

## Balsam, Briana

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**From:** Michael\_Bresette@fpl.com  
**Sent:** Friday, December 05, 2008 9:50 AM  
**To:** Meghan.Koperski@MyFWC.com; Logan, Dennis; Ed\_Hollowell@fpl.com; Shelley.Norton@noaa.gov; Vince\_Munne@fpl.com; Winifred.Perkins@fpl.com; Bob.Hoffman@noaa.gov; Stacy.Foster@fpl.com; David\_Niebch@fpl.com; Jodie.Gless@fpl.com  
**Subject:** November Sea Turtle captures  
**Attachments:** November08.pdf; St. Lucie caps 2008.xls

Mrs. Meghan Koperski  
Tequesta Field Laboratory  
19100 SE Federal Highway  
Tequesta, FL 33469

Subject: Marine Turtle Removal Monthly Summary  
November 2008

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for November 2008. In November, we captured eleven (11) Caretta caretta and twenty (20) Chelonia mydas at the intake canal of the St. Lucie power plant on South Hutchinson Island. On November 29, a juvenile green turtle, with extensive fibropapilloma-like tumors was found lethargic and emaciated at the top of the primary barrier net. After consultation with personnel from FWCC the turtle was scheduled to be sent to the Turtle Hospital in Marathon, however the turtle died in transport and was kept for necropsy. This incident was not considered causal to power plant operation. All other turtles were released 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 tracks fresh scrapes and will be helpful in determining the success of the intake pipe cleaning project. If you have any questions or comments about the enclosed data please contact me at your convenience.

Sincerely,

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

*(See attached file: November08.pdf)(See attached file: St. Lucie caps 2008.xls)*

**MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
NOVEMBER 2008**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
11/1/2008	<i>Chelonia mydas</i>		YYR424/YYR425	54.9	55.4	59.9	51.7	43.9	44.7	23.3	Dip net
11/2/2008	<i>Chelonia mydas</i>			31.8	32.0	34.0	29.3	26.4	26.4	4.0	Dip net
11/2/2008	<i>Chelonia mydas</i>	1	TTJ832	50.8	51.0	54.4	48.8	40.8	41.8	17.6	South net
11/2/2008	<i>Chelonia mydas</i>	2	YYB179/YYB180	56.4	56.6	60.7	52.3	44.2	47.0	26.0	South net
11/4/2008	<i>Caretta caretta</i>		YYR426/YYR427	65.6	67.0	71.6	69.7	56.1	51.3	38.9	South net
11/4/2008	<i>Caretta caretta</i>		YYR428/YYR429	65.5	67.3	73.2	69.4	56.7	50.4	36.3	South net
11/5/2008	<i>Caretta caretta</i>		YYR430/YYR431	59.8	60.5	67.0	62.9	51.6	46.4	30.2	South net
11/5/2008	<i>Chelonia mydas</i>		YYR432	28.6	29.2	30.9	25.5	22.6	23.5	2.8	South net
11/6/2008	<i>Chelonia mydas</i>			38.2	38.6	40.7	34.0	31.1	31.6	7.1	South net
11/6/2008	<i>Chelonia mydas</i>	3		38.5	38.7	41.6	36.0	30.6	32.2	7.4	South net
11/6/2008	<i>Caretta caretta</i>		YYR433/YYR434	62.1	63.0	70.1	63.4	51.7	48.7	37.1	South net
11/7/2008	<i>Caretta caretta</i>		YYR435/YYR436	61.6	62.7	66.4	65.8	52.6	47.8	35.0	South net
11/9/2008	<i>Chelonia mydas</i>			28.3	28.6	30.4	26.2	23.5	24.2	3.0	Dip net
11/9/2008	<i>Chelonia mydas</i>	4	YYR412/YYR413	40.8	41.2	43.9	36.9	31.6	33.6	9.4	South net
11/9/2008	<i>Caretta caretta</i>		YYR437/YYR438	62.5	63.4	68.5	65.1	52.4	49.2	33.6	South net
11/10/2008	<i>Chelonia mydas</i>		YYR439/YYR440	49.2	50.1	52.5	47.9	40.5	41.7	15.3	South net
11/12/2008	<i>Chelonia mydas</i>	5	YYB181	44.5	44.5	47.6	40.3	33.5	37.2	12.2	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
11/15/2008	<i>Chelonia mydas</i>			27.9	28.6	30.1	26.1	23.4	23.4	3.1	Hand capture
11/15/2008	<i>Caretta caretta</i>		YJR441/YJR442	55.0	56.2	61.1	57.8	48.3	44.4	26.2	South net
11/17/2008	<i>Caretta caretta</i>		YJR443/YJR444	57.9	58.7	63.4	62.2	50.0	45.4	31.2	South net
11/21/2008	<i>Caretta caretta</i>		YJR445/YJR446	64.9	66.1	72.9	68.3	55.6	49.4	37.2	South net
11/22/2008	<i>Caretta caretta</i>	6	YJB282/YJB283	70.2	71.3	76.4	71.2	57.2	52.9	44.5	South net
11/24/2008	<i>Caretta caretta</i>		YJR447/YJR448	59.5	60.6	66.3	64.3	51.5	49.9	35.0	South net
11/24/2008	<i>Chelonia mydas</i>		YJR449	39.8	40.3	42.8	40.0	33.9	34.8	11.5	Dip net
11/25/2008	<i>Chelonia mydas</i>			27.0	27.4	29.0	25.0	22.0	22.9	2.6	Dip net
11/25/2008	<i>Chelonia mydas</i>	7	YJR450	52.9	53.1	56.2	45.8	39.7	44.8	18.1	South net
11/25/2008	<i>Chelonia mydas</i>		YJR451	40.7	41.0	43.4	37.8	33.3	33.8	8.8	Dip net
11/26/2008	<i>Chelonia mydas</i>	8	RRM837	48.4	48.4	51.8	48.2	38.9	39.2	15.6	Dip net
11/28/2008	<i>Chelonia mydas</i>	9	YJB389	44.9	45.3	48.6	41.7	35.1	37.0	12.8	Hand capture
11/29/2008	<i>Chelonia mydas</i>	10		33.8	34.1	35.9	32.5	28.3	27.0	4.0	Barrier net
11/30/2008	<i>Chelonia mydas</i>	11		45.0	45.3	48.4	42.5	35.2	38.1	13.6	Dip net

## NOTES

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- 1 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/28/01, 12/9/01, 3/1/06, 5/31/06, 7/18/06, 8/3/06, 9/9/06, 12/14/06, 2/21/07 and 6/4/08.
- 2 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/15/03, 7/17/03, 11/26/03, 4/1/04, 5/14/05, 7/2/05, 7/23/05, 10/17/05, 5/10/06, 8/21/06, 9/25/06, 12/2/07 and 3/15/08.
- 3 PAPILOMAS. Tumor score = 34. Turtle was released at Hutchinson Island the same day.
- 4 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/22/08.
- 5 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/11/04, 9/13/05, 4/26/06, 7/16/06, 12/3/07, 2/1/08, 4/23/08, 9/2/08 and 10/15/08.
- 6 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/26/08, 8/4/08, 9/11/08 and 10/6/08.
- 7 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 1/27/03, 10/29/04, 7/9/05 and 8/3/05.
- 8 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/1/04, 11/3/04, 11/21/04, 7/8/05, 8/12/05, 9/13/05, 4/24/06, 9/29/06, 11/19/06, 12/4/06, 12/9/07, 2/10/08, 4/3/08 and 9/14/08.
- 9 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/5/05, 9/23/06, 10/10/06, 10/24/06, 12/28/06, 12/9/07, 4/8/08 and 10/16/08.
- 10 Turtle found lethargic and emaciated with numerous papillomas. Tumor score = 23. Died during transport to Marathon Turtle Hospital. Not causal to power plant operation.
- 11 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, 12/3/07, 1/14/08, 2/21/08, 3/19/08, 5/5/08, 5/31/08, 7/7/08 and 9/17/08.

*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*

	<b>Loggerheads</b> <i>(Caretta caretta)</i>		<b>Green turtles</b> <i>(Chelonia mydas)</i>		<b>Hawksbills</b> <i>(Eretmochelys imbricata)</i>		<b>Leatherbacks</b> <i>(Dermochelys coriacea)</i>		<b>Kemp's ridley</b> <i>(Lepidochelys kempii)</i>		<b>Overall Totals</b>	
	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>
<b>Captures</b>	<b>11</b>	372	<b>20</b>	212	<b>0</b>	4	<b>0</b>	0	<b>0</b>	2	<b>31</b>	<b>628</b>
<b>Causal Mortalities</b>	<b>0</b>	0	<b>0</b>	1	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	<b>1</b>
<b>Non-causal Mortalities</b>	<b>0</b>	2	<b>0</b>	1	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	<b>4</b>
<b>Causal Injuries</b>	<b>0</b>	1	<b>0</b>	1	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	<b>3</b>
<b>Sent to rehab</b>	<b>0</b>	17	<b>1</b>	2	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>1</b>	<b>19</b>
<b>Fresh Scrapes</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>	<b>Nov-08</b>	<b>Year to Date</b>
<b>None</b>	<b>0</b>	35	<b>5</b>	40	<b>0</b>	3	<b>0</b>	0	<b>0</b>	1	<b>5</b>	<b>79</b>
<b>Minor</b>	<b>8</b>	193	<b>11</b>	134	<b>0</b>	1	<b>0</b>	0	<b>0</b>	0	<b>19</b>	<b>328</b>
<b>Moderate</b>	<b>3</b>	128	<b>4</b>	69	<b>0</b>	0	<b>0</b>	0	<b>0</b>	1	<b>7</b>	<b>198</b>
<b>Severe</b>	<b>0</b>	5	<b>0</b>	5	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	<b>10</b>
<b>Percent with mod/sev scrapes</b>	27.3%	35.8%	20.0%	34.9%	#DIV/0!	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	50.0%	22.6%	33.1%