

**From:** Steve Weege <sweege@inwater.org>  
**Sent:** Wednesday, October 12, 2022 1:23 PM  
**To:** Koperski, Meghan  
**Cc:** Eldridge, Jodie; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Eaton, Kristin; William Nurnberger; Audra Livergood - NOAA Federal; Cody Mott; Jguertin  
**Subject:** [External\_Sender] September 2022 FPL Marine Turtle Removal Monthly Report  
**Attachments:** September 2022 Marine Turtle Captures.pdf; Monthly Report Notes 2022.pdf; FPL St. Lucie Capture Summary 2022.pdf

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

**Subject: Marine Turtle Removal Monthly Summary  
September 2022**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for September 2022. This month we captured three *Caretta caretta* and four *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were no mortalities or sea turtles sent for rehabilitation this month. The primary 5-inch barrier net encountered severe amounts of moon jellyfish this past month. However, the impact of the jellyfish intrusion was attenuated by the short-term planned power plant outage that began on September 3<sup>rd</sup>. Even so, IRG performed around-the-clock monitoring of the intake canal and barrier net system either as warranted by sufficiently high debris intrusion levels or whenever directed by FPL oversight personnel. Furthermore, Underwater Engineering Services (UESI) divers inspected and cleaned the 5-inch barrier net as needed.

Following Hurricane Ian, UESI performed the quarterly net inspections on the first two barrier nets (the 5-inch and 8-inch A-1-A) as well as the semiannual inspection of the UIDS net; the barrier nets were found to be in good working condition. Altogether, the primary barrier net has performed as designed and no turtles have been observed beyond the 5- inch net.

The tag numbers and morphometric data for all turtles captured during the month have been included with this report (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for 2022. In addition, this spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year.

Please feel free to contact me with any questions.

Sincerely,  
Steve  
Steve Weege  
Sr. Environmental Specialist  
Inwater Research Group, Inc.  
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**Subject:** [External\_Sender] September 2022 FPL Marine Turtle Removal Monthly Report  
**Sent Date:** 10/12/2022 1:22:40 PM  
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**From:** Steve Weege

**Created By:** sweege@inwater.org

**Recipients:**

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Tracking Status: None  
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**Post Office:** mail.gmail.com

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	2114	10/12/2022 1:23:50 PM
September 2022 Marine Turtle Captures.pdf		245419
Monthly Report Notes 2022.pdf	174277	
FPL St. Lucie Capture Summary 2022.pdf		251973

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**MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
SEPTEMBER 2022**

<b>Date</b>	<b>Species</b>	<b>Note</b>	<b>Tag #'s</b>	<b>SMCL (cm)</b>	<b>SSCL (cm)</b>	<b>CSCl (cm)</b>	<b>CMCW (cm)</b>	<b>SMCW (cm)</b>	<b>SMPL (cm)</b>	<b>Weight (kg)</b>	<b>Method</b>
9/8/2022	<i>Chelonia mydas</i>		FFE772/FFE773	69.8	71.1	74.0	71.6	55.9	56.1	46.7	South net
9/12/2022	<i>Caretta caretta</i>		FFE774/FFE775	67.4	68.3	73.9	72.4	56.5	54.8	46.6	South net
9/15/2022	<i>Caretta caretta</i>		FFE776/FFE777	81.0	82.6	86.6	78.8	64.0	61.5	79.3	South net
9/22/2022	<i>Caretta caretta</i>	1	FFE778/FFE779	79.8	80.8	87.4	79.0	59.4	61.2	73.2	South net
9/30/2022	<i>Chelonia mydas</i>	2	FFE780/FFE781	45.6	45.8	48.1	41.2	35.2	39.3	12.9	South net
9/30/2022	<i>Chelonia mydas</i>		IRG0426/IRG0427	29.1	29.5	31.3	27.5	23.6	24.3	3.3	South net
9/30/2022	<i>Chelonia mydas</i>		IRG0428/IRG0429	28.6	28.8	30.6	25.5	23.3	23.3	3.1	Dip net

## NOTES

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1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/4/17, 8/28/19, and 9/22/22. New Inconel tags inserted on this capture event.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/7/17 and 9/30/22. Inconel tags inserted on this capture event. Large indentation in right anterior carapace from previous healed injury.

*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	
	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date
<b>Captures</b>	<b>3</b>	117	<b>4</b>	46	<b>0</b>	0	<b>0</b>	1	<b>0</b>	1	<b>7</b>	165
<b>Causal Mortalities</b>	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	1	<b>0</b>	1
<b>Non-causal Mortalities</b>	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0
<b>Causal Injuries</b>	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0
<b>Sent to rehab</b>	<b>0</b>	3	<b>0</b>	2	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	5
<b>Fresh Scrapes</b>	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date	Sep-22	Year to Date
<b>None</b>	<b>1</b>	18	<b>2</b>	8	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>3</b>	26
<b>Minor</b>	<b>2</b>	92	<b>2</b>	38	<b>0</b>	0	<b>0</b>	0	<b>0</b>	1	<b>4</b>	131
<b>Moderate</b>	<b>0</b>	7	<b>0</b>	0	<b>0</b>	0	<b>0</b>	1	<b>0</b>	0	<b>0</b>	8
<b>Severe</b>	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0	<b>0</b>	0
<b>Percent with mod/sev scrapes</b>	<b>0.0%</b>	6.0%	<b>0.0%</b>	0.0%	<b>N/A</b>	N/A	<b>N/A</b>	100.0%	<b>N/A</b>	0.0%	<b>0.0%</b>	4.8%