

Balsam, Briana

From: Michael_Bresette@fpl.com
Sent: Thursday, September 11, 2008 11:41 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: August sea turtle captures
Attachments: St. Lucie caps 2008.xls; August08rep.rtf; Notes08.xls

ADAMSAccessionNumberML082950563

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

Subject: Marine Turtle Removal Monthly Summary
August 2008

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for August 2008. In August, we captured thirty three (33) Caretta caretta and thirteen (13) Chelonia mydas at the intake canal of the St. Lucie power plant on South Hutchinson Island. During August, a juvenile green turtle was recovered dead from under the west side of the primary barrier net where it apparently drowned. This mortality was considered causal to power plant operation and will go against the take limit established in the latest Biological Opinion. The primary barrier net failed on August 20th during tropical storm Faye due to excessive buildup of algae. The juvenile green turtle that was found by divers had apparently gone over the top of the barrier net when it failed and was trapped under the west side of the net as it was loaded with algae. Within a week the net was restored and final adjustments were being completed at the time of this report. When the barrier net was raised it trapped several turtles between the A1A net and the primary barrier net. Directed capture efforts were conducted to remove these turtles as soon as possible. To date, seven turtles have been hand captured between the two barrier nets. There are still two loggerheads and a green turtle between the two nets, but we are confident we will have those turtles removed within the week. Since the barrier net failed, we have increased monitoring effort west of the A1A barrier net to determine if turtles moved further down the canal during tropical storm Faye. We will continue to monitor west of the A1A net to the security net twice a day until we're confident no turtles are in that area of the canal. Additionally, increased monitoring of the intake well area of the canal is conducted twice a day by personnel using a boat and dipnets. This will also continue until we're confident no turtles are in the intake well

area.

On August 31, a lethargic and underweight loggerhead was found at the top of the primary barrier net and was transported to SeaWorld for rehabilitation after consultation with personnel from FWCC. 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: St. Lucie caps 2008.xls)(See attached file: August08rep.rtf)(See attached file: Notes08.xls)

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

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/3/2008	<i>Caretta caretta</i>		YYR222/YYR223	60.1	60.6	65.9	65.2	51.3	46.4	30.5	Hand capture
8/4/2008	<i>Chelonia mydas</i>	1	YYB268	57.6	58.0	63.2	56.7	45.1	47.7	26.2	Hand capture
8/4/2008	<i>Caretta caretta</i>	2	YYB282/YYB283	70.2	71.3	76.8	72.0	56.7	52.9	47.4	Hand capture
8/4/2008	<i>Chelonia mydas</i>	3	YYB418	49.8	50.1	53.6	49.9	42.1	42.5	19.3	Hand capture
8/4/2008	<i>Caretta caretta</i>		YYR224/YYR225	69.1	70.3	76.1	73.6	59.1	53.1	48.3	Hand capture
8/4/2008	<i>Caretta caretta</i>		YYR226/YYR227	66.0	67.5	72.0	67.9	55.5	52.1	39.1	Hand capture
8/4/2008	<i>Caretta caretta</i>		YYR228	69.4	70.5	74.3	71.0	55.9	54.5	48.7	Hand capture
8/4/2008	<i>Chelonia mydas</i>	4	YYR229	45.3	45.9	48.6	41.5	36.2	37.3	12.4	Hand capture
8/5/2008	<i>Chelonia mydas</i>			36.7	37.2	39.6	34.7	29.6	29.6	6.3	North net
8/5/2008	<i>Caretta caretta</i>	5	N9865	84.5	85.3	93.6	88.5	66.5	65.9	90.9	South net
8/5/2008	<i>Chelonia mydas</i>	6	TTY381	45.5	45.7	48.6	41.8	35.1	38.5	13.0	North net
8/6/2008	<i>Caretta caretta</i>	7	YYR230/YYR231	90.3	90.9	97.7	86.8	69.8	70.3	103.8	South net
8/6/2008	<i>Caretta caretta</i>		YYR232/YYR233	62.6	63.7	69.1	63.7	52.1	49.3	38.1	North net
8/7/2008	<i>Caretta caretta</i>	8		72.5	73.9	79.8	73.4	58.7	57.0	59.5	Hand capture
8/7/2008	<i>Caretta caretta</i>		YYR234/YYR235	66.4	67.9	74.2	68.6	52.3	50.4	41.2	Hand capture
8/7/2008	<i>Caretta caretta</i>		YYR236/YYR237	63.5	64.5	69.7	67.8	54.8	48.1	34.2	Hand capture
8/10/2008	<i>Caretta caretta</i>		YYR238/YYR239	65.5	66.2	72.2	68.8	52.7	50.8	34.3	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/10/2008	<i>Caretta caretta</i>		YYR240/YYR241	62.1	63.3	69.2	62.9	52.9	48.9	32.7	North net
8/11/2008	<i>Chelonia mydas</i>	9	YYR242/YYR243	94.0	94.8	102.5	91.7	73.0	79.0	128.2	South net
8/12/2008	<i>Caretta caretta</i>	10		85.3	85.5	91.4	80.0	65.2	60.9	86.5	North net
8/16/2008	<i>Caretta caretta</i>		YYR244/YYR245	70.5	71.8	78.3	76.2	61.6	54.2	57.1	North net
8/17/2008	<i>Caretta caretta</i>	11	RRW832/RRW833	59.5	61.7	68.5	64.5	52.7	46.7	34.4	North net
8/23/2008	<i>Caretta caretta</i>	12	YYR100/YYR101	61.1	62.4	66.1	64.7	50.9	47.2	33.9	South net
8/23/2008	<i>Caretta caretta</i>		YYR246/YYR247	60.8	62.5	66.7	64.7	52.1	46.9	32.9	South net
8/23/2008	<i>Chelonia mydas</i>		YYR248	31.1	32.1	33.4	29.1	26.4	26.4	3.6	South net
8/24/2008	<i>Caretta caretta</i>	13	YYB108/YYB109	62.7	64.2	68.2	66.4	54.4	50.1	34.6	North net
8/24/2008	<i>Caretta caretta</i>		YYR249/YYR250	65.5	66.3	71.7	68.1	55.6	50.2	40.2	North net
8/25/2008	<i>Chelonia mydas</i>			29.6	29.9	31.5	26.0	22.9	24.0	3.0	South net
8/25/2008	<i>Chelonia mydas</i>			32.3	32.4	34.0	29.7	26.3	27.9	4.3	South net
8/25/2008	<i>Chelonia mydas</i>	14	YYB268	58.4	58.6	63.2	57.0	45.5	48.4	27.7	North net
8/27/2008	<i>Caretta caretta</i>		YYR251/YYR252	69.0	70.6	76.3	73.1	57.1	53.9	46.3	South net
8/27/2008	<i>Caretta caretta</i>	15	YYR253	84.9	85.2	91.4	81.0	65.0	60.5	77.9	North net
8/28/2008	<i>Caretta caretta</i>	16	YYR254/YYR255	97.3	98.2	108.5	98.6	78.4	76.2	132.5	South net
8/28/2008	<i>Caretta caretta</i>		YYR256/YYR257	63.0	64.1	70.9	67.0	53.8	49.0	34.4	Between barrier nets
8/28/2008	<i>Caretta caretta</i>		YYR258/YYR259	69.3	69.9	76.7	72.4	60.3	54.9	50.2	Between barrier nets
8/28/2008	<i>Chelonia mydas</i>	17	YYR260	43.1	43.4	46.5	41.1	35.1	35.9	12.1	North net
8/28/2008	<i>Caretta caretta</i>		YYR261/YYR262	64.0	65.5	71.2	66.2	55.5	51.6	37.1	Between barrier nets

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/28/2008	<i>Caretta caretta</i>		YYR263/YYR264	67.9	70.2	75.6	71.4	57.8	53.0	43.6	Between barrier nets
8/29/2008	<i>Chelonia mydas</i>	18		29.6	30.0	31.6	25.8	22.4	23.6	3.0	Between barrier nets
8/29/2008	<i>Caretta caretta</i>		YYR265/YYR266	64.9	65.6	70.9	68.0	56.0	50.2	36.4	Between barrier nets
8/29/2008	<i>Caretta caretta</i>		YYR267/YYR268	66.9	68.3	74.9	72.0	57.0	52.4	45.8	Between barrier nets
8/30/2008	<i>Chelonia mydas</i>			29.0	29.2	30.6	26.5	23.3	24.3	3.0	South net
8/31/2008	<i>Caretta caretta</i>	19	YYR269/YYR270	75.5	77.4	81.7	77.6	62.3	59.4	64.3	Barrier net
8/31/2008	<i>Caretta caretta</i>		YYR271/YYR272	62.2	63.0	68.5	68.3	55.1	50.6	40.3	North net
8/31/2008	<i>Caretta caretta</i>		YYR273/YYR274	66.3	67.2	74.2	72.5	61.3	53.9	44.7	North net
8/31/2008	<i>Caretta caretta</i>	20	YYR275/YYR276	89.9	91.2	98.0	90.7	67.5	69.3	111.8	South net

NOTES

1. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/21/99, 1/17/02, 11/21/02, 12/23/03, 10/10/04, 3/30/05, 6/14/05, 7/13/05, 8/28/07 and 2/5/08.
2. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/26/08.
3. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/17/01, 5/5/03, 6/1/03, 6/18/03, 7/23/03, 10/4/03, 11/7/03, 7/9/05, 10/3/05, 1/26/06, 9/12/06, 7/1/07, 9/1/07 4/18/08 and 5/25/08.
4. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/17/05 and 5/15/07.
5. Strange tag, whereabouts pending. Adult female. Tail length = 207 mm.
6. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/8/01, 5/3/05, 5/9/05, 7/7/05, 5/16/06, 8/23/06, 9/12/06, 10/30/06, 4/26/07 and 4/12/08.
7. Adult female. Tail length = 207 mm.
8. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/4/02, 9/17/02, 11/5/02, 4/15/03, 7/1/03, 2/16/04, 4/11/05, 6/19/06, 9/16/06 and 8/15/07.
9. Adult female. Tail length = 207 mm.
10. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/3/03 and 9/17/05. Adult male. Tail length = 441 mm.
11. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/10/04, 7/24/05 and 1/30/06.
12. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/1/08.
13. 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, 12/17/07, 1/25/08, 4/6/08, 4/30/08 and 7/13/08.
14. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/21/99, 1/17/02, 11/21/02, 12/23/03, 10/10/04, 3/30/05, 6/14/05, 7/13/05, 8/28/07, 2/5/08 and 8/4/08.
15. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/3/03, 9/17/05 and 8/12/08. Adult male. Tail length = 441 mm.
16. Adult female. Tail length = 190 mm.
17. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/24/03, 1/16/04, 9/23/05 and 9/19/06.
18. Turtle recovered (fresh dead) from under west side of primary barrier net. No wounds or abnormalities. Causal to power plant operation. Held in freezer for necropsy.
19. Turtle removed from surface of primary barrier net. Lethargic with no wounds or abnormalities. Held overnight for transport to Sea World on 9/1/08. Not causal to power plant operation.
20. Adult female. Tail length = 255 mm.

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

	Loggerheads <i>(Caretta caretta)</i>		Green turtles <i>(Chelonia mydas)</i>		Hawksbills <i>(Eretmochelys imbricata)</i>		Leatherbacks <i>(Dermochelys coriacea)</i>		Kemp's ridley <i>(Lepidochelys kempii)</i>		Overall Totals	
	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date
Captures	33	295	13	142	0	4	0	0	0	2	46	443
Causal Mortalities	0	0	1	1	0	0	0	0	0	0	1	1
Non-causal Mortalities	0	2	0	1	0	0	0	0	0	0	0	3
Causal Injuries	0	1	0	1	0	0	0	0	0	0	0	2
Sent to rehab	0	14	0	0	0	0	0	0	0	0	0	14
Fresh Scrapes	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date
None	2	32	1	28	0	3	0	0	0	1	3	64
Minor	15	147	7	74	0	1	0	0	0	0	22	222
Moderate	16	104	5	37	0	0	0	0	0	1	21	142
Severe	0	4	0	3	0	0	0	0	0	0	0	7
Percent with mod/sev scrapes	48.5%	36.6%	38.5%	28.2%	#DIV/0!	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	50.0%	45.7%	33.6%

Balsam, Briana

From: Michael_Bresette@fpl.com
Sent: Friday, September 12, 2008 10:29 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: Correction August sea turtle captures
Attachments: St. Lucie caps 2008.xls

ADAMSAccessionNumberML082950563

Please see the attached, corrected spreadsheet for turtles captured in August. I had forgotten to add the loggerhead that went to rehab to the list. - Michael

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

	Loggerheads <i>(Caretta caretta)</i>		Green turtles <i>(Chelonia mydas)</i>		Hawksbills <i>(Eretmochelys imbricata)</i>		Leatherbacks <i>(Dermochelys coriacea)</i>		Kemp's ridley <i>(Lepidochelys kempii)</i>		Overall Totals	
	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date
Captures	33	295	13	142	0	4	0	0	0	2	46	443
Causal Mortalities	0	0	1	1	0	0	0	0	0	0	1	1
Non-causal Mortalities	0	2	0	1	0	0	0	0	0	0	0	3
Causal Injuries	0	1	0	1	0	0	0	0	0	0	0	2
Sent to rehab	1	15	0	0	0	0	0	0	0	0	1	15
Fresh Scrapes	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date	Aug-08	Year to Date
None	2	32	1	28	0	3	0	0	0	1	3	64
Minor	15	147	7	74	0	1	0	0	0	0	22	222
Moderate	16	104	5	37	0	0	0	0	0	1	21	142
Severe	0	4	0	3	0	0	0	0	0	0	0	7
Percent with mod/sev scrapes	48.5%	36.6%	38.5%	28.2%	#DIV/0!	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	50.0%	45.7%	33.6%