230/YYB231	57.8	58.8	63.8	58.2	48.6	45.0	29.4	North net
1/24/2008	<i>Caretta caretta</i>		YYB232/YYB233	75.6	77.1	82.2	77.7	64.6	61.6	70.0	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
1/24/2008	<i>Caretta caretta</i>		YYB234/YYB235	61.4	62.3	69.2	65.3	54.3	49.8	39.8	South net
1/25/2008	<i>Chelonia mydas</i>			28.7	28.9	30.8	27.0	24.1	23.9	3.0	Dip net
1/25/2008	<i>Caretta caretta</i>	10	YYB108/YYB109	62.8	63.6	69.0	66.1	54.2	49.7	33.5	North net
1/25/2008	<i>Chelonia mydas</i>	11	YYB134/YYB135	69.8	69.8	74.9	68.2	55.7	56.8	45.8	South net
1/25/2008	<i>Caretta caretta</i>		YYB236/YYB237	68.7	70.1	75.7	70.1	56.2	51.4	43.9	South net
1/26/2008	<i>Caretta caretta</i>		YYB238/YYB239	57.9	58.9	64.7	62.3	50.6	46.4	30.4	North net
1/26/2008	<i>Caretta caretta</i>		YYB240/YYB241	63.1	64.3	70.2	68.9	56.0	50.3	39.1	North net
1/27/2008	<i>Caretta caretta</i>		YYB242/YYB243	64.0	65.3	71.9	68.6	54.6	47.8	38.8	North net
1/28/2008	<i>Chelonia mydas</i>	12		56.4	56.7	59.3	51.3	43.9	46.8	21.6	South net
1/29/2008	<i>Caretta caretta</i>		YYB244/YYB245	61.1	61.8	66.8	62.0	51.5	47.9	33.5	North net
1/29/2008	<i>Chelonia mydas</i>		YYB246	29.7	30.3	32.4	27.5	24.0	25.2	3.4	Barrier net
1/30/2008	<i>Caretta caretta</i>		YYB247/YYB248	60.4	61.3	67.1	62.9	52.2	47.2	34.5	South net
1/31/2008	<i>Caretta caretta</i>		YYB249/YYB250	66.5	67.7	72.4	73.3	59.8	53.0	49.0	North net
1/31/2008	<i>Caretta caretta</i>		YYB251/YYB252	54.1	55.3	59.9	55.8	44.3	43.0	21.3	South net
1/31/2008	<i>Chelonia mydas</i>		YYB253	31.0	32.2	34.2	29.4	26.0	26.4	3.8	North net

## NOTES

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1. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/7/04, 11/3/04, 11/23/04 and 1/24/06.
2. Turtle found at surface of 5' barrier net. Slightly underweight and lethargic with heavy algae and barnacle growth. No wounds or abnormalities. Transported to Mote Marine Aquarium by FWCC personnel. Not causal to power plant operation.
3. Turtle found with a severe wound to left front flipper. Possible prop wound injury appearing fairly recent. Transported to Mote Marine Aquarium by FWCC personnel. Not causal to power plant operation.
4. STRANGE TAG. Whereabouts pending.
5. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/13/06 and 9/8/06.
6. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/23/98, 9/17/98, 3/6/99, 8/4/99, 10/28/99, 1/5/00, 2/17/00, 4/5/00, 7/7/00, 12/21/00, 4/5/01, 5/14/01, 7/3/01, 7/16/01, 1/29/02, 2/19/02, 7/28/02, 10/15/02, 11/16/02, 1/16/03, 10/6/03, 10/26/03, 3/2/04, 5/17/04, 2/4/05, 3/25/05, 4/14/05, 5/17/05, 6/7/05, 11/9/05, 7/19/06, 9/5/06, 11/8/06 and 11/24/07.
7. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/23/04, 8/11/06, 8/23/06, 9/30/06, 3/6/07, 8/19/07 and 12/3/07.
8. PAPILLOMAS. Tumor score = 34. Turtle was released at Hutchinson Island the same day.
9. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/6/07.
10. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/18/07, 8/21/07, 8/24/07, 9/2/07, 9/10/07, 10/25/07 and 12/17/07.
11. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/16/98, 3/11/02, 8/11/02, 5/10/05, 6/15/05, 9/2/05, 12/12/05, 4/25/06, 8/20/06 and 9/17/07.
12. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/20/98, 7/19/04, 10/16/04, 6/25/05, 7/19/05, 8/15/05, 3/15/06 and 8/14/06.

*SMCL = Straight Minimum Carapace Length*

*SMCL = Straight Standard Carapace Length*

*CSCL = Curved Standard Carapace Length*

*CMCW = Curved Maximum Carapace Width*

*SMCW = Straight Maximum Carapace Width*

*SMPL = Straight Midline Plastron Length*

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