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       50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.      05000389  
 AUTH. NAME      AUTHOR AFFILIATION  
 SAGER, D.A.      Florida Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: "Quarterly Turtle Activities Rept for Second Quarter 1990."  
 W/900712 ltr.

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L-90-253

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Unit Nos. 1 and 2  
Docket Nos. 50-335 and 50-389  
Quarterly Turtle Activities Report

Attached for your information is a copy of the subject report for the second quarter 1990, which was submitted to the Florida Department of Natural Resources, Florida Marine Research Institute on July 2, 1990.

Very truly yours,

*DA Sager*

D. A. Sager  
Vice President  
St. Lucie Plant

DAS/DMB/gp

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II,  
USNRC  
Senior Resident Inspector, USNRC, St. Lucie Plant

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MANAGER  
ENVIRONMENTAL AFFAIRS

Applied Biology, Inc.  
P.O. Box 974  
Jensen Beach, FL 34958

July 2, 1990

ENVIRONMENTAL  
H E A L T H  
SPECIALISTS

Mr. J. Alan Huff  
Florida Department of  
Natural Resources  
Florida Marine Research Institute  
100 Eighth Avenue, SE  
St. Petersburg, FL 33701-5095

Dear Alan:

Fifty-seven loggerhead turtles and three green turtles were removed from the St. Lucie Plant intake canal during the April - June quarter of 1990. All sixty turtles were released into the ocean from Hutchinson Island. Measurements for all animals are attached.

As always, feel free to contact me if you have any questions concerning the enclosed information.

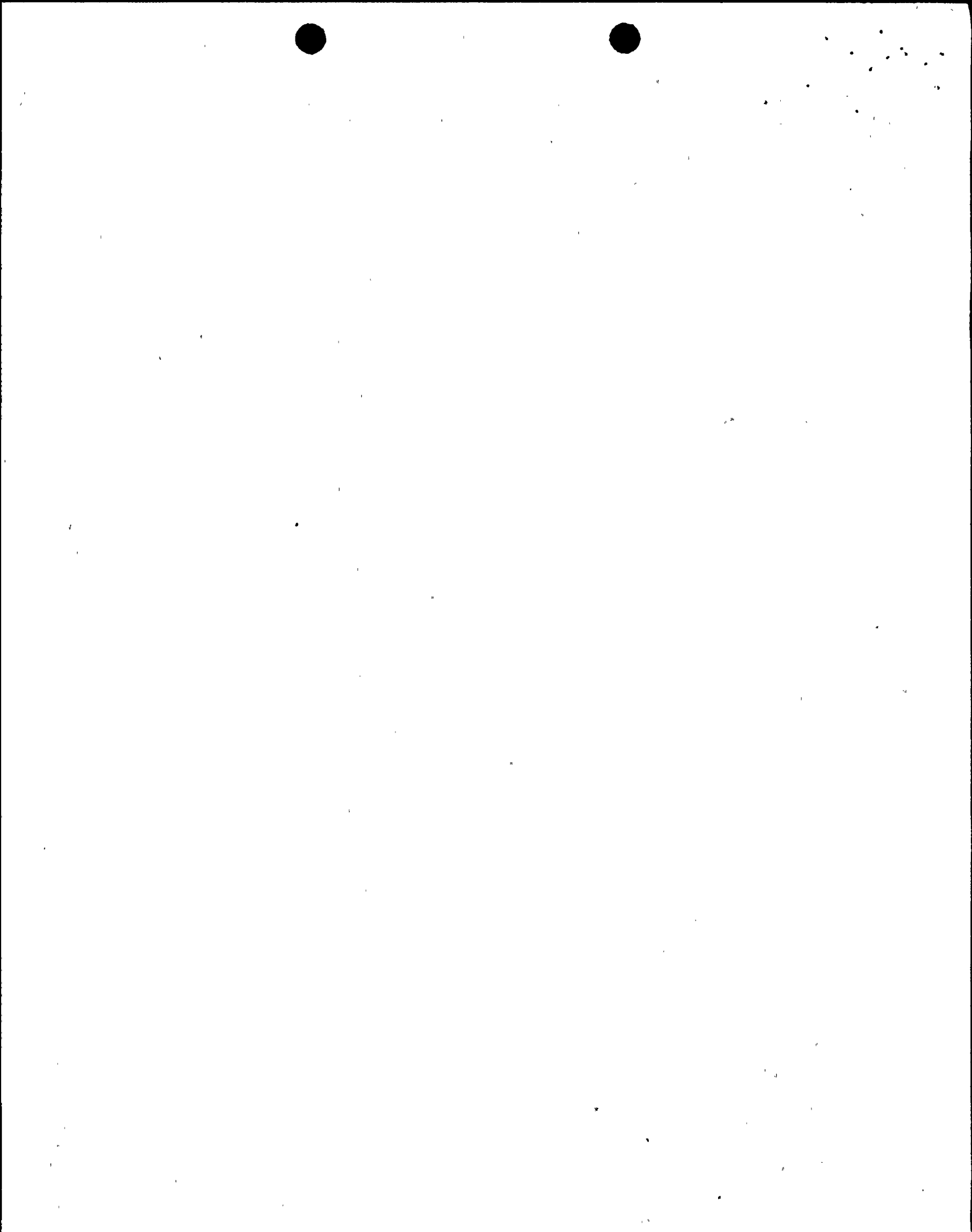
Sincerely,



R. Erik Martin  
Senior Scientist

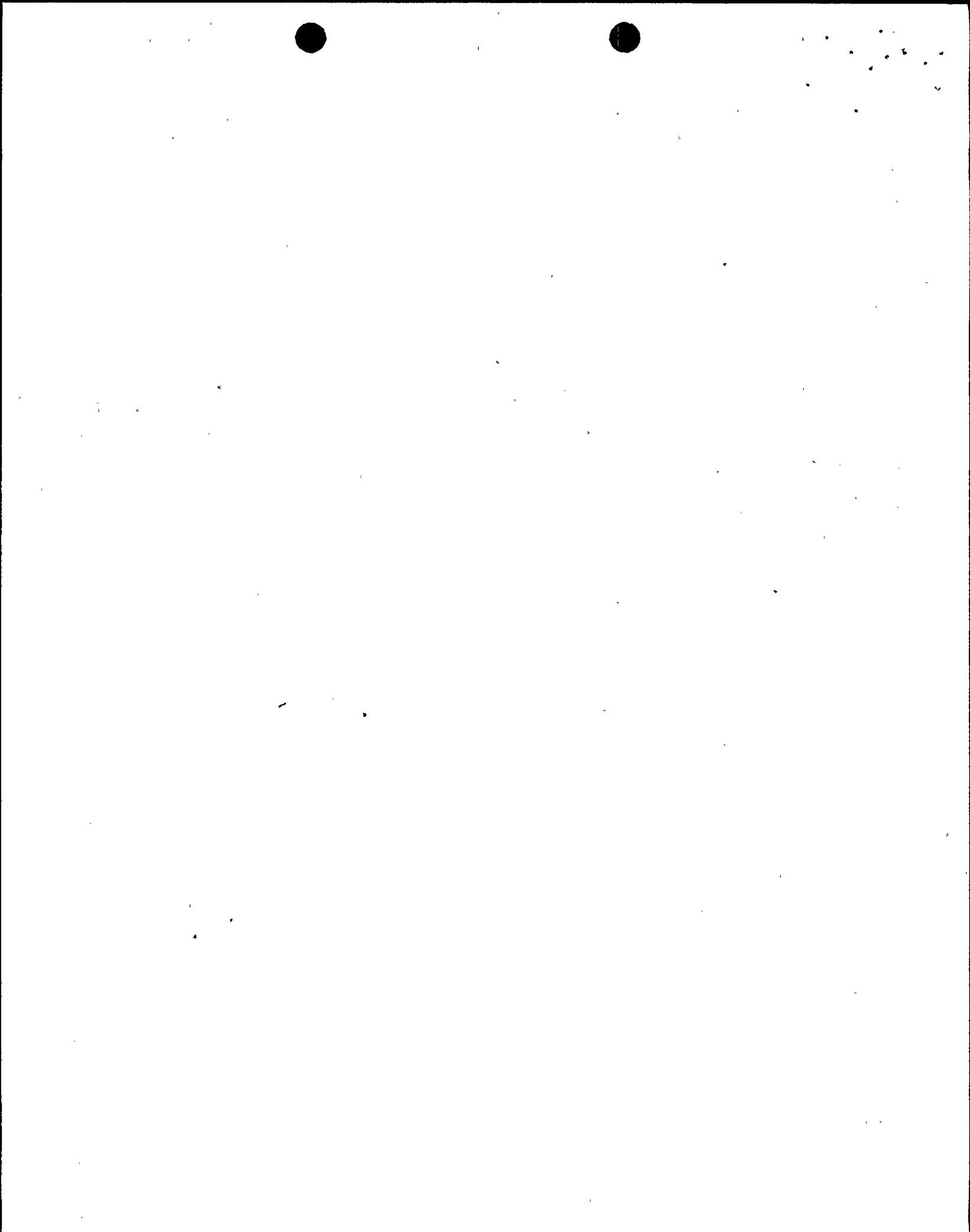
REM/mnm  
enclosure

cc: J.R. Wilcox (FPL)  
C.A. Oravetz (NMFS)  
N.B. Thompson (NMFS)  
R.G. Ernest (ABI)



MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
APRIL - JUNE 1990

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals									
040290	<u>C. caretta</u>	AAJ796/PPW485	81.1	82.1	88.9	85.7	66.3	63.2	144
040390	<u>C. caretta</u>	AAJ797/PPW482	68.7	69.9	75.0	69.5	56.2	50.3	93
040990	<u>C. caretta</u>	AAJ798/PPW486	52.5	54.7	57.8	56.2	46.7	41.7	49
041190	<u>C. caretta</u>	AAJ799/PPW487	64.9	66.2	71.0	67.7	58.3	52.6	97
041290	<u>C. caretta</u>	AAJ800/PPW488	66.4	67.5	70.1	66.8	56.4	54.0	103
041690	<u>C. mydas</u>	PPW489/PPW490	31.1	31.4	32.5	28.1	25.5	26.3	8.7
042390	<u>C. caretta</u>	AAJ801/PPW491	53.8	54.5	59.9	54.0	45.6	43.1	51
042590	<u>C. caretta</u>	AAJ802/PPW492	58.5	59.2	64.2	61.2	51.3	46.1	67
043090	<u>C. caretta</u> <sup>1</sup>	AAJ804/PPW494	90.5	92.6	97.8	94.2	71.8	71.8	298
043090	<u>C. caretta</u>	AAJ805/PPW495	46.0	46.7	51.5	45.6	39.3	36.2	31
050190	<u>C. caretta</u> <sup>2</sup>	AAJ806/PPW496	91.4	93.3	96.5	90.0	71.0	68.6	238
050290	<u>C. caretta</u>	AAJ807/PPW497	60.2	61.7	65.5	62.2	51.4	48.4	78
050290	<u>C. caretta</u>	AAJ808/PPW498	53.0	54.1	58.3	57.3	46.4	41.6	51
050290	<u>C. caretta</u> <sup>3</sup>	AAJ791/PPW480	54.3	55.2	59.9	55.9	46.2	42.0	54
050790	<u>C. caretta</u>	AAJ809/PPW499	66.0	67.4	72.8	67.0	54.4	50.9	84
050790	<u>C. caretta</u> <sup>2</sup>	AAJ810/PPW500	89.3	90.2	96.8	85.6	66.6	64.5	219
050890	<u>C. caretta</u> <sup>2</sup>	AAJ811/PPW501	93.6	95.6	100.0	90.1	70.4	71.1	245
050890	<u>C. caretta</u> <sup>1</sup>	AAJ812/PPW502	94.5	95.2	99.3	88.4	71.3	73.2	244
051090	<u>C. caretta</u> <sup>1</sup>	AAJ813/PPW503	102.5	103.3	109.5	94.3	68.8	76.8	331
051090	<u>C. caretta</u>	AAJ814/PPW505	66.7	68.4	75.1	68.4	55.0	50.1	97
051190	<u>C. caretta</u>	AAJ815/PPW506	58.9	59.7	63.5	60.3	50.7	44.2	66



DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (cont'd)									
051490	<u>C. mydas</u>	PPW507/PPW508	28.8	29.3	30.7	27.3	23.6	25.2	8.5
051590	<u>C. caretta</u>	AAJ816/PPW509	40.2	40.9	45.4	43.0	35.5	31.2	23.5
051690	<u>C. caretta</u>	AAJ817/PPW510	62.0	62.9	67.2	61.0	51.6	47.5	78
051790	<u>C. caretta</u> <sup>4</sup>	AAJ814/PPW505	66.9	68.7	75.4	68.5	54.9	49.3	101
051790	<u>C. caretta</u>	AAJ818/PPW511	83.1	83.7	94.0	78.3	62.0	63.2	170
051790	<u>C. caretta</u> <sup>5</sup>	AAJ819/PPW512 HI2848	95.2	95.7	102.6	93.2	72.7	73.0	275
051890	<u>C. caretta</u> <sup>1</sup>	AAJ820/PPW513	91.0	91.5	97.4	88.2	66.3	70.3	233
052490	<u>C. caretta</u> <sup>1</sup>	AAJ821/PPW514	97.6	99.0	105.8	99.8	77.1	78.2	354
052990	<u>C. caretta</u> <sup>1</sup>	AAJ822/PPW515	94.4	94.8	100.4	93.9	76.3	74.9	293
052990	<u>C. caretta</u> <sup>1</sup>	AAJ824/PPW516	93.7	94.7	100.6	86.6	66.0	70.5	253
053090	<u>C. caretta</u> <sup>1</sup>	AAJ826/PPW517	86.0	87.8	95.2	89.3	68.8	68.1	233
053190	<u>C. caretta</u> <sup>1</sup>	AAJ827/PPW518	93.2	95.7	101.1	90.3	71.3	74.6	270
053190	<u>C. caretta</u>	AAJ828/PPW519	62.0	64.6	68.2	66.0	54.6	50.3	90
060190	<u>C. caretta</u> <sup>6</sup>	PPJ100/NNW687 X161	70.0	72.4	76.0	69.7	57.4	53.7	112
060190	<u>C. caretta</u>	AAJ825/PPW520	79.1	79.5	86.2	78.0	63.6	60.8	162
060490	<u>C. caretta</u>	AAJ829/PPW521	84.9	85.3	90.2	82.4	62.3	66.6	199
060490	<u>C. caretta</u> <sup>1</sup>	AAJ830/PPW522	89.4	89.6	95.6	89.6	68.0	70.1	247
060490	<u>C. caretta</u>	AAJ831/PPW523	48.7	50.2	53.4	50.7	44.5	38.7	45
060490	<u>C. caretta</u> <sup>1</sup>	AAJ832/PPW524	93.3	95.0	99.4	91.8	71.6	71.0	258
060490	<u>C. caretta</u>	AAJ833/PPW525	67.2	67.6	73.9	70.9	55.5	53.0	102
060590	<u>C. caretta</u> <sup>1</sup>	AAJ834/AAJ835	87.5	89.1	95.8	89.3	70.3	69.0	237
060590	<u>C. caretta</u> <sup>1</sup>	AAJ836/AAJ837	94.0	95.9	104.6	90.4	74.3	74.9	254

DATE CAPTURED	SPECIES	TAG NUMBERS	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	WEIGHT (lbs)
Live Removals (cont'd)									
060590	<u>C. caretta</u> <sup>1</sup>	AAJ838/AAJ839	91.2	92.2	96.7	87.0	66.7	68.5	217
060590	<u>C. mydas</u>	PPW601/PPW602	35.3	35.5	36.9	33.0	28.7	29.5	12.3
060690	<u>C. caretta</u>	AAJ840/PPW603	83.0	85.5	90.2	80.7	62.1	64.3	175
060690	<u>C. caretta</u> <sup>1</sup>	AAJ841/PPW604	98.8	99.1	106.4	92.2	72.6	75.8	307
061290	<u>C. caretta</u>	AAJ842/PPW605	58.8	59.7	62.5	60.6	49.3	45.8	65
061290	<u>C. caretta</u>	AAJ843/PPW606	58.8	60.5	65.3	61.8	50.4	44.8	67
061390	<u>C. caretta</u>	AAJ844/PPW607	NM	NM	65.5	64.4	NM	NM	74
061490	<u>C. caretta</u> <sup>1</sup>	AAJ845/PPW608	88.9	91.6	97.2	85.4	71.1	68.3	226
061590	<u>C. caretta</u> <sup>1</sup>	AAJ846/PPW609	88.7	90.3	98.4	89.7	70.5	68.2	226
061890	<u>C. caretta</u> <sup>1</sup>	AAJ847/PPW610	92.5	94.3	98.8	92.0	70.9	72.0	257
061990	<u>C. caretta</u> <sup>1</sup>	AAJ848/PPW611	86.4	87.7	93.5	86.8	69.2	66.3	209
062290	<u>C. caretta</u> <sup>1</sup>	AAJ849/PPW612	87.7	89.2	95.0	88.2	70.2	68.0	219
062590	<u>C. caretta</u> <sup>7</sup>	AAJ791/PPW480	54.7	55.4	61.7	56.3	45.9	42.0	50
062790	<u>C. caretta</u> <sup>8</sup>	AAJ808/PPW498	53.4	54.1	59.9	57.7	46.6	41.9	53
062790	<u>C. caretta</u> <sup>1</sup>	AAJ850/PPW613	85.4	86.9	91.7	85.7	67.6	69.0	194
062790	<u>C. caretta</u> <sup>1</sup>	AAJ851/PPW614	90.3	90.8	96.9	91.2	73.1	70.2	246
062990	<u>C. caretta</u>	PPW615/PPW616	42.8	43.9	45.8	44.5	37.9	34.8	28

<sup>1</sup>Female

<sup>2</sup>Male.

<sup>3</sup>ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 21 MAR 90.

<sup>4</sup>ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 10 MAY 90.



- <sup>5</sup>Female. This turtle was originally tagged (HI-2848) on 20 JUN 79 after nesting on Hutchinson Island, 7.5 km south of the intake. Tag HI-2848 fell off during capture on 17 MAY 90.
- <sup>6</sup>Tag Return. This turtle was initially captured and tagged by University of Central Florida researchers. Recapture data was forwarded to UCF and initial capture data requested on 7 JUN 90.
- <sup>7</sup>ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 21 MAR 90.
- <sup>8</sup>ABI recapture. This turtle was removed from the intake canal, tagged and released 1.0 km south of the intake on 2 MAY 90.

NOTE: Tags AAJ803 and PPW493 were applied to a stranded turtle from a non-FPL site. Tags PPW504 and AAJ823 malfunctioned and were not applied to turtles.

SMCL = straight minimum carapace length  
SSCL = straight standard carapace length  
CSCL = curved standard carapace length  
CMCW = curved maximum carapace width  
SMCW = straight maximum carapace width  
SMPL = straight midline plastron length

NM = Not measured

