Rescue Report REC1220

Updated 3/4/13 DS

Entrapment Human (Cold Stress

DEATH 01/21/1

GENERAL:

Date of Rescue: 02 December 2012 Date of Initial :16 July 2012 Filed by: J. Ludema

Rescue ID#: REC1220 Facility ID: SWFTm1216b FWC Case: 7839, 7594,12942

Sex: Male Length: 207 cm "Pipsqueak"

PIT Tag Present: Und. PIT Tag Applied: No #R L

LOCATION:

State: FL City: Merritt Island County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.60792° N Longitude (Decimal Degrees): -80.73062° W

Locality Description: SW corner of the mosquito impoundment T24D at Peacock's Pocket, on the N side of Peacock's Pocket Road, approximately 105 m SW of parking area

Method of Capture: Net set off of land using kayaks.

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☒ Entrapment ☐ Orphan ☒ Cold Stress

☐ Red Tide ☐ Other: (Specify):

Entrapment-Human Related

Describe: Trapped on the inside of the Peacock's Pocket mosquito impoundment.

VISUAL RECORD

	Photo - Slides	Photo - Digital	Video
Animal Entangled	☐	☐	☐
Injury	☐	☐	☐
Gear Removal Process	☐	☐	☐
Gear Alone	☐	☐	☐
Scars	☐	☐	☐
Rescue Situation	☐	☐	☐

HISTORY

Date	Narrative
13 July 2012	At 1030 hrs, FWC-biologist Christine N. Rush (CNR) received a call on her phone from Merritt Island National Wildlife Refuge Biologist (MINWR)-Stan Howarter (SH) regarding two trapped manatees in the T24D impoundment at Peacock's Pocket in Merritt Island. SH advised that the impoundment was 2,400 acres with approximately ten points of entry, but two places to exit. CNR requested photographs, but a camera was not available at the time. SH informed CNR that they would keep an eye out for the manatees, but no one currently had visual contact with them.
14 July 2012	CNR and FWC-biologist Jaclyn E. Ludema (JEL) searched Peacock's Pocket along the dike road, but were unable to locate the manatees. Upon arriving at the road, however, a fisherman informed CNR and JEL that he had seen the two manatees together 15 minutes prior. He also mentioned that he had seen them the weekend before as well and would call if he spotted them again.
16 July 2012	At 1055 hrs, JEL responded to a text alert from FWC NE Dispatch-Orlando regarding the trapped manatees. FWC case number 7839 was assigned. The complainant, MINWR- biologist Steve Truwell (ST; 321-302-9227), had located the manatees and informed other MINWR biologists of the sighting. JEL attempted to make contact with ST, but was unsuccessful.
17 July 2012	At 1640 hrs, FWC-biologist Ann C. Spellman (ACS) searched along the dike road, while other ECFL staff was picking up manatees from Miami Seaquarium for release later that afternoon. ACS was unable to locate the manatees.
21 July 2012	JEL searched for the trapped manatees, but was unable to locate them.
23 July 2012	SH contacted CNR for an update regarding the trapped manatees. CNR informed SH that no ECFL staff had been able to locate the manatees during previous search attempts. SH informed CNR that the culvert was left open over the weekend, but they had to close it again. SH promised that he, along with other MINWR staff, would search the area frequently and immediately report the manatees if they were still trapped.
04 November 2012	At 1354 hrs, JEL responded to a text alert from FWC NE Dispatch-Orlando regarding the trapped manatees. FWC case number 12942 was assigned. The complainant, Hannah Wilson (828-538-1261), informed JEL that she found one manatee on the wrong side of the dike road at N28 36.5050, W80 43.9422. The complainant continued hiking and found another manatee about a half hour later at N28 36.181, W80 44.884. The complainant was not able to get photographs of the manatees. JEL informed ACS about the manatee sightings. ACS contacted FWC Helicopter Pilot- -Lt. G. Waldeck to request a fly over. Lt. Waldeck arranged to fly with ECFL staff on 08 November, weather

	permitting.
08 November 2012	At 1000 hrs, CNR and JEL met Ofc. Waldeck and searched the area extensively. Lt. Waldeck and CNR briefly saw what could have been a diving manatee, but were unable to locate it again. Visibility was very poor due to turbidity, even from the sky. Once on the ground, CNR and JEL drove the dike roads, but were unable to locate any manatees.
27 November 2012	ACS received a phone call from a previous FWC-Volunteer, Jesse (321-506-4180) regarding a sighting of the trapped manatees from a friend of his that was fishing off East Gator Road over the weekend. Because of carcass load, ECFL staff was unable to respond.
29 November 2012	CNR, JEL and FWC-Volunteer Jason P. Herr (JPH) searched the impoundment and located three manatees surface resting and feeding on cattails just south of Brock Creek. Photographs, temperature, and salinity were taken and their behavior was assessed. All three appeared to have cold stress and the smallest manatee was beginning to show signs of buoyancy issues by undulating at the surface. The environment for a rescue was not ideal since there were mangroves lining the dike road with a seven foot drop straight down to the water, the area was not accessible by rescue boat, there was a mucky bottom, and many large alligators were in the area. CNR contacted FWC-Andy J. Garrett (AJG) to inform him of the situation and that heavy lifting equipment would most likely be required for extraction. AJG recommended contacting SeaWorld to see if they could accept the manatees and if they were available to assist with the rescues. CNR contacted SeaWorld (SWF)- Bob Wagoner (BW). BW informed CNR that SWF was unable to assist with a rescue until at least later the following week. CNR informed BW and AJG that ECFL staff would continue to monitor the manatees since the weather had been cold. CNR, JEL, and JPH took temperature and salinity along the rest of the road and located a few warm water pockets. The three manatees were in the warmest pocket, which was 21.5°C. CNR contacted ACS to inform her of their findings.
30 November 2012	CNR and JEL searched the entire dike road and did not locate any of the manatees.
01 December 2012	JEL and JPH found all three manatees, but they were separated throughout the impoundment. The third manatee was found at the south-east corner of the impoundment, which was the only area with a gradual slope into the water. JEL contacted CNR at 1400 hrs to see if a rescue crew could be organized. CNR was transporting a carcass and was not available. JEL tried to call ACS, but she could not be reached. JEL then called FWC volunteers to assemble a rescue team for the following day.
02 December 2012	At 0730 hrs, JEL and FWC volunteer Jenn Curren (JC) drove to the dike roads. Two local fishermen were returning from a hike down the dike road and JEL

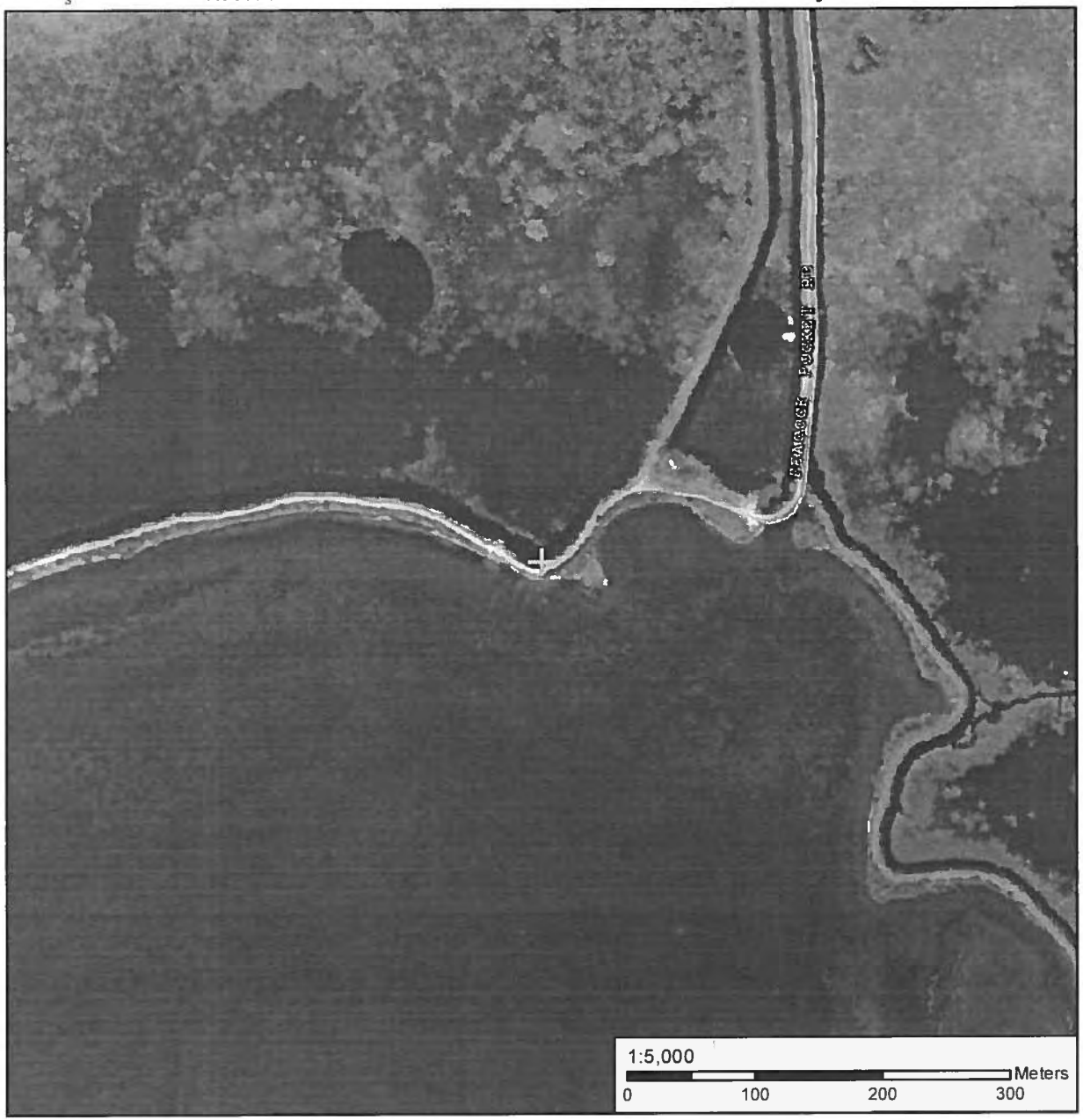
asked the fisherman if they had seen any manatees in the impoundment. They stated that a small manatee was swimming at the south-east corner of the impoundment. JEL and JC located the manatee and maintained visual contact as it swam back and forth in the same area. JEL contacted CNR, ACS, JPH and FWC-volunteer Danny J. Rush (DJR) and told them to meet her at the location of the manatee for a rescue. JEL contacted SWF-Steve Lehr (SL) and informed him that a rescue attempt would be made shortly. ACS rented a U-haul van and drove to the rescue location. At 1330 hrs, ACS and JEL deployed a large net across the channel. The manatee spooked and swam into the net. From the dike road, CNR and JPH pulled the net shut around the manatee and the rescue team pulled the net into land. The manatee was moved into the small stretcher and walked over to the area of the dike road that gradually declined into the water. Local fisherman assisted the rescue team in pulling the manatee onto shore. The manatee was loaded into the U-haul van at 1505 hrs and transported to Sea World, arriving at 1645 hrs.

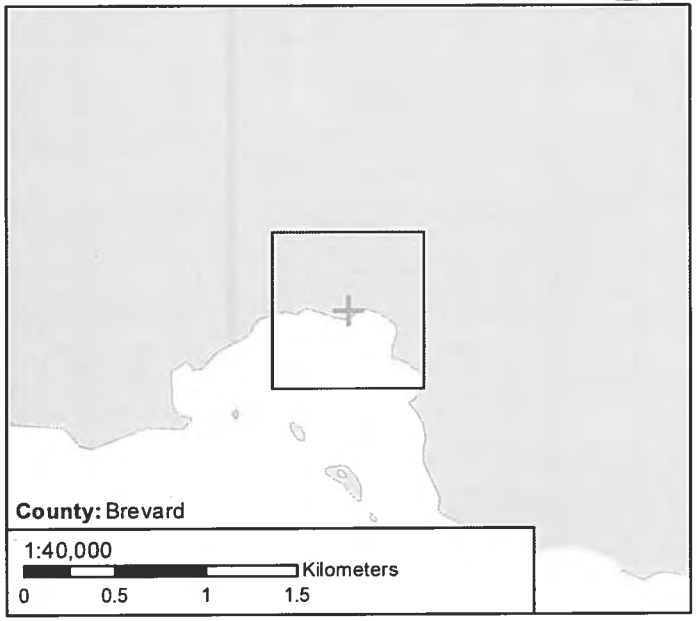
Participants:
FWC EC: A. Spellman, C. Rush, J. Ludema
FWC LE: Ofc. G. Waldeck
FWC volunteers: J. Curren, D. Rush, J. Herr

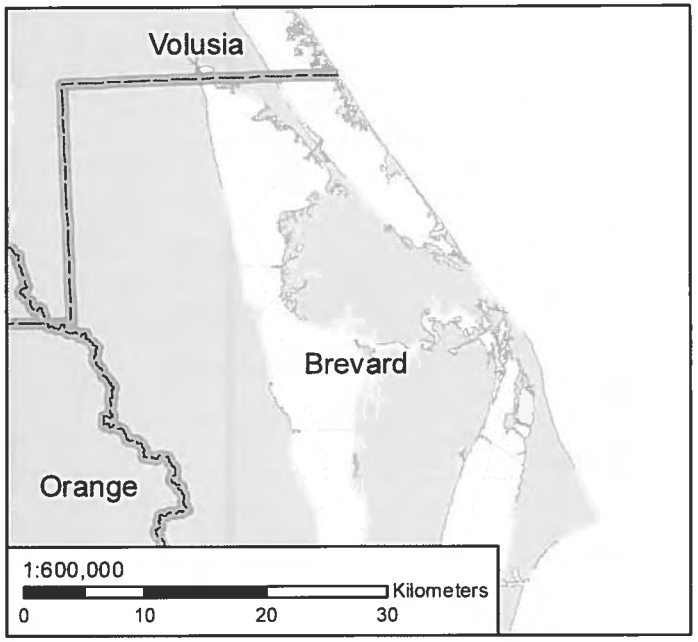
REC1220
Photographs: GoPRO Beta: 043 through 977

Verified Response Location of Manatee Rescue REC1220

Rescue Date: 12/2/2012 **Facility ID:** SWFTm1216b Map Created 10/29/2014







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Check Road Runner Email

Search... Subn

Dec 4 9:12:29 AM Temp: 62°

NEWS | WEATHER | TRAFFIC | SPORTS | ON THE TOWN | COMMUNITY | POLITICS | BUSINESS | LOTTO | VIDEO

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SWFTM 1216B
REC1220

Manatee rescued, brought to SeaWorld

Last Updated: Sunday, December 02, 2012

0

ORLANDO -- SeaWorld is caring for a manatee rescued from Canaveral National Seashore.

Florida Fish and Wildlife rescued the manatee Sunday afternoon. The manatee, believed to be about one to two years old, had signs of cold stress.

SeaWorld put the manatee into its warm-water rehabilitation pool and gave it water to combat dehydration.

SeaWorld will do a more detailed check-up Monday.

Florida Fish and Wildlife has a hotline for people who find injured marine animals. That number is 1-888-404-3922.

VIDEO STORIES

- SeaWorld cares for sick manatee

LATEST NEWS: SEAWORLD

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: SWFTM2166b | Temporary ID: DEC1220 | Time Net Set: N/A

Name: PIPSQUEAK | Date: 18 JULY 2013 | Time Captured(Onboard): N/A

ID of its Calf / Mom: N/A | Sex: (M) / F | Time On Beach: 1614h

Location: Eddy Creek | Latitude: _____ N | Time Released: _____

Event: ____Capture ____Rescue ____Pre-release Assess. ✓ Release ____Post-release Assess. | Longitude: _____ W | Data Recorder: A. SPELLMAN

Air Temp = ___ C F | Water Temp = ___ C F | Wind: ___ mph | Cloud Cover: S PC MC (O) R

MORPHOMETRICS	Weight: (lb or kg) 625	Manatee + stretcher NA	Stretcher weight NA
Lengths	Total Length (curvilinear) (cm)	253	
	Total Length (straight)	234	
S2Ax = 32	Snout to Peduncle	163	
	Snout to Anus	145	
	Snout to Umbilicus	90	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 99 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	134	
	Girth at Umbilicus: (actual) or ½	178	
	Girth at Axilla: (actual) or ½	148	

ULTRASOUND N/A — Reader Name:

Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	A. SPELLMAN
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating? Male	Y / N N/A
SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
N/A	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None	**Data Sheets?** Y N
N/A	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID SWFM12108 Manatee Name: PIPSQUEAK Date: 18 JULY 2013

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
NA	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Y / N	PIT tagged at this capture?	Y / N
	PIT tagged by: SWF			
	Right #	00 - 0144 D - A F 24		
	Left #	00 - 034 C - I 9 C B		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
NA	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	Diane Schuntz / AN SPELLMAN		
	Exposures:	FWC025_2013 07 18: 7474-7493		
SKETCHES	Sketched by:	A Spellman		

Comments

photos sent to USGS,

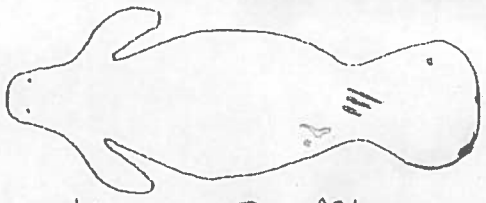
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 18 JULY 2013 Location: EDDY CREEK, CAN. NAT'L SEASHORE

Observer Code(s): DSS, SPELLMAN Sighting Times: _____ - _____

RELEASE



Field ID: 1 Size: (CC) 234cm SU AA

Calf: WC WC? Why: _____

Sex: (M) F How determined: V NC

Exposures: FMC025-2013-07-18: 7474-7493

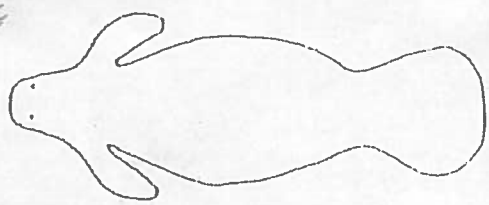
TL = 234cm, WT = 625#

U 00-074E-F1CB P: 00-074D-AF24

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "PIPSQUEAK"

RCC1220/SWFTM12168



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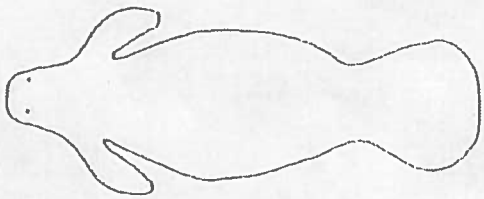

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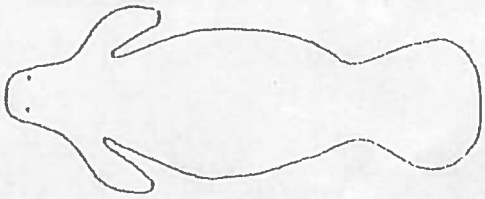

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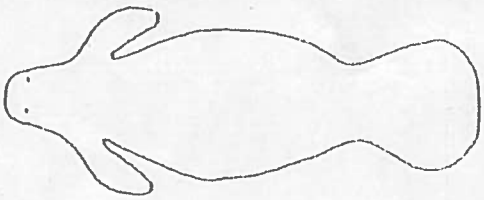

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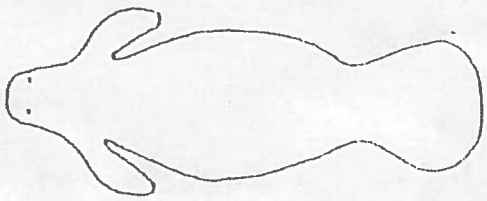

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Calf: WC WC? Why: _____

Sex: M F How determined: V NC

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____

Other Comments: _____

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MEC14008**
Date of Report: 2014-Jan-21
Filed By: FWC MMPL

FWC Case # 0805 **FWC Region:** NE

Sex: Male **Length:** 233 **cm** **Weight:** Not Taken **kg**

DATE REPORTED: 2014-Jan-21 **By:** Citizen to FWC NE Dispatch

DATE COLLECTED: 2014-Jan-21 **By:** FWC-ACS,CNR

DATE NECROPSIED: 2014-Jan-22 **By:** MMPL-MdW,BLB,ARH,AJG,ALP,LNS,CRW

LOCATION: **State:** FL **Latitude:** 28.16458 **N**
County: Brevard **Longitude:** -80.60302 **W**
Waterway: Grand Canal
Locality description: Satellite Beach, grounded at the N end of the drainage ditch behind 601 DeSoto Lane, "Desoto Street canal".

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Undetermined: Other

EXPLAIN: Congested mesenteries, SI serosa, colon wall, parietal pleura, hemidiaphragms, urinary bladder-, nasal pharyngeal-, tracheal mucosa, heart vessels, lung; Watery GI contents; SI-, cecum-, colon mucosa sloughing in sheets; Dilated heart vessels; Macroalgae in Gi tract; Purple-stained stomach mucosa; Black specks parietal pleura. Necropsy findings fit the case description of the ongoing east coast UME. Cause of this event was still under investigation at the time this report was finalized.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology. ELISA in foil. -80 samples (vitreum, GI contents (stomach, distal SI, cecum, proximal colon, distal colon), GI wall (distal SI, cecum, proximal colon), liver, brain, T-septal, caudal mesenteric lymph node, lung, kidney). Muscle, spleen for Tsung; Stomach contents, feces for Graham Worthy. FWRI Micro samples (distal SI, proximal colon, cecum swab, heart swab, T-septal, caudal mesenteric lymph node).

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report.

REMARKS:

PIT tag scan positive (Left: 00-074E-F1CB; Right: 00-074D-AF24). Monofilament in duodenum, cecum, colon. Plastic in duodenum, colon. Bleached epidermis; Depleted fats; Serous fats; Skin lesions; Known as "Pipsqueak", REC1220, SWFTm1216b. Rescued for entrapement and mild cold stress on 02 Dec 2012 and released on 18 July 2013.

Page 1&2	24 sept 2015
Necropsy Report	24 sept 2015
Lat/Long	24 sept 2015

Resc / Rel
12/18/12 7/18/13

Updated 4/11/13 JS

Entrapment Human Structure (Cold Stress)

GENERAL:

Date of Rescue: 18 December 2012 Date of Initial: 16 July 2012 Filed by: C. Rush

Rescue ID#: REC1221 Facility ID: SWFTm1218b FWC Case: 7839, 7594,12942

Sex: Female Length: 222 cm Estimated: No

"Braille"

PIT Tag Present: No PIT Tag Applied: #R L

LOCATION:

State: FL City: Merritt Island County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.6026° N Longitude (Decimal Degrees): -80.74309° W

Locality Description: mosquito impoundment T24D at Peacock's Pocket, approximately 5.4 km SE of the FWC Law Enforcement Station at 1 A. Max Brewer Memorial Parkway, on the north side of the dike road

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

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Entrapment-Human Related

Describe: Trapped on the inside of the Peacock's Pocket mosquito impoundment T24D.

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Injury	☐	☐	☐
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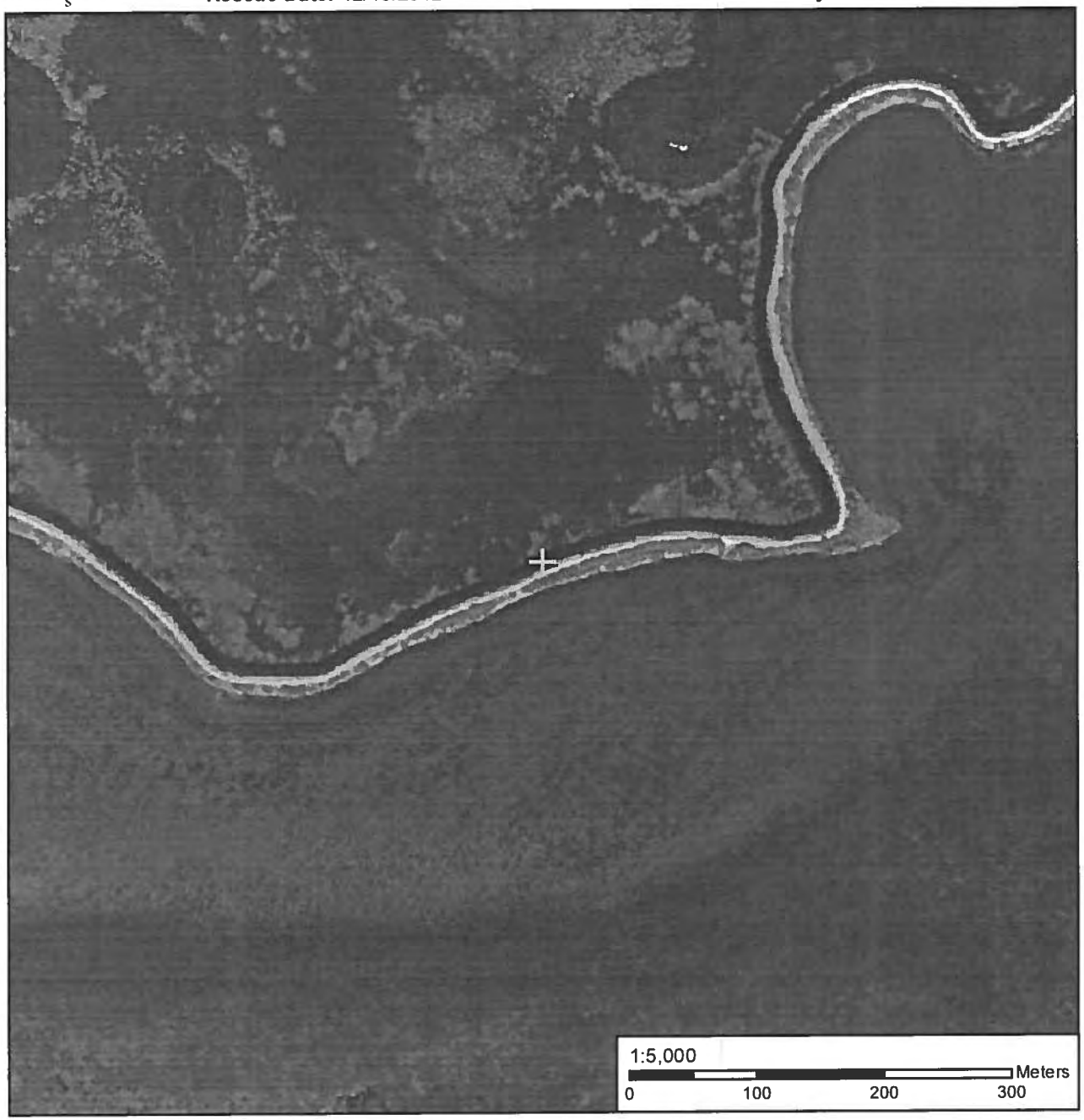
08 November 2012	At 1000 hrs, CNR and JEL met Ofc. Waldeck and searched the area extensively. Lt. Waldeck and CNR briefly saw what could have been a diving manatee, but were unable to locate it again. Visibility was very poor due to turbidity, even from the sky. Once on the ground, CNR and JEL drove the dike roads, but were unable to locate any manatees.
27 November 2012	ACS received a phone call from a previous FWC-Volunteer, Jesse (321-506-4180) regarding a sighting of the trapped manatees from a friend of his that was fishing off East Gator Road over the weekend. Because of carcass load, ECFL staff was unable to respond.
29 November 2012	CNR, JEL and FWC-Volunteer Jason P. Herr (JPH) searched the impoundment and located three manatees surface resting and feeding on cattails just south of Brock Creek. Photographs, temperature, and salinity were taken and their behavior was assessed. All three appeared to have cold stress and the smallest manatee was beginning to show signs of buoyancy issues by undulating at the surface. The environment for a rescue was not ideal since there were mangroves lining the dike road with a seven foot drop straight down to the water, the area was not accessible by rescue boat, there was a mucky bottom, and many large alligators were in the area. CNR contacted FWC-Andy J. Garrett (AJG) to inform him of the situation and that heavy lifting equipment would most likely be required for extraction. AJG recommended contacting SeaWorld to see if they could accept the manatees and if they were available to assist with the rescues. CNR contacted SeaWorld (SWF)-Bob Wagoner (BW). BW informed CNR that SWF was unable to assist with a rescue until at least later the following week. CNR informed BW and AJG that ECFL staff would continue to monitor the manatees since the weather had been cold. CNR, JEL, and JPH took temperature and salinity along the rest of the road and located a few warm water pockets. The three manatees were in the warmest pocket, which was 21.5°C. CNR contacted ACS to inform her of their findings.
30 November 2012	CNR and JEL searched the entire dike road and did not locate any of the manatees.
01 December 2012	JEL and JPH found all three manatees, but they were separated throughout the impoundment. The third manatee was found at the south-east corner of the impoundment, which was the only area with a gradual slope into the water. JEL contacted CNR at 1400 hrs to see if a rescue crew could be organized. CNR was transporting a carcass and was not available. JEL tried to call ACS, but she could not be reached. JEL then called FWC volunteers to assemble a rescue team for the following day.
02 December 2012	The smallest of the three manatees was rescued using ECFL staff and volunteers (REC1220). The manatee was transported to SeaWorld for

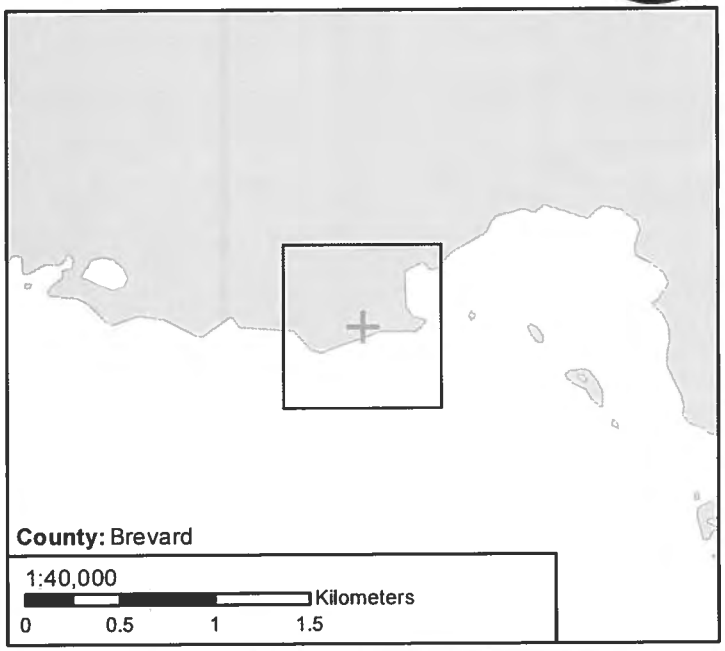
	rehabilitation in a rented UHaul van.
11 December 2012	CNR, JEL and ACS located one of the remaining two manatees. They followed the manatee and assessed its behavior. ACS photographed the manatee, but it was too late in the day to initiate a rescue.
13 December 2012	CNR and JPH searched the impoundment along the dike road starting at East Gator Road, while JEL and ACS searched at Peacock's Pocket. The manatees were not located.
17 December 2012	ACS and JEL searched along the dike road and located the same manatee as seen on December 11th. ACS set up a rescue for the following day with the Cape Canaveral National Sea Shore, SeaWorld, and FWC staff and volunteers.
18 December 2012	CNR drove the dike road and eventually located both remaining manatees. CNR contacted ACS to inform her that she had located the manatees and that they were swimming towards Gator Creek Rd. While ACS assembled a rescue crew, CNR kept track of the manatees until they veered off behind an island and she lost sight of them. The rest of the rescue crew arrived and split up to search for the manatees. At 1430 hrs, the manatees were relocated. The SeaWorld crew deployed one net from land and FWC deployed a second net further down the canal with both manatees in between the two nets. Each net had a manatee hit at the same time. REC1221 was captured and put into a stretcher. The manatee was then lifted with a front loader onto the dike road and loaded into the SeaWorld van. The other manatee managed to get out of the net and swim off. The rescue crew members searched extensively for the remaining manatee but were unable to locate it. SeaWorld staff transported REC1221 back to Sea World.

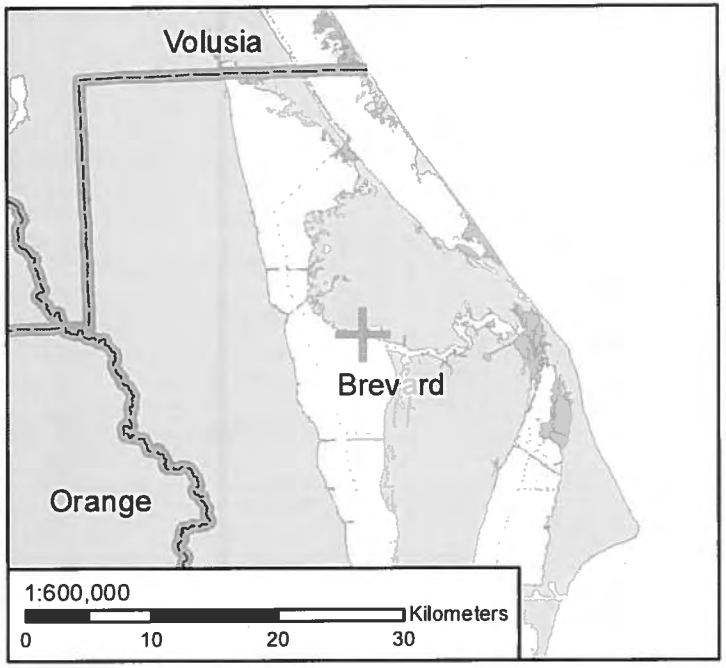
Participants:
FWC EC: C. Rush, J. Ludema, A. Spellman
FWC Volunteers: A. Preston, M. Bretz, D. Swor
SeaWorld Animal Care Staff
REC1221
Photographs:

Verified Response Location of Manatee Rescue REC1221

Rescue Date: 12/18/2012 **Facility ID:** SWFTm1218b Map Created 11/5/2014







Locality Description:

Latitude: 28.6026°N **Longitude:** -80.74309°W

mosquito impoundment T24D at Peacock's Pocket, approximately 5.4 km SE of the FWC Law Enforcement Station at 1 A. Max Brewer Memorial Parkway, on the north side of the dike road

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Temporary ID: RCR 1 Time Net Set: _____

Manatee ID: 18B Date: 20 JUNE 20 Time Captured(Onboard): _____

Name: Bra Sex: M / (F) Time On Beach: _____

ID of its Calf / Mom: N/A Latitude: N N Time Released: _____

Location: SWF Longitude: _____ W Data Recorder: A SPE

Event: ____Capture ____Rescue ✓Pre-release Assess. ____Release ____Post-release Assess.

Air Temp = ___ C F Water Temp = ___ C F Wind: 0 mph S Cloud Cover: (S) PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 640	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)		
	Total Length (straight)		
t 38cm	Snout to Peduncle		
	Snout to Anus	152	
measurements J.Udone	Snout to Umbilicus	82	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½		
	Girth at Umbilicus: actual or ½		
	Girth at Axilla: actual or ½	3	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	A.SPELLMAN

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)

SAMPLES		
NA	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING		
	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?**	Y N
NA	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID SWFTM1218 Manatee Name: Braille Date: 26 JUNE 13

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
NA	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
YES	RE: SWF 1			L / R
	2			L / R
	3			L / R
	Drawn by: S.			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Y / N	PIT tagged at this capture?	Y / N
	PIT tagged by: V			
	Right #	00074FDFE0		Entered 8/2/13 PIT
	Left #	00074FD685		
FLAG NA	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
NA	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	CHRISTINE N. RUSH		
	Exposures:	FWC025_2013-06-26_7323-7328		
SKETCHES	Sketched by:	A) N C. SPELLMAN		

Comments Numerous small spots ~6' 30 mark

CS scars?

SC 1 2 small notche

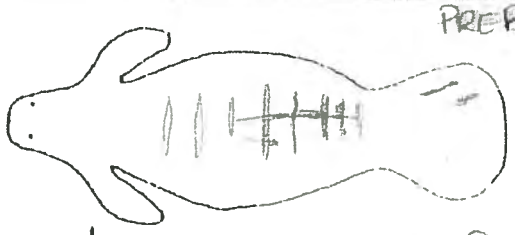
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave S E, St Petersburg FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 26 JUNE 2013 **Location:** SWF

Observer Code(s): SPELLMAN, CNR, JGL **Sighting Times:** _____ - _____

PRE RELEASE HEALTH ASSESSMENTS



Field ID: 1 **Size:** CC - _____ (SU) AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7261-7279

TL= 263 cm WT= 880# REC 1216

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "LACES" SWFTM1214b

PIT (L): 00-074E-C654 / (R): 00-0740-A04D

SCHEDULED FOR RELEASE

Field ID: 4 **Size:** CC - _____ (SU) AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7299-7318

TL= 254 WT= 775#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "NITTY" SWFTM1219/REC1222

PIT (L) 00-074F FE72 (R) 00-0729-1516

SCHEDULED FOR RELEASE

↳ Rel. 7/18/13

Field ID: 2 **Size:** (CC) _____ SU AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7280-7291

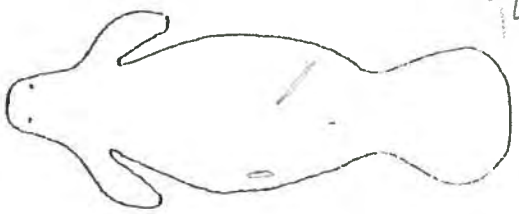
TL= NT WT= 585#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: RTC1309 / SWFTM1313

NOT PIT TAGGED YET

NOT SCHEDULED FOR RELEASE



Field ID: 5 **Size:** (CC) 216 SU AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7314-7322

TL=216 WT= 400#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "Asaka" SWFTM1307B/REC1303

PIT (L) 00-06E36D23 (R) 00-074F-BB1A

SCHEDULED FOR RELEASE ⇒ Rel 7/18

Field ID: 3 **Size:** (CC) 184cm SU AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7292-7308

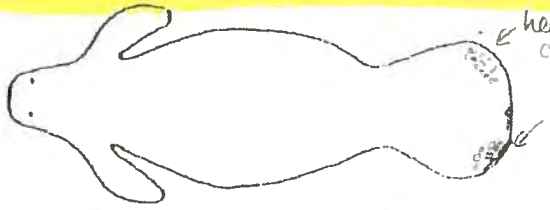
TL= 169 cm WT= 240#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: ABIGAIL SWFTM1308/REC1304

NO PIT TAGS YET HEALING CS lesions

NO SCHEDULED FOR RELEASE



Field ID: 6 **Size:** (CC) - 232cm SU AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7323-7329

TL= 232 WT; 640#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "BRAILLE" SWFTM1218/REC1221

PIT (L) 00-074F-0685 (R) 00-074F-DFE0

SCHEDULED FOR RELEASE

SUCCULUS: SPELLMAN

⇒ Rel. 7/18/13

Other Comments: PHOTOGRAPHER: CNR

SWFTM1218B
REC1221

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SeaWorld Orlando rescues female manatee

Story Created: Dec 19, 2012 at 11:00 PM America/New_York

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ORLANDO, Fla. - Yesterday, the SeaWorld Orlando Animal Rescue Team traveled to Cape Canaveral, Fla., to rescue a female manatee.

The manatee was rescued from Merritt Island National Refuge in Brevard County, Fla., the same spot where a male manatee was rescued last weekend. There is still one more manatee out there, but it hasn't been spotted and will be rescued once it is seen.

Estimated to be approximately 7 feet in length and weighing around 540 pounds, the female manatee was rescued for several reasons -- she was trapped in an area of the waterway where she couldn't navigate her way out and she was exhibiting symptoms of cold stress.

Upon arrival at SeaWorld Orlando late yesterday, animal experts took blood samples and assessed her condition further. For now, the manatee is in guarded condition and will be monitored closely during the next few days.

In collaboration with the government and other members of accredited stranding networks, SeaWorld Parks & Entertainment operates one of the world's most respected programs to rescue ill and injured marine animals, with the goal to rehabilitate and return to the ocean.

SeaWorld animal experts have helped more than 22,000 animals in need - ill, injured, orphaned and abandoned - for more than four decades. This year alone, SeaWorld Orlando has rescued 16 and returned 10 manatees back to their natural habitat.

If you see injured marine animal, you can help by calling the FWC hotline at 1(888) 404-3922 or by dialing *FWC on a cellular device.

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SeaWorld team returns four manatees to lagoon

Rehabilitated mammals each weighed 400-plus lbs.

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A A

Manatee release easier than rescue: John Stiner of the National Park Service describes the effort to rescue two manatees in December. By Scott Gunnerson. Secondary footage by Tim Shortt. Posted July 18, 2013.

Written by
Scott Gunnerson
FLORIDA TODAY

FILED UNDER

News
Local News
Indian River Lagoon
Kennedy Space Center

Pipsqueak the manatee had plenty of company when she returned Thursday to the Indian River Lagoon after months of rehabilitation in Orlando.

SeaWorld Orlando's animal rescue team successfully released four female manatees, each weighing more than 400 pounds, at the south end of Mosquito Lagoon near Kennedy Space Center.

"I think four is kind of like the most we've done at one time," said Pedro Ramos-Navarrete, supervisor of animal care at SeaWorld Orlando. "Doing this release has actually been really exciting, it is a really good feeling."

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More than 40 people were needed to lift the four manatees on stretchers and carry them into the water as nearly 100 people watched and cheered when the animals slipped into the water.

Ramos-Navarrete, a 23-year veteran of animal care at SeaWorld, said that previously the most manatees they had released at once was three, but the logistics for four were not that difficult.

"It requires a lot more people and it requires more vehicles," Ramos-Navarrete said. "It's not that bad as requiring more logistics, but it does require a little bit more."

Two trucks carried two manatees each as well as SeaWorld personnel from Orlando to Canaveral National Seashore. It took eight people to lift each manatee on a stretcher from the truck to the shoreline.

Pipsqueak was the first one out of a truck and was measured on shore one last time before being released. Chips were already implanted into each manatee for identification if they end up in trouble again.

Three of the manatees were rescued in December after becoming trapped in water-filled impoundments meant to control mosquitoes.

Pipsqueak and Nitty were rescued by the Florida Fish and Wildlife and Braille by SeaWorld Orlando. They were treated for mild cold stress.

The fourth manatee, Asaka, was rescued by Florida Fish and Wildlife in March when she was displaying problems with buoyancy. The manatee also was treated for propeller wounds.

John Stiner, a resource management specialist for Canaveral National Seashore, helped rescue Pipsqueak and Nitty after days of trying to locate the duo.

"It took a couple of days to pinpoint them because they kept moving," Stiner said. "When we were able to get the nets in the water to trap them, we had to wade in water that was chest deep and we had mud up to our knees."

Stiner was glad to see the manatees return to the national park.

"This is very gratifying that they are healthy now and we are able to let them go, especially with the difficulty in capturing them," Stiner said.

Ramos-Navarrete, who led the rehab effort at SeaWorld, had mixed emotions as the four now-healthy manatees frolicked about 30 yards offshore.

"It's kind of a bittersweet thing," Ramos-Navarrete said. "You've

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gotten this animal at death's doorstep and you actually got them healthy again."

But he hoped the farewell was forever.

"If we see them again, it means they are in trouble again. So we really don't want to see them again."

Contact Gunnerson at twitter.com/scottgunnerson, sgunnerson@floridatoday.com, 321-360-1016.

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SeaWorld Orlando returns 4 manatees to wild

Last Updated: Friday, July 19, 2013, 7:26 AM

BREVARD COUNTY – SeaWorld Orlando returned four manatees to their natural environment Thursday morning.

The manatees have been rehabilitating at SeaWorld Orlando for several months.

SeaWorld's Animal Rescue Team released them at Eddy Creek in Brevard County.

The female mantees who made their way back to their natural environment are:

Braille

Braille, who weighs 640 pounds, was rescued by SeaWorld Orlando in December after getting caught in the the mosquito impoundment in the Merritt Island National Wildlife Refuge

VIDEO STORIES

- SeaWorld Orlando returns 4 manatees to wild

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SeaWorld Orlando's Animal Rescue Team has been rehabilitating her as she suffered from mild cold stress.

Pipsqueak
Don't let her name fool you! This sub-adult female weighs 575 pounds. After becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge last December, the Florida Fish and Wildlife Conservation Commission (FWC) rescued and transported her to SeaWorld Orlando. She has been receiving care at our park for mild cold stress since her rescue.

Nitty
Nitty, who was also rescued by the FWC in December after becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge, has been receiving care for mild cold stress during her time at SeaWorld Orlando. Nitty is the largest of the four animals and weighs 775 pounds.

Asaka
Asaka was brought to SeaWorld Orlando in March after being rescued by the FWC from the Indian River in Merritt Island, Fla. Asaka was suffering from natural buoyancy issues and had been floating very high in the water. Her health was evaluated by SeaWorld's animal experts upon arrival at the park, who found no visual signs of propeller or skeg marks. Asaka worked out her buoyancy issues during her time at SeaWorld.

LATEST NEWS: SEAWORLD ORLANDO

- Georgia sea turtle headed to SeaWorld Orlando
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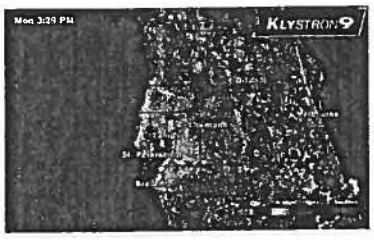


BAY NEWS 9 PARTNERS

Resc / Rel
7/18/13

Updated 4/11/13 SJS

Entrapment
Human Structure
(Cold Stress)

GENERAL:

Date of Rescue: 20 December 2012 Date of Initial : 16 July 2012 Filed by: A. Spellman

Rescue ID#: REC1222 Facility ID: SWFTm1219b FWC Case: 7839, 7594,12942

Sex: Female Length: 245cm Estimated: No

"Nitty"

PIT Tag Present: No PIT Tag Applied: #R L

LOCATION:

State: FL City: Merritt Island County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.60471° N Longitude (Decimal Degrees): -80.75911° W

Locality Description: mosquito impoundment T24D at Peacock's Pocket, approximately 3.87 km SE of the FWC Law Enforcement Station at 1 A. Max Brewer Memorial Parkway, on the north side of the dike road

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☒ Entrapment ☐ Orphan ☒ Cold Stress

☐ Red Tide ☐ Other: (Specify):

Entrapment-Human Related

Describe: Trapped on the inside of the Peacock's Pocket mosquito impoundment T24D.

VISUAL RECORD

	Photo - Slides	Photo - Digital	Video
Animal Entangled	☐	☐	☐
Injury	☐	☒	☐
Gear Removal Process	☐	☐	☐
Gear Alone	☐	☐	☐
Scars	☐	☒	☐
Rescue Situation	☐	☒	☐

HISTORY

Date	Narrative
13 July 2012	At 1030 hrs, FWC-biologist Christine N. Rush (CNR) received a call on her phone from Merritt Island National Wildlife Refuge Biologist (MINWR)-Stan Howarter (SH) regarding two trapped manatees in the T24D impoundment at Peacock's Pocket in Merritt Island. SH advised that the impoundment was 2,400 acres with approximately ten points of entry, but two places to exit. CNR requested photographs, but a camera was not available at the time. SH informed CNR that they would keep an eye out for the manatees, but no one currently had visual contact with them.
14 July 2012	CNR and FWC-biologist Jaclyn E. Ludema (JEL) searched Peacock's Pocket along the dike road, but were unable to locate the manatees. Upon arriving at the road, however, a fisherman informed CNR and JEL that he had seen the two manatees together 15 minutes prior. He also mentioned that he had seen them the weekend before as well and would call if he spotted them again.
16 July 2012	At 1055 hrs, JEL responded to a text alert from FWC NE Dispatch-Orlando regarding the trapped manatees. FWC case number 7839 was assigned. The complainant, MINWR- biologist Steve Truwell (ST; 321-302-9227), had located the manatees and informed other MINWR biologists of the sighting. JEL attempted to make contact with ST, but was unsuccessful.
17 July 2012	At 1640 hrs, FWC-biologist Ann C. Spellman (ACS) searched along the dike road, while other ECFL staff was picking up manatees from Miami Seaquarium for release later that afternoon. ACS was unable to locate the manatees.
21 July 2012	JEL searched for the trapped manatees, but was unable to locate them.
23 July 2012	SH contacted CNR for an update regarding the trapped manatees. CNR informed SH that no ECFL staff had been able to locate the manatees during previous search attempts. SH informed CNR that the culvert was left open over the weekend, but they had to close it again. SH promised that he, along with other MINWR staff, would search the area frequently and immediately report the manatees if they were still trapped.
04 November 2012	At 1354 hrs, JEL responded to a text alert from FWC NE Dispatch-Orlando regarding the trapped manatees. FWC case number 12942 was assigned. The complainant, Hannah Wilson (828-538-1261), informed JEL that she found one manatee on the wrong side of the dike road at N28 36.5050, W80 43.9422. The complainant continued hiking and found another manatee about a half hour later at N28 36.181, W80 44.884. The complainant was not able to get photographs of the manatees. JEL informed ACS about the manatee sightings. ACS contacted FWC Helicopter Pilot- -Lt. G. Waldeck to request a fly over. Lt. Waldeck arranged to fly with ECFL staff on 08 November, weather permitting.

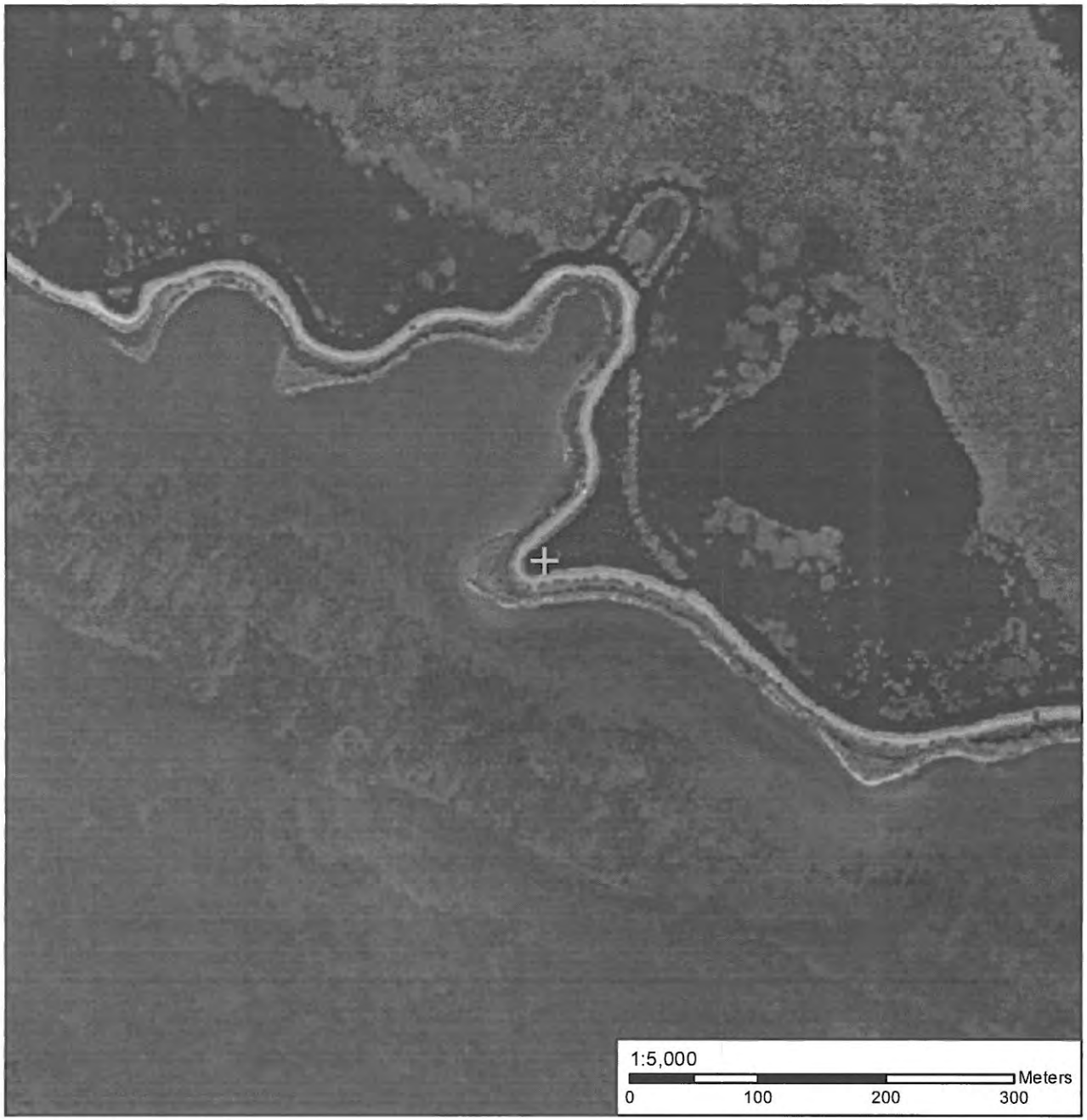
08 November 2012	At 1000 hrs, CNR and JEL met Ofc. Waldeck and searched the area extensively. Lt. Waldeck and CNR briefly saw what could have been a diving manatee, but were unable to locate it again. Visibility was very poor due to turbidity, even from the sky. Once on the ground, CNR and JEL drove the dike roads, but were unable to locate any manatees.
27 November 2012	ACS received a phone call from a previous FWC-Volunteer, Jesse (321-506-4180) regarding a sighting of the trapped manatees from a friend of his that was fishing off East Gator Road over the weekend. Because of carcass load, ECFL staff was unable to respond.
29 November 2012	CNR, JEL and FWC-Volunteer Jason P. Herr (JPH) searched the impoundment and located three manatees surface resting and feeding on cattails just south of Brock Creek. Photographs, temperature, and salinity were taken and their behavior was assessed. All three appeared to have cold stress and the smallest manatee was beginning to show signs of buoyancy issues by undulating at the surface. The environment for a rescue was not ideal since there were mangroves lining the dike road with a seven foot drop straight down to the water, the area was not accessible by rescue boat, there was a mucky bottom, and many large alligators were in the area. CNR contacted FWC-Andy J. Garrett (AJG) to inform him of the situation and that heavy lifting equipment would most likely be required for extraction. AJG recommended contacting SeaWorld to see if they could accept the manatees and if they were available to assist with the rescues. CNR contacted SeaWorld (SWF)-Bob Wagoner (BW). BW informed CNR that SWF was unable to assist with a rescue until at least later the following week. CNR informed BW and AJG that ECFL staff would continue to monitor the manatees since the weather had been cold. CNR, JEL, and JPH took temperature and salinity along the rest of the road and located a few warm water pockets. The three manatees were in the warmest pocket, which was 21.5°C. CNR contacted ACS to inform her of their findings.
30 November 2012	CNR and JEL searched the entire dike road and did not locate any of the manatees.
01 December 2012	JEL and JPH found all three manatees, but they were separated throughout the impoundment. The third manatee was found at the south-east corner of the impoundment, which was the only area with a gradual slope into the water. JEL contacted CNR at 1400 hrs to see if a rescue crew could be organized. CNR was transporting a carcass and was not available. JEL tried to call ACS, but she could not be reached. JEL then called FWC volunteers to assemble a rescue team for the following day.
02 December 2012	The smallest of the three manatees was rescued using ECFL staff and volunteers (REC1220). The manatee was transported to SeaWorld for rehabilitation in a rented UHaul van.

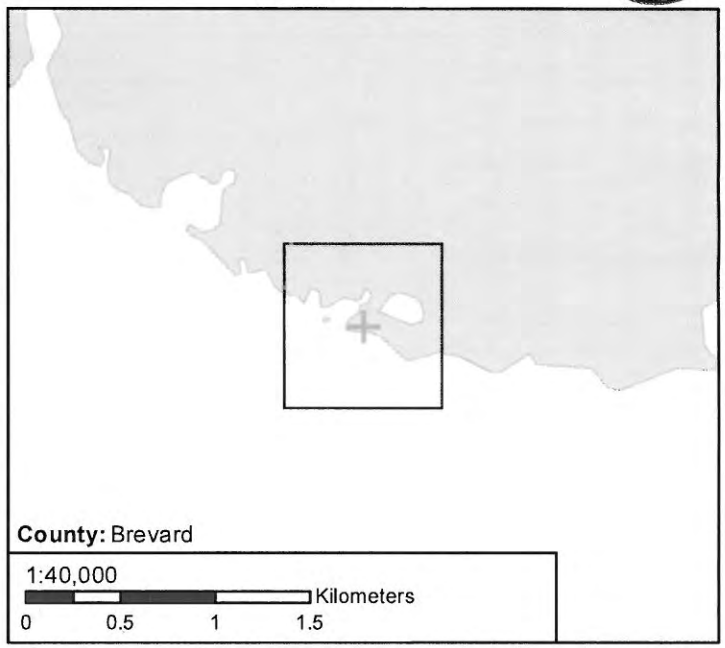
11 December 2012	CNR, JEL and ACS located one of the remaining two manatees. They followed the manatee and assessed its behavior. ACS photographed the manatee, but it was too late in the day to initiate a rescue.
13 December 2012	CNR and JPH searched the impoundment along the dike road starting at East Gator Road, while JEL and ACS searched at Peacock's Pocket. The manatees were not located.
17 December 2012	ACS and JEL searched along the dike road and located the same manatee as seen on December 11th. ACS set up a rescue for the following day with the Cape Canaveral National Sea Shore, SeaWorld, and FWC staff and volunteers.
18 December 2012	CNR drove the dike road and eventually located both remaining manatees. CNR contacted ACS to inform her that she had located the manatees and that they were swimming towards Gator Creek Rd. While ACS assembled a rescue crew, CNR kept track of the manatees until they veered off behind an island and she lost sight of them. The rest of the rescue crew arrived and split up to search for the manatees. At 1430 hrs, the manatees were relocated. The SeaWorld crew deployed one net from land and FWC deployed a second net further down the canal with both manatees in between the two nets. Each net had a manatee hit at the same time. REC1221 was captured and put into a stretcher. The manatee was then lifted with a front loader onto the dike road and loaded into the SeaWorld van. The other manatee managed to get out of the net and swim off. The rescue crew members searched extensively for the remaining manatee but were unable to locate it. SeaWorld staff transported REC1221 back to Sea World. Before leaving the site, ACS contacted park service staff and volunteers to forest up an extraction of the last animal later in the week. Duck hunting season prohibited entry onto the dike road the following day so ACS planned a rescue attempt for 20 December.
20 December 2012	ACS, CNR and volunteers JPH and Anel Sanchez (ATS) began searching for the remaining manatee early in the morning and located it by 1030 hrs. ACS contacted the park service, AJG, and JEL, who was standing by to rent a transport vehicle and collect the remaining volunteers, Matt Bretz and Sean. JEL arrived on scene and a net was quickly deployed across a bend in the impoundment, successfully trapping the animal in a small area. Difficulty in pulling the net due to bottom debris required the deployment of a smaller net inside of the larger net. This net was easier to maneuver and the manatee was quickly caught after deploying it. A stretcher was slipped under the manatee and capture net. The stretcher was attached to a backhoe with rolling straps and slowly extracted from the impoundment. After removing the manatee from the net, it was loaded into a transport vehicle and taken to SeaWorld by approximately 1800 hrs.

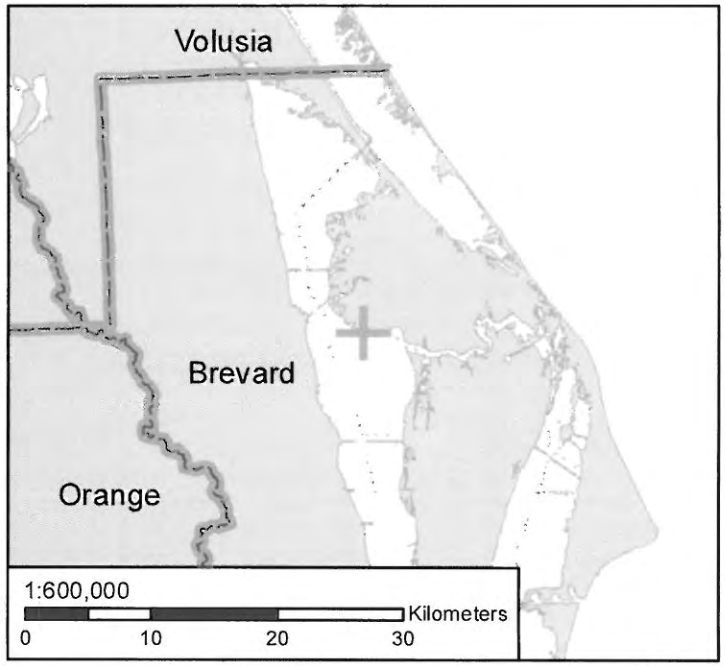
Participants:
FWC EC: A. Spellman, J. Ludema, C. Rush, (FWC Volunteers) J. Herr, A. Sanchez, M. Bretz , S. Skopek
NPS: M. Jones J. Stiner, Candice
REC1222
Photographs: FWC025_2012-12-20:5752-5817 and FWC020_2012-12-20:5394-5409

Verified Response Location of Manatee Rescue REC1222

Rescue Date: 12/20/2012 **Facility ID:** SWFTm1219b Map Created 11/5/2014







Locality Description:

Latitude: 28.60471°N **Longitude:** -80.75911°W

mosquito impoundment T24D at Peacock's Pocket, approximately 3.87 km SE of the FWC Law Enforcement Station at 1 A. Max Brewer Memorial Parkway, on the north side of the dike road

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Temporary ID: RCC1222 Time Net Set: —

Manatee ID: SWFTM1219B Date: 26 JUNE 2013 Time Captured(Onboard): —

Name: NITA Sex: M / (F) Time On Beach: —

ID of its Calf / Mom: NA Latitude: NA N Time Released: —

Location: SWF Longitude: NA W Data Recorder: A SPELLMAN

Event: ____Capture ____Rescue ____Pre-release Assess. ____Release ____Post-release Assess.

Air Temp = ___ C F Water Temp = ___ C F Wind: 0 mph ___ Cloud Cover: (S) PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 775	Manatee + stretcher —	Stretcher weight —
Lengths	Total Length (curvilinear) (cm)	269	
	Total Length (straight)	254	
Snout = 50cm to Axilla	Snout to Peduncle	184	
	Snout to Anus	165	
	Snout to Umbilicus	98	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: 107 cm	Belt Loc: in
	Girth at Anus: actual or ½	138	
	Girth at Umbilicus: actual or ½	194	
	Girth at Axilla: actual or ½	149	

ULTRASOUND N/A Reader Name:

Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 Poor 2 Fair 2.5 3 Good 4 Very Good 5 Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	Rounded / (Flat) / Concave
	Ventrum:	Rounded / (Flat) / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	A SPELLMAN

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / N

SAMPLES		
NA	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING		
NA	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?**	Y N
	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID SWFTM1219B Manatee Name: "Nitty" Date: 26 JUNE 2013

FREEZE BRAND	Letters/Numbers applied:		Applied by:	
N/A	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
YES	1			L / R
	2			L / R
	3			L / R
	Drawn by: S. Gearhart			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	(Y) / N
	PIT tagged by: B. Woodard-SWF			
	Right #	00074FFE72 (R)		Entered PIT & Cat. 10/12
	Left #	0007291516 (L)		
FLAG N/A	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
N/A	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	CHRISTINE M. BUSA/CNP		
	Exposures:	FWC025_2013_Dec_Jul: 7299-7318		
SKETCHES	Sketched by:	A. SPELLMAN		

Comments

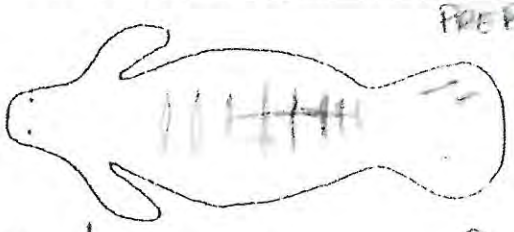
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 26 JUNE 2013 **Location:** SWF

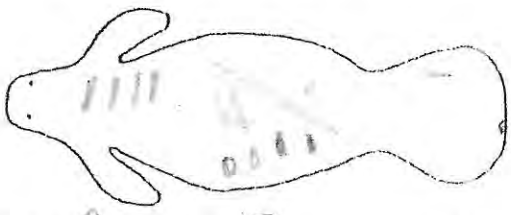
Observer Code(s): [illegible] **Sighting Times:** _____ - _____

PRE RELEASE HEALTH ASSESSMENTS



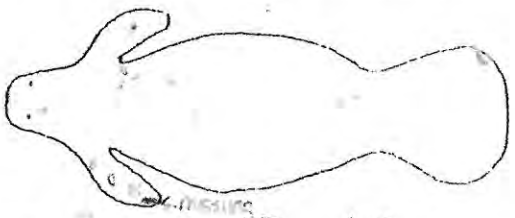
Field ID: 1 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7264-7279
TL= 208 cm WT= 880# REC 12/16
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "LACES" SWFTM 1214 / PIT (L) 00-0740-A040
SCHEDULED FOR RELEASE

Field ID: 4 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7299-7319
TL= 254 WT= 775#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "NUTTY" SWFTM 1222 / REC 1222
PIT (L) 00-074F FE747 (R) 00-0729-1516
SCHEDULED FOR RELEASE
→ Rel. 7/18/13

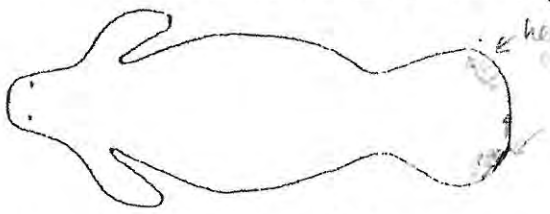


Field ID: 0 **Size:** (CC) _____ SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7280-7291
TL= NT WT= 585#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: REC 1303 / SWFTM 1313
NOT PIT TAGGED YET
NOT SCHEDULED FOR RELEASE

Field ID: 5 **Size:** (CC) 216 SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7314-7322
TL=216 WT= 400#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "ASHLEY" SWFTM 1307 / REC 1303,
PIT (L) 00-06E76D23 (R) 00-074F-BB1A
SCHEDULED FOR RELEASE ⇒ Rel 7/18



Field ID: 3 **Size:** (CC) 186cm SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7292-7298
TL= 186 cm WT= 240#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "ABIGAIL" SWFTM 1308 / REC 1304
HEALING CS lesions
NOT SCHEDULED FOR RELEASE



Field ID: 6 **Size:** (CC) - 232cm SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26 7323-7337
TL= 232 WT: 640#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "BRAILLE" SWFTM 1219 / REC 1221
PIT (L) 00-074F06085 (R) 00-074F-DFE0
SCHEDULED FOR RELEASE
SUTURES: SPELMAN ⇒ Rel. 7/18/13

Other Comments: PHOTOGRAPHER: CNR

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SeaWorld team returns four manatees to lagoon

Rehabilitated mammals each weighed 400-plus lbs.

Jul. 19, 2013 | 0 Comments

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Manatee release easier than rescue: John Stiner of the National Park Service describes the effort to rescue two manatees in December. By Scott Gunnerson. Secondary footage by Tim Shortt. Posted July 18, 2013.

Written by
Scott Gunnerson
FLORIDA TODAY

FILED UNDER

News
Local News
Indian River Lagoon
Kennedy Space Center

Pipsqueak the manatee had plenty of company when she returned Thursday to the Indian River Lagoon after months of rehabilitation in Orlando.

SeaWorld Orlando's animal rescue team successfully released four female manatees, each weighing more than 400 pounds, at the south end of Mosquito Lagoon near Kennedy Space Center.

"I think four is kind of like the most we've done at one time," said Pedro Ramos-Navarrete, supervisor of animal care at SeaWorld Orlando. "Doing this release has actually been really exciting, it is a really good feeling."

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More than 40 people were needed to lift the four manatees on stretchers and carry them into the water as nearly 100 people watched and cheered when the animals slipped into the water.

Ramos-Navarrete, a 23-year veteran of animal care at SeaWorld, said that previously the most manatees they had released at once was three, but the logistics for four were not that difficult.

"It requires a lot more people and it requires more vehicles," Ramos-Navarrete said. "It's not that bad as requiring more logistics, but it does require a little bit more."

Two trucks carried two manatees each as well as SeaWorld personnel from Orlando to Canaveral National Seashore. It took eight people to lift each manatee on a stretcher from the truck to the shoreline.

Pipsqueak was the first one out of a truck and was measured on shore one last time before being released. Chips were already implanted into each manatee for identification if they end up in trouble again.

Three of the manatees were rescued in December after becoming trapped in water-filled impoundments meant to control mosquitoes.

Pipsqueak and Nitty were rescued by the Florida Fish and Wildlife and Braille by SeaWorld Orlando. They were treated for mild cold stress.

The fourth manatee, Asaka, was rescued by Florida Fish and Wildlife in March when she was displaying problems with buoyancy. The manatee also was treated for propeller wounds.

John Stiner, a resource management specialist for Canaveral National Seashore, helped rescue Pipsqueak and Nitty after days of trying to locate the duo.

"It took a couple of days to pinpoint them because they kept moving," Stiner said. "When we were able to get the nets in the water to trap them, we had to wade in water that was chest deep and we had mud up to our knees."

Stiner was glad to see the manatees return to the national park.

"This is very gratifying that they are healthy now and we are able to let them go, especially with the difficulty in capturing them," Stiner said.

Ramos-Navarrete, who led the rehab effort at SeaWorld, had mixed emotions as the four now-healthy manatees frolicked about 30 yards offshore.

"It's kind of a bittersweet thing," Ramos-Navarrete said. "You've

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gotten this animal at death's doorstep and you actually got them healthy again."

But he hoped the farewell was forever.

"If we see them again, it means they are in trouble again. So we really don't want to see them again."

Contact Gunnerson at twitter.com/scottgunnerson, sgunnerson@floridatoday.com, 321-360-1016.

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SeaWorld Orlando returns 4 manatees to wild

Last Updated: Friday, July 19, 2013, 7:26 AM

BREVARD COUNTY – SeaWorld Orlando returned four manatees to their natural environment Thursday morning.

The manatees have been rehabilitating at SeaWorld Orlando for several months.

SeaWorld's Animal Rescue Team released them at Eddy Creek in Brevard County.

The female mantees who made their way back to their natural environment are:

Braille

Braille, who weighs 640 pounds, was rescued by SeaWorld Orlando in December after getting caught in the the mosquito impoundment in the Merritt Island National Wildlife Refuge.

VIDEO STORIES

- SeaWorld Orlando returns 4 manatees to wild

THEME PARK NEWS

- Latest SeaWorld News & Photos
- Theme Park Wars: Orlando Attractions News

SeaWorld Orlando's Animal Rescue Team has been rehabilitating her as she suffered from mild cold stress.

Pipsqueak
Don't let her name fool you! This sub-adult female weighs 575 pounds. After becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge last December, the Florida Fish and Wildlife Conservation Commission (FWC) rescued and transported her to SeaWorld Orlando. She has been receiving care at our park for mild cold stress since her rescue.

Nitty
Nitty, who was also rescued by the FWC in December after becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge, has been receiving care for mild cold stress during her time at SeaWorld Orlando. Nitty is the largest of the four animals and weighs 775 pounds.

Asaka
Asaka was brought to SeaWorld Orlando in March after being rescued by the FWC from the Indian River in Merritt Island, Fla. Asaka was suffering from natural buoyancy issues and had been floating very high in the water. Her health was evaluated by SeaWorld's animal experts upon arrival at the park, who found no visual signs of propeller or skeg marks. Asaka worked out her buoyancy issues during her time at SeaWorld.

LATEST NEWS: SEAWORLD ORLANDO

- Georgia sea turtle headed to SeaWorld Orlando
- SeaWorld slams opening documentary 'Blackfish'
- SeaWorld Orlando returns 4 manatees to wild
- SeaWorld Orlando welcomes rehabilitated sea turtle
- SeaWorld rehabilitates, returns 3 sea turtles
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Rescue D4h 1/6/

Calf by itself

GENERAL:

Date of Rescue: 06 January 2013 Date of Initial Call: 06 January 2013 Filed by: J. Ludema

Rescue ID#: REC1301 Facility ID: SWFTm1301b FWC Case: 234

Sex: Male Length: 143 cm Estimated: No

PIT Tag Present: No PIT Tag Applied: #R L

LOCATION:

State: FL City: Satellite Beach County: Brevard Waterway: Banana River

Latitude (Decimal Degrees): 28.20103° N Longitude (Decimal Degrees): -80.60612° W

Locality Description: approximately 8 m S of the shoreline behind 368 West Arlington Street, approximately 12 m E of S Patrick Drive.

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment ☒ Orphan ☒ Cold Stress

☐ Red Tide ☐ Other: (Specify):

VISUAL RECORD

	Photo - Slides	Photo - Digital	Video
Animal Entangled	☐	☐	☐
Injury	☐	☐	☐
Gear Removal Process	☐	☐	☐
Gear Alone	☐	☐	☐
Scars	☐	☐	☐
Rescue Situation	☐	☒	☐

HISTORY

Date	Narrative
06 January 2013	At 1442 hrs, FWC-biologist Jaclyn E. Ludema (JEL) received a text alert from FWC NE Dispatch-Orlando regarding a small manatee in the Berkeley Street canal. FWC case number 234 was assigned. The complainant, Ann Dervin (321-427-4856) described a small manatee exhibiting signs of cold stress. Dispatch requested officer assistance from FWC LE Ofc. Justin Morgan. Dispatch advised JEL that Ofc. Morgan was in route to the manatee. JEL called the complainant but she did not answer her phone. At 1500 hrs, Ofc. Morgan contacted JEL and informed her that the manatee had labored breathing, was having difficulty swimming, and had many cold-stress lesions on its body. JEL drove to Satellite Beach and met Ofc. Morgan. Upon evaluating the manatee, JEL determined that the manatee was in need of rescue. JEL contacted Sea World Florida-Bob Wagoner (BW). BW confirmed that Sea World would be able to house the manatee during rehabilitation. JEL contacted FWC-biologist

Rescue Report

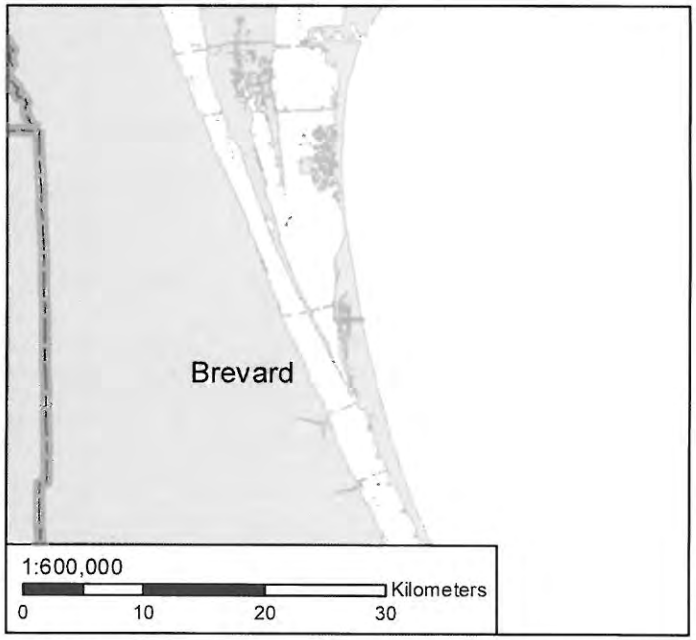
Andy J. Garrett (AJG) and informed him of the rescue situation. JEL also contacted FWC-biologist Ann C. Spellman (ACS) and FWC-volunteer Matt P. Bretz (MPB) and asked them to meet her for a rescue. ACS drove the ECFL transport truck to the rescue site. At 1620 hrs, JEL, ACS and MPB deployed the small net in the canal and JEL walked the net around the small manatee. ACS and MPB moved the manatee into the stretcher and at1645 hrs, JEL, ACS, MPB and Ofc. Morgan moved the manatee into the transport truck. The manatee was transported to Sea World, arriving at 1810 hrs. Sea World veterinarians began evaluating the health of the animal and decided to tube-feed the animal water. While placing the tube, the manatee stopped breathing. The Sea World veterinarian attempted CPR, but was unable to promote further respirations. The manatee was declared dead at 1825 hrs.

Participants
FWC EC: J. Ludema, A. Spellman; FWC Volunteer M. Bretz
Sea World Animal Care Staff

REC1301
Photographs: FWC025_2013-01-06: 5889 through 5919

Verified Response Location of Manatee Rescue REC1301

Rescue Date: 1/6/2013 **Facility ID:** SWFTm1301b Map Created 11/24/2014



Locality Description:
approximately 8 m S of the shoreline behind 368 West Arlington Street, approximtely 12 m E of S Patrick Drive.

Latitude: 28.20103°N **Longitude:** -80.60612°W

 Resc 1 D4i 1/61

Manatee Information (MLog:**1450**)

Animal ID:**SWFTm1301B** Sex:**M** Name: Rearing:**Wild reared**

-- Rescue Information ----------

Rescue Date: 01/06/2013 **Rescue Per Day:** 1

Rescue Type: Brought into captivity

Primary Cause: Natural Orphan Calf

REC1301

Primary Cause Text:

Secondary Cause: Natural Cold Stress

Secondary Cause Text:

Health Status: Critical

Suspected Pregnant: Animal sex is male or unknown

-- Rescue Location Information ----------

State: FL **County:** Brevard **City:** Satellite Beach

Waterway: Banana River (Berkeley Canal)

Latitude: 28.201000 **Longitude:** -80.606100

Relocated, where?:

Did animal die during rescue or transport?: No

-- Measurement ----------

Weight (kg): 73 **Estimated Weight?:** No **Date Weighed:** 01/06/2013

Length (cm): 142 **Estimated Length?:** No **Date Measured:** 01/06/2013

-- Other Rescue Information ----------

Tracker: **Transporter:** FWC Indian River Field Station

Facility transported to: SeaWorld Florida

Veterinarian: Laura Croft **Organization:** SeaWorld Florida

Participating Org: FWC-Indian River Field Lab SWF

Flood Gate: **Pot Status:**

Additional Narrative: Calf had severe cold stress, during the initial exam just after arriving, the animal expired.

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 02/03/2013

Updated By: Donna Szemer **Updated Date:** 02/04/2013

Szemer, Donna

From: Garrett, Andy
Sent: Monday, January 07, 2013 8:23 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update
Attachments: image002.jpg

SWFTM1301B
REC1301

Satellite Beach (Berkley Canal):

Yesterday, FWC-ECFL responded to a report of a lethargic orphaned calf in the Berkeley Canals. Staff found a 4.5 ft calf with cold stress lesions in the canal. There were adults present in the canal, but the calf did not appear to be associated with any of them. A dead adult female manatee that was lactating was recovered from the canal earlier in the week. ECFL staff decided to capture the manatee and Sea World agreed to accept the animal. Unfortunately, the manatee dies shortly after it was delivered to Sea World.

Mississippi:

Ruth Carmichael of the Dauphin Island Sea Lab (Alabama), received a report on Friday from someone in Mississippi who reported a manatee behind his house. He reported that the manatee had been behind is house all day and appeared lethargic. Ruth sent out the photo below. The manatee was not seen on Saturday. DISL has been in contact with USFWS and is prepared to respond if the manatee is called in again. There is a tentative plan to capture the animal and transport it to IMMS for temporary holding till it can be moved to Florida.

Mississippi

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1301b**
Date of Report: 2013-Jan-06
Filed By: FWC MMPL

FWC Case # 0234 **FWC Region:** NE

Sex: Male **Length:** 143 **cm** **Weight:** 71.0 **kg**

DATE REPORTED: 2013-Jan-06 **By:** Citizen to FWC NE Dispatch

DATE COLLECTED: 2013-Jan-07 **By:** FWC-JEL,ACS

DATE NECROPSIED: 2013-Jan-08 **By:** MMPL-MdW,AJG,BLB,KJR,ALP

LOCATION: **State:** FL **Latitude:** 28.20103 **N**
County: Brevard **Longitude:** -80.60612 **W**
Waterway: Banana River
Locality description: Satellite Beach, approximately 8 m S of the shoreline behind 368 West Arlington Street, approximtely 12 m E of S Patrick Drive.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Perinatal (<= 150 cm)

EXPLAIN: Natural: Cold Stress; Thickened epidermis; Cold stress lesions; Abscesses; Enlarged liver, T-septal lymph nodes; Nodules, firm, wet lungs; Fluid-filled upper GI tract, cecum; Wet proximal colon contents; Congested urinary bladder-, GI tract mucosa, meninges.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Internal, Other (lesions).

MATERIALS COLLECTED:

Genetics, ELISA toxicology samples, Archive toxicology samples, Histology.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report. Rescue report. Perinatal evaluation.

REMARKS:

PIT tag scan negative. Umbilical arteries closed. Urachus closed.Died on 06 Jan 2013. Died at 1820 hrs. Died in facility. Monofilament in cecum, colon. See rescue report REC1301.

Page 1&2	29 July 2014
Necropsy Report	29 July 2014
Lat/Long	29 July 2014

Asst. & Red

Entanglement monofilia

GENERAL:

Date of Rescue: 09 January 2013 Date of Initial Call: 14 August 2012 Filed by: C. Rush

Rescue ID#: REC1302 Facility ID: n/a Name: "Swale"

Sex: Male Length: 280 cm Estimated: Yes

PIT Tag Present: Und PIT Tag Applied: No #R L

LOCATION:

State: FL City: Orange City County: Volusia Waterway: St. Johns River

Latitude (Decimal Degrees): 28.94315° N Longitude (Decimal Degrees): -81.3417° W

Locality Description: Blue Spring Run across from the canoe beach, 135 m W of Thursby House at Blue Spring State Park (2100 W. French Ave.)

Method of Capture: In-water disentanglement

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☒ Entanglement ☐ Entrapment ☐ Orphan ☐ Cold Stress

☐ Red Tide ☐ Other: (Specify):

VISUAL RECORD

	Photo - Slides	Photo - Digital	Video
Animal Entangled	☐	☒	☐
Injury	☐	☒	☐
Gear Removal Process	☐	☐	☐
Gear Alone	☐	☒	☐
Scars	☐	☒	☐
Rescue Situation	☐	☐	☐

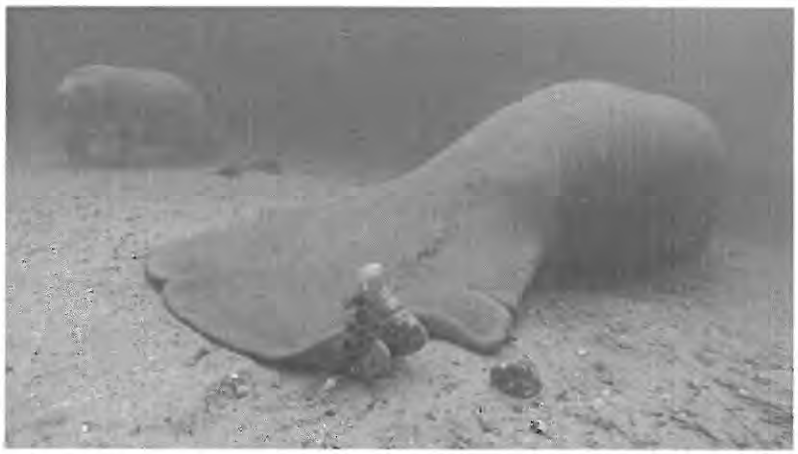
HISTORY

Date	Narrative
14 August 2012	Blue Spring State Park received a report of a manatee trailing approximately 7 feet of red rope. A description of the manatee was given to Save the Manatee Club-Wayne Hartley (WH). Based on the description, WH sent a photo of "Swale," to FWC-biologists Christine N. Rush (CNR) and Ann C. Spellman (ACS). Upon closer review of the photograph, ACS and CNR noticed monofilament entangled on the tail. ACS contacted WH to inform him of their findings.
30 October 2012	FWC-volunteer Diane S. Swartz sent ECFL staff updated photos of the entanglement. The manatee was no longer trailing rope, but still had a nest of monofilament attached to the tail. Due to the warm weather, "Swale" was only seen occasionally in the spring run for short periods of time.

Rescue Report

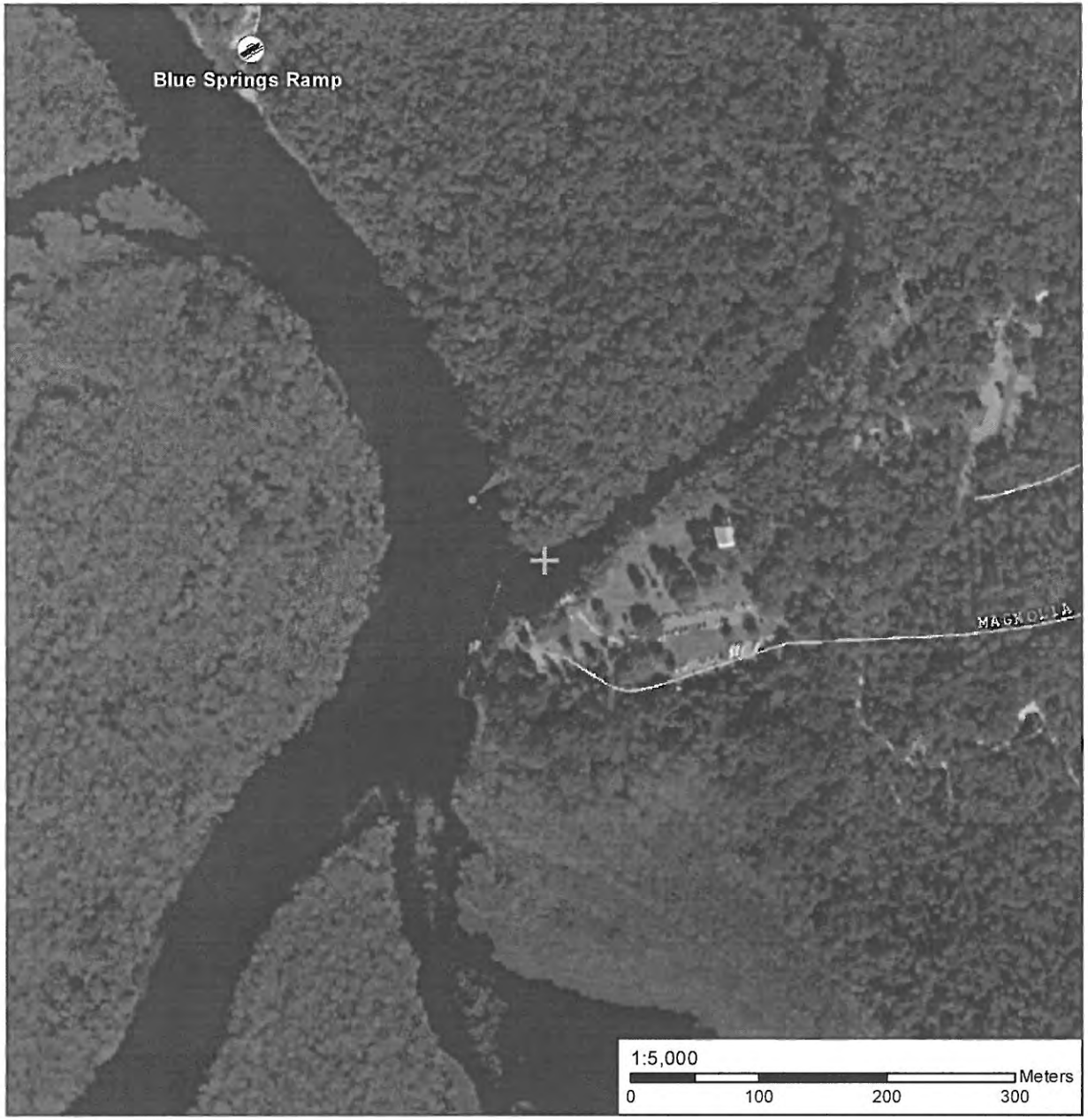
09 November 2012	WH observed "Swale" at the diver's entry and emailed ECFL staff that evening.
09 January 2013	CNR and WH were in a canoe searching for two other manatees of concern when they came across "Swale." CNR got into the water while WH kept an eye on the manatee. CNR dove down and began to cut away at the entanglement with a rescue knife. CNR dove down four times and finally completed the disentanglement across from the canoe beach. WH photographed "Swale's" clean tail with a Go-Pro from his canoe.

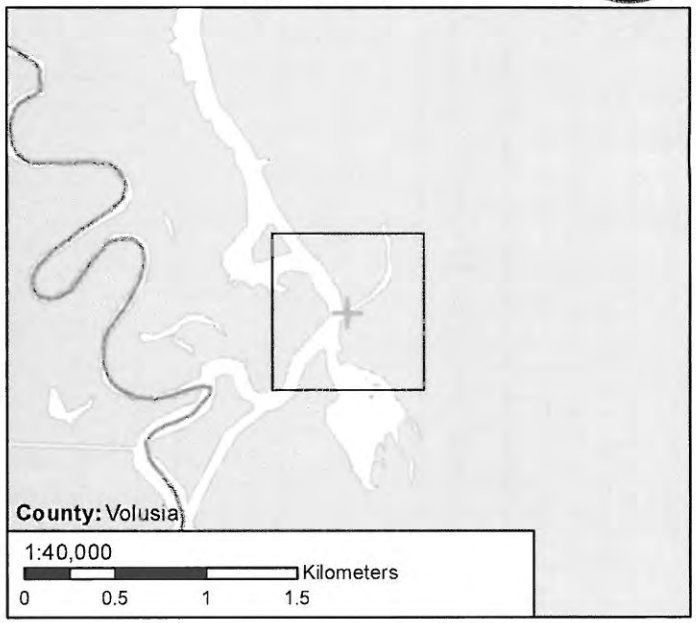
Participants
FWC EC: Christine N. Rush
Save the Manatee Club: Wayne Hartley
REC1302
Photographs: attached

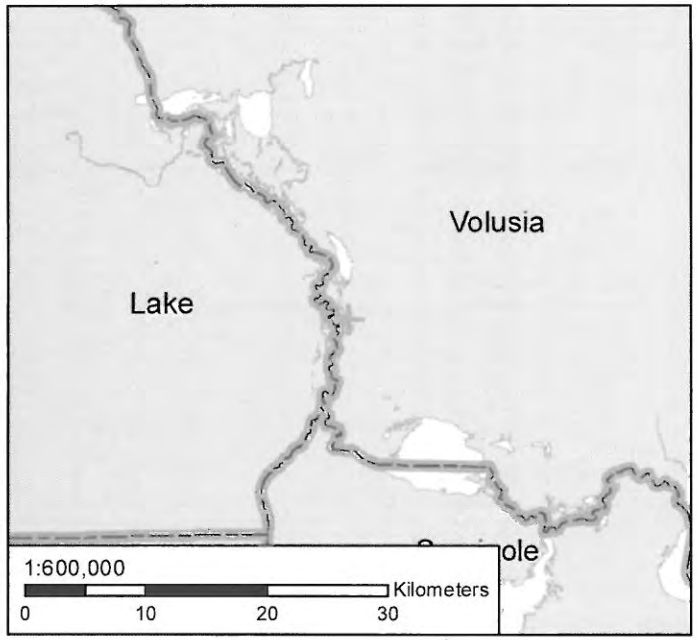


Verified Response Location of Manatee Rescue REC1302

Rescue Date: 1/9/2013 **Facility ID:** N/A Map Created 11/24/2014







Locality Description:

Blue Spring Run across from the canoe beach,135 m W of Thursby House at Blue Spring State Park (2100 W. French Ave.)

Latitude: 28.94315°N **Longitude:** -81.3417°W

Asst. + Rel Entanglement Monitor

REC1302

Szemer, Donna

From: Garrett, Andy
Sent: Wednesday, January 09, 2013 1:00 PM
To: Adrienne Atkins; Amy Teague; Art Yerian; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Alert and Update

Palm Coast:

FWC-NEFL staff are currently on scene with an approximately 6 ft manatee in a canal in Palm Coast (Flagler County). The manatee is at the surface and breathing every 1.5 minutes. There is visible white skin on the nose and head and visible lesions on the head. The manatee is coated with a thick algal mat. FWC staff are organizing a rescue team and will be calling Sea World to check for rehab availability.

Blue Springs:

Christy Rush (FWC-ECFL) was able to completely disentangle "Swail" in Blue Springs today. Swail was entangled around his/her peduncle and was trailing line past his/her tail.

Yesterday, Wayne Hartley reported that Georgia was with a small calf that was not her own. Wayne thinks that she might have recently adopted the calf. Wayne was able to observe the ventrum of the calf and reported to the FWC-ECFL staff that he calf's ventrum did not look good. FWC-ECFL staff could not locate Georgia or the calf this morning in Blue Springs and staff will continue to monitor the situation.

-Andy

Resc/Rel 7/18/13

Rescue Report REC1303

Natural other (buoyant)

GENERAL

Date of Rescue: 08 March 2013 Date of Initial Call: 03 March 2013 Filed by: J. Ludema

Rescue ID: REC1303 Facility ID: SWFTm1307B Other ID: "Asaka"

FWC Case Number: N/A FWC Region: N/A

Sex: Female Length: 209 cm Estimated: No Weight: 164 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Merritt Island County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.4853 ° N Longitude (Decimal Degrees): -80.73714 ° W

Locality Description: 1 km NW of the mouth of the Rinker Canal

Method of Capture: Open Water net set from a capture boat..

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Natural Buoyancy Problem

All Other

Describe: The manatee was excessively buoyant at the lower right dorsum.

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
03 March 2013	At 1300 hrs, FWC-biologist Ann C. Spellman (ACS) received a direct phone call from Sea to Shore-Monica Ross (MR) regarding a manatee at the FPL Cape Canaveral power plant in Port St. John. MR advised that the manatee was positively buoyant, possibly a result of a watercraft strike. ACS and FWC-biologist Jaclyn E. Ludema (JEL) drove to the power plant and verified that the manatee was in need of rescue.

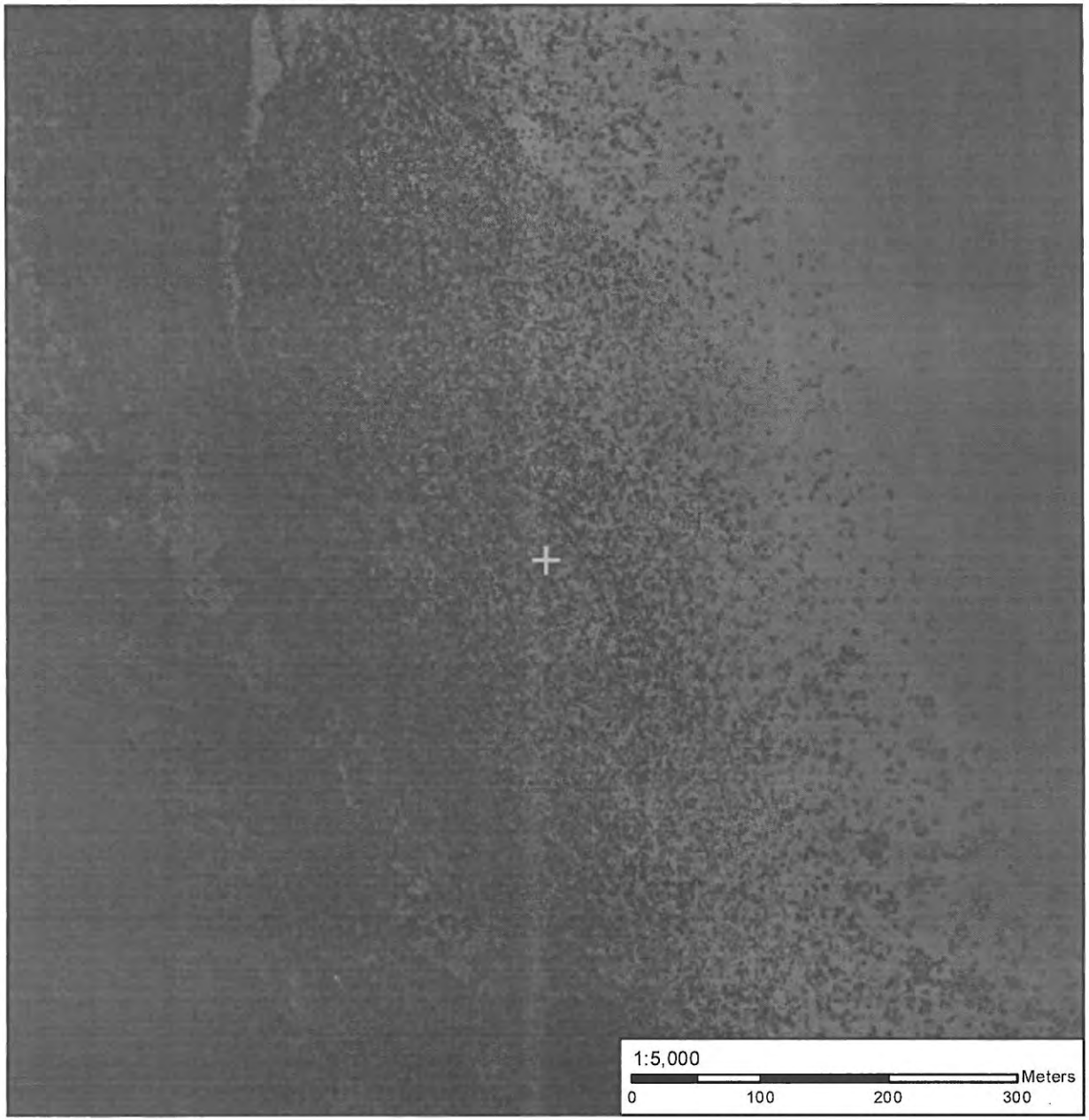
04 March 2013	ACS contacted FPL- Patty Lupo (PL) and requested she keep an eye out for the manatee. At the end of the day, PL reported that she did not see the manatee at the power plant throughout the day.
05 March 2013	At 1257 hrs, ACS requested permission in an email to the rescue coordination group to tag the manatee.
06 March 2013	At 1115 hrs, FWC-biologist Tom Reinert (TR) granted permission to tag the manatee on behalf of the rescue coordination staff. ACS picked up JEL and drove to the power plant. At 1451 hrs, JEL tagged the manatee in the southern intake canal. ACS photographed the manatee and the tracking gear.
07 March 2013	MEB called ACS and informed her that the manatee was in the power plant in the same spot she had been the day before. The EC Field Lab staff was unable to assemble for a rescue that day due to the heavy load of carcasses that needed to be collected and brought to the MMPL.
08 March 2013	At 0900 hrs, JEL drove to the power plant and verified that the manatee was still there. JEL contacted FWC-biologist Christine N. Rush (CNR) and they decided to attempt a rescue that day. CNR drove the FWC transport truck to the power plant to meet JEL. JEL contacted FWC-biologist John D. Cassady (JDC) and requested his assistance and use of their rescue boat. JDC was available to assist later in the day. JEL contacted FWC-volunteers Diane S. Schwartz (DSS), Dave M. Smith (DMS), Anel Sanchez (AS), Leo J. Cross (LJC), and Angela R. Preston (ARP) and requested that they meet at the Port St. John Boat Ramp at 1430 hrs. At 1430 hrs, the rescue team met at the boat ramp, launched the rescue boat, and travelled to the power plant. JEL and CNR entered the water and attempted to coax the manatee out of the intake canal. The manatee spooked and swam out of the intake canal. JEL and CNR got back on the boat and the rescue team followed the manatee out of the power plant and across the river until they reached a shallow area with little vegetation. The net was set around the manatee, and the manatee was pulled onto the boat and transported back to the boat ramp. The rescue team loaded the manatee into the FWC transport truck and JEL, DSS, DMS, and ARP transported it to Sea World for rehabilitation, arriving at approximately 2000 hrs.

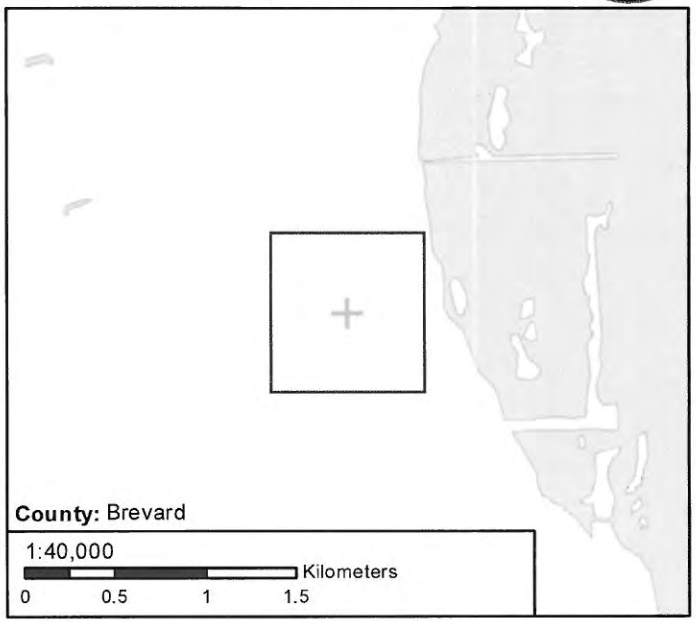
PARTICIPANTS

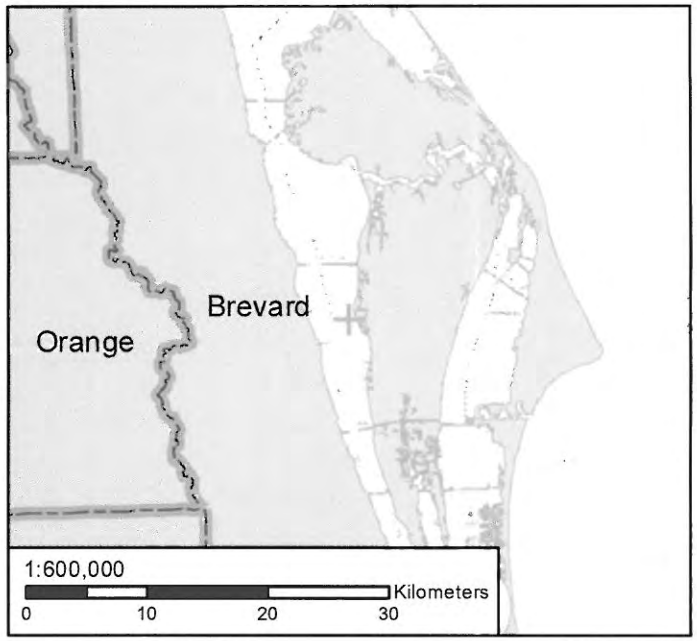
FWC EC: J. Ludema, A. Spellman, C. Rush
FWC SE: J. Cassady
FWC volunteers- D. Schwartz, D. Smith, A. Sanchez, L. Cross, A. Preston

Verified Response Location of Manatee Rescue REC1303

Rescue Date: 3/8/2013 **Facility ID:** SWFTm1307b Map Created 4/15/2015







Locality Description:
1 km NW of the mouth of the Rinker Canal

Latitude: 28.4853°N **Longitude:** -80.73714°W

RL 7/18/13

Manatee Information (MLog:**1469**)

Animal ID:**SWFTm1307B** Sex:**F** Name: Rearing:**Wild reared**

-- Rescue Information ----------

Rescue Date: 03/08/2013 **Rescue Per Day:** 1

Rescue Type: Brought into captivity

Primary Cause: ~~Natural Undetermined~~ => "Natural, Buoyancy Problem" (2)

REC1303

"Asaka"

Primary Cause Text:

Secondary Cause:

Secondary Cause Text:

Health Status: Guarded

Suspected Pregnant: No information on potential pregnancy is known

-- Rescue Location Information ----------

State: FL **County:** Brevard **City:** Merritt Island

Waterway: Indian River

Latitude: 28.485278 **Longitude:** -80.737222

Relocated, where?:

Did animal die during rescue or transport?: No

-- Measurement ----------

Weight (kg): 164 **Estimated Weight?:** No **Date Weighed:** 03/08/2013

Length (cm): 209 **Estimated Length?:** No **Date Measured:** 03/08/2013

-- Other Rescue Information ----------

Tracker: **Transporter:** FWC Indian River Field Station

Facility transported to: SeaWorld Florida

Veterinarian: Scott Gearhart **Organization:** SeaWorld Florida

Participating Org: FWC-Indian River Field Lab & Tequesta Field Lab SWF

Flood Gate: **Pot Status:**

Additional Narrative: Animal rescued due to floatation issues, she was floating with back end very high in water, no visual signs of prop or skeg marks, don't know why she was floating high.

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/14/2013

Updated By: D **Updated Date:** 03/14/2013

Leslie

Szemer, Donna

SW FTM1307B
REC1303

From: Garrett, Andy
Sent: Monday, March 11, 2013 8:06 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update
Attachments: IMG957455.jpg

Port St. John:

The manatee that was tagged by FWC-ECFL staff in the FPL intake canal last week was rescued on Friday by ECFL and SEFL staff. The manatee was taken to Sea World.

Tarpon Springs:

FWC-MMPL staff received a call late Saturday afternoon about an adult manatee with a large open wound (photo attached). The manatee was not called in yesterday, but MMPL staff are on stand-by to rescue if the manatee is called in again.

Southwest Florida:

No manatees were rescued this weekend in the red tide area, though we are still recovering many dead manatees in the southwest.

-Andy

Asst. to Rec / DH

Entrapment

Szemer, Donna

REC1305
(MEC13132)

From: Bassett, Brandon
Sent: Tuesday, March 26, 2013 11:21 AM
To: Szemer, Donna
Subject: FW: Manatees in intake at FPL

From: Gless, Jodie [mailto:Jodie.Gless@fpl.com]
Sent: Monday, March 25, 2013 2:53 PM
To: deWit, Martine; Reinert, Tom; Mezich, Ron; Knox, Carol; Ward, Leslie; Spellman, Ann; Garrett, Andy; Bassett, Brandon
Subject: RE: Manatees in intake at FPL

I should have clarified that, too. We do not know if it was indeed the mother. It was an adult sized animal that seemed to be assisting the calf with getting out of the well.

From: deWit, Martine [mailto:Martine.deWit@MyFWC.com]
Sent: Monday, March 25, 2013 2:49 PM
To: Gless, Jodie; Reinert, Tom; Mezich, Ron; Knox, Carol; Ward, Leslie; Spellman, Ann; Garrett, Andy; Bassett, Brandon
Subject: RE: Manatees in intake at FPL

May I ask how the mom-calf relationship was determined? From the photo, it looks in pretty bad shape, so just wondering if this could be an orphaned calf. Martine.

From: Gless, Jodie [mailto:Jodie.Gless@fpl.com]
Sent: Monday, March 25, 2013 2:45 PM
To: Reinert, Tom; Mezich, Ron; Knox, Carol; Ward, Leslie; Spellman, Ann; deWit, Martine; Garrett, Andy
Subject: RE: Manatees in intake at FPL

All,

I apologize for my delay in responding. Two things I'd like to clarify in the summary below.

1) The mother never entered the #4 well, only the calf was seen at the surface.
2) Our ops personnel saw the calf swim down on the southwestern side of the #4 well. At this time, the manatee was thought to have left the area. It wasn't seen again until it was brought up on the rake ~1.5 hours later. During this time, there was no flow through the well, which means the highlighted sentence below is correct.

Please let me know if you have any questions.

Thank you,

Jodie

Jodie Gless
Florida Power & Light Company
Environmental Services
561-691-2801 office

561-358-0374 cell
Jodie.Gless@fpl.com

From: Reinert, Tom [mailto:Tom.Reinert@MyFWC.com]
Sent: Monday, March 25, 2013 9:28 AM
To: Mezich, Ron; Knox, Carol; Ward, Leslie; Spellman, Ann; deWit, Martine; Garrett, Andy
Cc: Gless, Jodie
Subject: FW: Manatees in intake at FPL
Importance: High

Mom/calf pair spotted in one intake around 4-430 this AM, unit was shut off and the animals left. They then went into intake #4, which was shut off. I believe the manatees left intake 4 but were not immediately located by FPL staff. Prior to restarting intake 4, FPL ran the trash rake and pulled up the calf deceased. Jodie described some severe cold stress symptoms. They did not remove the calf from the rake and are seeking instruction from FWC prior to doing so. Jodie is talking to Ann now and has a set conf call at 930 with Carol and Ron.

Importantly, if I understood Jodie correctly, the calf was seen alive after #4 shut down and was discovered prior to it restarting.

This may be a high priority case to get to MMPL given we know a pretty tight window of mortality.

Jodie, please correct/enhance the above.

Tom

From: Gordon, Nadia
Sent: Monday, March 25, 2013 6:56 AM
To: Spellman, Ann; Rush, Christine; Ludema, Jaclyn; Garrett, Andy; Reinert, Tom
Subject: Fwd: Manatees in intake at FPL

Hi,

FPL understands to stand by until the manatees swim out, and that local biologists will be in contact around daybreak or so. FPL understands they are not to touch or harass the animals.

Thanks.

Nadia

Sent from my iPhone

Begin forwarded message:

> **From:** "Gordon, Nadia" <Nadia.Gordon@MyFWC.com>
> **Date:** March 25, 2013, 6:17:13 AM EDT
> **To:** "Spellman, Ann" <Ann.Spellman@MyFWC.com>, "Rush, Christine" <Christine.Rush@MyFWC.com>, "Ludema, Jaclyn" <jaclyn.ludema@MyFWC.com>
> **Subject: Manatees in intake at FPL**

5:57 am March 25 Orlando
Case 3148
FPL Cocoa
6000 US 1
Live manatee caught in intake
Mushed up against bars
Pump turned off
Animal appears okay
Need assistance getting the animal out

321-639-5444
Gerald Rogers or anyone who answers
First called at 4:07 am
Big mom and calf 5'

Operations on hold until FWC responds

Sent from my iPhone

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Temporary ID: RCC1303 Time Net Set: —

Manatee ID: SWFDN 13076 Date: 26 JUNE 2013 Time Captured(Onboard): —

Name: ASalu Sex: M / F Time On Beach: —

ID of its Calf / Mom: N/A Latitude: N/A N Time Released: —

Location: SWF Longitude: N/A W Data Recorder: A. SPELLMAN

Event: ____Capture ____Rescue ✓Pre-release Assess. ____Release ____Post-release Assess.

Air Temp = ___ C F Water Temp = ___ C F Wind: ____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 400	Manatee + stretcher —	Stretcher weight —
Lengths	Total Length (curvilinear) (cm)	225	
	Total Length (straight)	216	
Snout to axill=34cm	Snout to Peduncle	156	
	Snout to Anus	143	
	Snout to Umbilicus	75	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: 80 cm	Belt Loc: in
	Girth at Anus: actual or ½	182	
	Girth at Umbilicus: actual or ½	148	
	Girth at Axilla: actual or ½	117	

ULTRASOUND N/A	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION N/A	Body Score: 1 2 (2.5) 3 4 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	A. Jellman

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)

SAMPLES N/A	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets**? Y N
N/A	Temperature: Oral Naso-pharyngeal Rectal None Y N
	Respiratory Rate? Y N Y N

Manatee ID SWFDW1307B Manatee Name: Asaka" Date: 26 JUNE 2013

FREEZE BRAND	Letters/Numbers applied:		Applied by:	
NA	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
yes	see SWF records 1			L / R
	2			L / R
	3			L / R
	Drawn by: S. Gearhart DVM			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	(Y) / N
	PIT tagged by: B. Wagner SWF			
	Right #	__ __ 000 6E36D23 (R)	__ __ __	Entered captive PIT 2/1 out
	Left #	__ __ 00074FBB1A (L)	__ __ __	
FLAG N/A	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
N/A	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	CHRISTINE N. CUSH		
	Exposures:	FWC025-2013.06.26: 7314-7322		
SKETCHES	Sketched by:	A. SPALMAN		

Comments

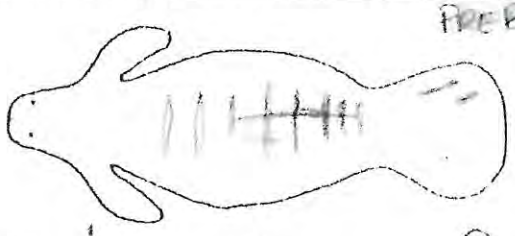
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 26 JUNE 2013 **Location:** SWF

Observer Code(s): [illegible] **Sighting Times:** _____ - _____

PRE RELEASE HEALTH ASSESSMENTS



Field ID: 1 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7261-7279
TL = 263 cm WT = 880# REC 1216
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "LACES" SWFTM 1214 /
PIT (L): 00-074E-C651 (R): 00-0740-A040
SCHEDULED FOR RELEASE

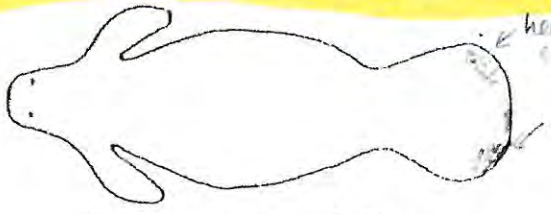
Field ID: 4 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7299-7319
TL = 254 WT = 775#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "NUTTY" SWFTM 1219 / REC 1222
PIT (L) 00-074F-FE72 (R) 00-0729-1516
SCHEDULED FOR RELEASE

Field ID: 2 **Size:** (CC) _____ SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7280-7291
TL = NT WT = 585#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: REC 1309 / SWFTM 1313
NOT PIT TAGGED YET
NOT SCHEDULED FOR RELEASE

Field ID: 5 **Size:** (CC) 216 SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7314-7327
TL = 216 WT = 400#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "ASHA" SWFTM 1307 / REC 1303
PIT (L) 00-076E-36D23 (R) 00-074F-BB31A
SCHEDULED FOR RELEASE ⇒ Rel 7/18

→ Rel. 7/18/13

Field ID: 3 **Size:** (CC) VACCM SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7292-7298
TL = NOT cm WT = 240#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "ABIGAIL" SWFTM 1308 / REC 1304
HEALING CS lesions
NO PIT TAGS YET
NO SCHEDULED FOR RELEASE



Field ID: 6 **Size:** (CC) - 232cm SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7323-7329
TL = 232 WT = 640#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "BRAILLE" SWFTM 1219 / REC 1221
PIT (L) 00-074F-0685 (R) 00-074F-DFE0
SCHEDULED FOR RELEASE
SCOUTS: SPELLMAN

Other Comments: PHOTOGRAPHER CNR

⇒ Rel. 7/18/13

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SeaWorld team returns four manatees to lagoon

Rehabilitated mammals each weighed 400-plus lbs.

Jul. 19, 2013 | 0 Comments

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Manatee release easier than rescue: John Stiner of the National Park Service describes the effort to rescue two manatees in December. By Scott Gunnerson. Secondary footage by Tim Shortt. Posted July 18, 2013.

Written by
Scott Gunnerson
FLORIDA TODAY

FILED UNDER

News
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Indian River Lagoon
Kennedy Space Center

Pipsqueak the manatee had plenty of company when she returned Thursday to the Indian River Lagoon after months of rehabilitation in Orlando.

SeaWorld Orlando's animal rescue team successfully released four female manatees, each weighing more than 400 pounds, at the south end of Mosquito Lagoon near Kennedy Space Center.

"I think four is kind of like the most we've done at one time," said Pedro Ramos-Navarrete, supervisor of animal care at SeaWorld Orlando. "Doing this release has actually been really exciting, it is a really good feeling."

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More than 40 people were needed to lift the four manatees on stretchers and carry them into the water as nearly 100 people watched and cheered when the animals slipped into the water.

Ramos-Navarrete, a 23-year veteran of animal care at SeaWorld, said that previously the most manatees they had released at once was three, but the logistics for four were not that difficult.

"It requires a lot more people and it requires more vehicles," Ramos-Navarrete said. "It's not that bad as requiring more logistics, but it does require a little bit more."

Two trucks carried two manatees each as well as SeaWorld personnel from Orlando to Canaveral National Seashore. It took eight people to lift each manatee on a stretcher from the truck to the shoreline.

Pipsqueak was the first one out of a truck and was measured on shore one last time before being released. Chips were already implanted into each manatee for identification if they end up in trouble again.

Three of the manatees were rescued in December after becoming trapped in water-filled impoundments meant to control mosquitoes.

Pipsqueak and Nitty were rescued by the Florida Fish and Wildlife and Braille by SeaWorld Orlando. They were treated for mild cold stress.

The fourth manatee, Asaka, was rescued by Florida Fish and Wildlife in March when she was displaying problems with buoyancy. The manatee also was treated for propeller wounds.

John Stiner, a resource management specialist for Canaveral National Seashore, helped rescue Pipsqueak and Nitty after days of trying to locate the duo.

"It took a couple of days to pinpoint them because they kept moving," Stiner said. "When we were able to get the nets in the water to trap them, we had to wade in water that was chest deep and we had mud up to our knees."

Stiner was glad to see the manatees return to the national park.

"This is very gratifying that they are healthy now and we are able to let them go, especially with the difficulty in capturing them," Stiner said.

Ramos-Navarrete, who led the rehab effort at SeaWorld, had mixed emotions as the four now-healthy manatees frolicked about 30 yards offshore.

"It's kind of a bittersweet thing," Ramos-Navarrete said. "You've

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gotten this animal at death's doorstep and you actually got them healthy again."

But he hoped the farewell was forever.

"If we see them again, it means they are in trouble again. So we really don't want to see them again."

Contact Gunnerson at twitter.com/scottgunnerson, sgunnerson@floridatoday.com, 321-360-1016.

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SeaWorld Orlando returns 4 manatees to wild

Last Updated: Friday, July 19, 2013, 7:26 AM

BREVARD COUNTY – SeaWorld Orlando returned four manatees to their natural environment Thursday morning.

The manatees have been rehabilitating at SeaWorld Orlando for several months.

SeaWorld's Animal Rescue Team released them at Eddy Creek in Brevard County.

The female mantees who made their way back to their natural environment are:

Braille

Braille, who weighs 640 pounds, was rescued by SeaWorld Orlando in December after getting caught in the the mosquito impoundment in the Merritt Island National Wildlife Refuge.

VIDEO STORIES

- SeaWorld Orlando returns 4 manatees to wild

THEME PARK NEWS

- Latest SeaWorld News & Photos
- Theme Park Wars: Orlando Attractions News

SeaWorld Orlando's Animal Rescue Team has been rehabilitating her as she suffered from mild cold stress.

Pipsqueak
Don't let her name fool you! This sub-adult female weighs 575 pounds. After becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge last December, the Florida Fish and Wildlife Conservation Commission (FWC) rescued and transported her to SeaWorld Orlando. She has been receiving care at our park for mild cold stress since her rescue.

Nitty
Nitty, who was also rescued by the FWC in December after becoming entrapped in a mosquito impoundment in the Merritt Island National Wildlife Refuge, has been receiving care for mild cold stress during her time at SeaWorld Orlando. Nitty is the largest of the four animals and weighs 775 pounds.

Asaka
Asaka was brought to SeaWorld Orlando in March after being rescued by the FWC from the Indian River in Merritt Island, Fla. Asaka was suffering from natural buoyancy issues and had been floating very high in the water. Her health was evaluated by SeaWorld's animal experts upon arrival at the park, who found no visual signs of propeller or skeg marks. Asaka worked out her buoyancy issues during her time at SeaWorld.

LATEST NEWS: SEAWORLD ORLANDO

- Georgia sea turtle headed to SeaWorld Orlando
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- SeaWorld Orlando welcomes rehabilitated sea turtle
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Rescue Report REC1304

Calf by itself (Cold Stress)

General

Date of Rescue: 23 March 2013 Date of Initial Call: 23 March 2013 Filed by: Christine Rush

Rescue ID: REC1304 Facility ID: SWFTm1308b Other ID: "Abigail"

FWC Case Number: 3071 FWC Region: NE

Sex: Female Length: 163 cm Estimated: No Weight: 77 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Merritt Island County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.33402° N Longitude (Decimal Degrees): -080.69685 ° W

Locality Description: behind 234 Serenity Point Ln

Method of Capture: Net set from land

Transferred 10/22/13 to Cincinnati

Transferred to MSQ 10/3/15 MSTm151D

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☐ Entrapment (Human)
- ☒ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☒ Orphan
- ☐ Other: (Specify): _____

All Other

Describe:

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative

23 March 2013	At 1228 hrs, FWC-biologist Christine N. Rush (CNR) responded to a text alert from FWC NE Dispatch-Orlando regarding an orphaned and cold-stressed calf in Merritt Island. FWC case number 3071 was assigned. The complainant, Meg Urban (321-454-4014), informed CNR that there was a small manatee behind her house that had a lot of white on its nose and was breathing rapidly. At 1345 hrs, CNR arrived on scene and verified that the manatee had cold stress lesions, abscesses all over its body, and was breathing erratically. The complainant informed CNR that a large manatee had been seen with the calf for a few days, but had not been seen for several days. Other large manatees were further down the canal, but not tending to the calf. CNR informed FWC-Andy Garrett of the situation and contacted SeaWorld to verify that they could accept the calf. CNR contacted FWC-Ann C. Spellman (ACS) to bring the rescue equipment and transport truck. Meanwhile, FWC-Volunteers Leo J. Cross (LJC), Angela R. Preston (ARP), and Stephanie Palmer (SP) met CNR at the complainant's house. When ACS arrived, the calf was at the east end of the canal by a small dock. ACS walked onto the dock with the hoop net, but the calf reacted and moved down the canal. After CNR made an attempt to swim the manatee back towards the east end and failed, ACS and LJC entered the canal at the far west end with the small net. No one had seen the manatee surface for air, so it was assumed that the manatee had left the canal. ACS and LJC began to walk the net towards the east end to get a better feel for the typography of the canal and walked the net into the resting calf. The rest of the rescue crew was called for assistance and the net was circled around the calf and brought to the shoreline. A stretcher was slid under the manatee and slowly lifted over the rocks. The manatee was transported to SeaWorld by ACS, with CNR and ARP in the back, arriving by 1755 hrs.

PARTICIPANTS

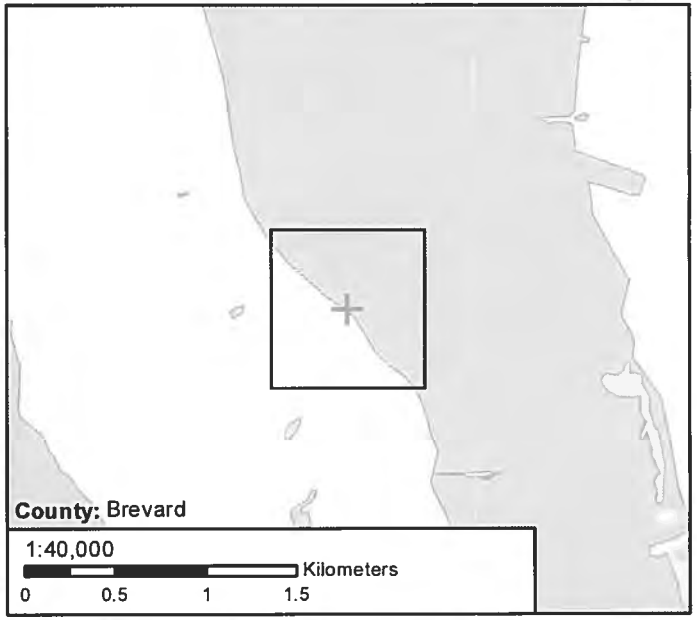
FWC EC: C. Rush, A. Spellman
FWC Volunteers: A. Price, L. Cross, S. Palmer

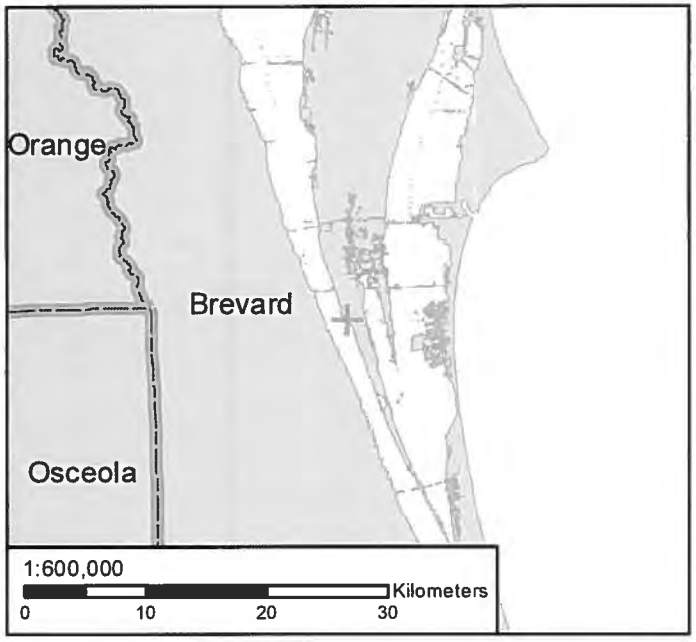
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1304

Rescue Date: 3/23/2013 **Facility ID:** SWFTm1308b Map Created 4/15/2015





Locality Description:
behind 234 Serenity Point Ln

Latitude: 28.33402°N **Longitude:** -80.69685°W

Manatee Information (MLog:**1481**)

Animal ID:**SWFTm1308B** Sex:**F** Name: Rearing:**Wild reared**

REC1304

-- Rescue Information ----------

Rescue Date: 03/23/2013 **Rescue Per Day:** 1

Rescue Type: Brought into captivity

Primary Cause: Natural Orphan Calf

Primary Cause Text:

Secondary Cause: Natural Cold Stress

Secondary Cause Text:

Health Status: Critical

Suspected Pregnant: Animal is known not to be pregnant

-- Rescue Location Information ----------

State: FL **County:** Brevard **City:** Merritt Island

Waterway: Indian River

Latitude: 28.333991 **Longitude:** -80.696781

Relocated, where?:

Did animal die during rescue or transport?: No

-- Measurement ----------

Weight (kg): 77 **Estimated Weight?:** No **Date Weighed:** 03/23/2013

Length (cm): 163 **Estimated Length?:** No **Date Measured:** 03/23/2013

-- Other Rescue Information ----------

Tracker: **Transporter:** FWC Indian River Field Station

Facility transported to: SeaWorld Florida

Veterinarian: Scott Gearhart **Organization:** SeaWorld Florida

Participating Org: FWC-Indian River Field Lab SWF

Flood Gate: **Pot Status:**

Additional Narrative: Calf was found in a canal (mud hole) behind Marlin St. off the Indian River in Merritt Island.

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/27/2013

Updated By: D **Updated Date:** 03/27/2013

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Temporary ID: REC 1304 Time Net Set: —

Manatee ID: SWFTM 1308 Date: 26 JUNE 2013 Time Captured(Onboard): —

Name: Abigail Sex: M / (F) Time On Beach: —

ID of its Calf / Mom: NA Latitude: NA N Time Released: —

Location: SWF Longitude: NA W Data Recorder: A. SPELLMAN

Event: ____Capture ____Rescue ✓ Pre-release Assess. ____Release ____Post-release Assess.

Air Temp = ___ C F Water Temp = ___ C F Wind: (0) mph S Cloud Cover: (S) PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 240	Manatee + stretcher —	Stretcher weight —
Lengths	Total Length (curvilinear) (cm)	184	
	Total Length (straight)	169	
Snout to Axilla = 29cm	Snout to Peduncle	126	
	Snout to Anus	103	
	Snout to Umbilicus	66	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 69 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	92	
	Girth at Umbilicus: (actual) or ½	127	
	Girth at Axilla: (actual) or ½	104	

ULTRASOUND N/A Reader Name:

Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (2.5) 3 4 5 Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	Rounded / (Flat) / Concave
	Ventrum:	Rounded / (Flat) / Concave / Ventral Folds
	Fresh Wounds or Lesions:	(Y) / N (describe in comments) healing pitted CS injuries
	Person(s) assessing condition:	A. Spellman

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)

SAMPLES		
N/A	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING		
	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?**	Y N
N/A	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID 1508 Manatee Name: Abigail Date: 6 NE 13

FREEZE BRAND	Letters/Numbers applied:		Applied by:	
NA	Location:			
BLOOD		Stick #	Start Time	End Time	Flipper
Ye	dee SWF repat	1			L / R
		2			L / R
		3			L / R
	Drawn by: S.G arhart				
	# Tubes of Blood Collected		Blue:	Red:	Purple:
			Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?		(Y) / N	PIT tagged at this capture?	Y (N)
	PIT tagged by:				
not yet	Right #		_ _ _ - _ _ _ _ - _ _ _ _		
	Left #		_ _ _ - _ _ _ _ - _ _ _ _		
FLAG - N/A	Color and Symbol				
TELEMETRY	**TAG** Type		Argos-GPS / Lotek-GPS / PTT / VHF		
N/A	Tag ID#				
	Tag / Antenna Color(s)		Tag:	Antenna:	
	VHF Frequency		164._____ MHz		
	Tag Sonic ID: FWC_____		Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color		FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____		Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed		Left / Right		_____ inches
	CR2a Programmed Release		Y / N	Date/Time:	
	DATA LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer		Onset		Star-Oddi
	Logger ID Number				
	Logger Location				
	TETHER Strength / Length		Strength:	Length:	ft.
	Tagged by:				
PHOTOGRAPHS	Taken by:		CHRISTINE N. RUSH / CNR		
	Exposures:		1 2 3 . 7292-7298		
SKETCHES	Sketched by:				

Comments

V tru

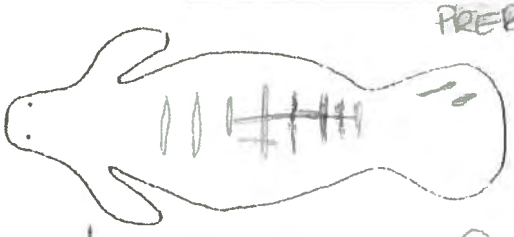
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 26 JUNE 2013 **Location:** SWF

Observer Code(s): SPELLMAN, CNR, JGL **Sighting Times:** _____ - _____

PRE-RELEASE HEALTH ASSESSMENTS



Field ID: 1 **Size:** CC - _____ (SU) AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7264-7279

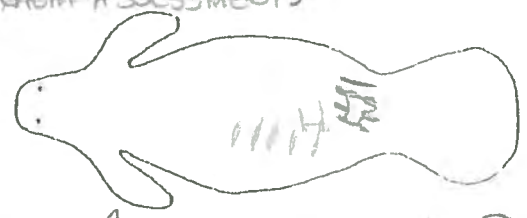
TL = 208 cm WT = 880# REC 1216

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "LACES" SWFTM 1214b

PIT (L): 00-074E-C634 / (R): 00-0740-A04D

SCHEDULED FOR RELEASE



whitepatch on chest (ventrum)

Field ID: 4 **Size:** CC - _____ (SU) AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7299-7318

TL = 254 WT = 775#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "NITTY" SWFTM 1219/REC1222

PIT (L) 00-074F FE72 (R) 00-0729-1516

SCHEDULED FOR RELEASE

Field ID: 2 **Size:** (CC) _____ SU AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7280-7291

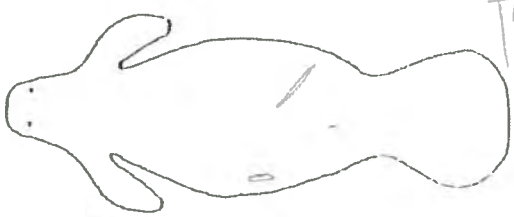
TL = NT WT = 585#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: PIT 1309 / SWFTM 1313

NOT PIT TAGGED YET

NOT SCHEDULED FOR RELEASE



→ Rel. 7/18/13

Field ID: 5 **Size:** (CC) 216 SU AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7314-7322

TL = 216 WT = 400#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "ASALIA" SWFTM 1307B/REC1303

PIT (L) 00-06E36 D23 (R) 00-074F-B3B1A

SCHEDULED FOR RELEASE ⇒ Rel 7/18

missing

Field ID: 3 **Size:** (CC) 184cm SU AA

Calf: WC WC? **Why:** _____

Sex: M (F) **How determined:** V NC

Exposures: FWC025-2013-06-26: 7292-7308

TL = 169 cm WT = 240#

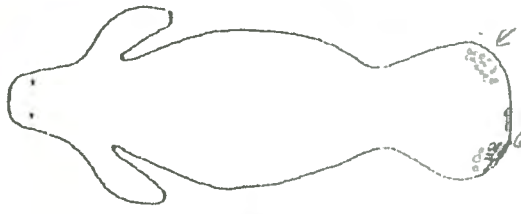
Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "ABIGAIL" SWFTM 1308/REC1304

NO PIT TAGS YET HEALING CS lesions

NO SCHEDULED FOR RELEASE

Other Comments: PHOTOGRAPHER: CNR



healed small circular white spots

Field ID: 6 **Size:** (CC) - 232cm SU AA

Calf: WC WC? **Why:** _____

Sex: M F **How determined:** V NC

Exposures: FWC025-2013-06-26: 7323-7328

TL = 232 WT = 640#

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: "BRAILLE" SWFTM 1218/REC1221

PIT (L) 00-074F0C085 (R) 00-074F-DFED

SCHEDULED FOR RELEASE

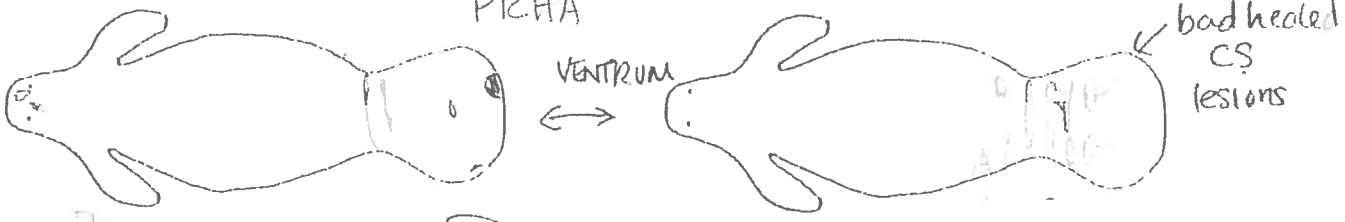
SKETCHES: SPELLMAN ⇒ Rel. 7/18/13

Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

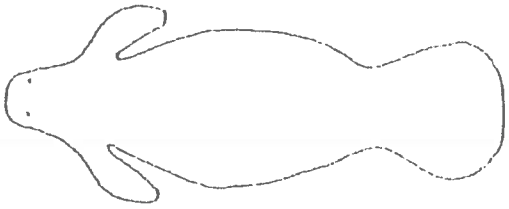
Date: 26 JUNE 2013 Location: SWF

Observer Code(s): CJR, SPELLMAN, JE Sighting Times: _____ - _____

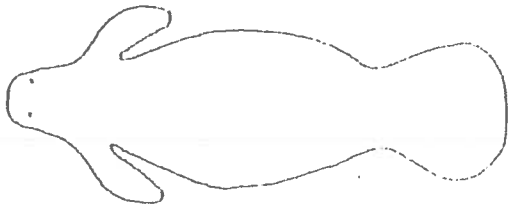


Field ID: 7 Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M (F) How determined: V NC
Exposures: FWC.025-2013-06-26' 7321-7340
TL = 219 cm WT = 505#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: PIT V SWF-TM 1303' RNEI302
NO PIT TAGS YET
NOT A RELEASE CANDIDATE YET

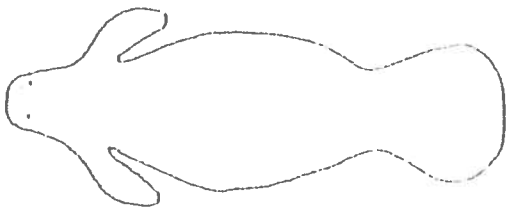
Field ID: _____ Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M F How determined: V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



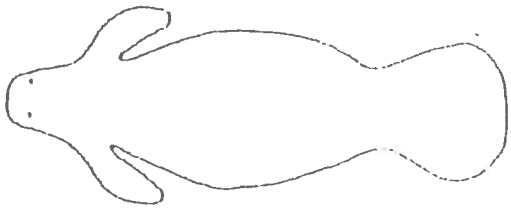
Field ID: _____ Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M F How determined: V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



Field ID: _____ Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M F How determined: V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



Field ID: _____ Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M F How determined: V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



Field ID: _____ Size: CC - _____ SU AA
Calf: WC WC? Why: _____
Sex: M F How determined: V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____

Other Comments: _____

7 News: Miami/Fort Lauderdale

"Abigail"
SWFTM1308B
REC1304
MSTM1510

Miami Seaquarium officials release manatee

Posted: Jan 19, 2016 1:24 PM EST
Updated: Jan 19, 2016 1:24 PM EST

VIRGINIA KEY, Fla. (WSVN) -- Marine biologists at the Miami Seaquarium helped release a manatee, Tuesday morning, after several years of rehabilitation.

Abigail the manatee was an orphan when she was found back in 2013, when her long road to recovery began. "We brought her in and treated her for the cold stress. Then we had to put weight on her," said Jessica Schiffhauer, a marine biologist. "We sent her up to Ohio for a couple of years, and she just came back here at the end of 2015."

Abigail is one of four manatees that were released Tuesday by the Florida Fish and Wildlife Conservation Commission.

http://www.wsvn.com/story/31002154/miami-seaquarium-officials-release-manatee

News 13

Four rehabilitated manatees returned to the wild

Last Updated: Tuesday, January 19, 2016, 5:56 PM

ORLANDO --

Four rehabilitated manatees were returned to the wild Tuesday in a multi-organization effort led by Florida Fish and Wildlife Conservation Commission (FWC).

The four rescued and rehabilitated manatees were returned back to their natural water ways by a large group of Florida's marine mammal experts -- including SeaWorld Orlando's Animal Rescue Team, Tampa's Lowry Park Zoo and the Miami Seaquarium.

The marine mammal experts worked together to return the manatees near the warm water outfall of the Port St. John power plant in Brevard County. The area will provide them with a warm water site during the current cold snap.

SeaWorld says the reason manatees are returned during cooler weather is because other wild manatees naturally congregate in specific warm water sources during these periods. Doing this allows the new animals to acclimate to a larger group, from which they can learn migratory patterns once the weather warms up. It also allows the newly-released manatees to familiarize themselves with a specific warm water site to return to the next time temperatures cool down.

The two animals released by SeaWorld were particularly special, including the 500th manatee rescued by the park, and an animal that was rescued two years ago as a tiny, 121-pound orphan that now weighs 705 pounds.

Manatees Returned:

Quincentariat- This juvenile male manatee was rescued on May 10, 2014 from the Banana River in Cape Canaveral due to cold stress. He was the 500th manatee rescued by the SeaWorld Orlando Animal Rescue Team. At the time of rescue he weighed 286 pounds, measuring 6 feet in length. The healthy manatee now weighs over 735 pounds, measuring more than 8 feet long.

Shirley- The orphan female calf was rescued on January 28, 2014 from the De Soto Canal in Brevard County. At the time of rescue she weighed 121 pounds and measured 4 feet 8 inches in length. The healthy and independent manatee now weighs 705 pounds and measures 7 feet 8 inches long.

Hammock- A young male patient named "Hammock" was rescued in March of 2014 from Indian River as an orphan, and will now receive a second chance at life in the wild after nearly two years of rehabilitation at the Manatee Hospital at Tampa's Lowry Park Zoo.

Abigail- In March 2013, Abigail was rescued from the Indian River system near Merritt Island in Brevard County, Florida. Suffering from cold stress, Abigail received critical care at Sea World Orlando and then was transferred to Cincinnati Zoo for rehabilitation. Then, in October of 2015, Abigail arrived at Miami Seaquarium to become acclimated to the natural diet and brackish water found in the region. She is estimated to weigh approximately 700-800 pounds and estimated to be between 3-5 years old.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/19/four_rehabilitated_m.html

Manatee Information (MLog:**1481**)

Animal ID:**SWFTm1308B** Sex:**F** Name:**Abigail** Rearing:**Wild reared**

-- Release Information ----------

Release Date: 01/19/2016

-- Release Location Information ----------

Release Site: Merritt Island

State: FL **County:** Brevard **City:** Port St. John

Waterway: Indian river

-- Measurement ----------

Weight (kg): 290 **Estimated Weight?:** No **Date Weighed:** 01/19/2016

Length (cm): 236 **Estimated Length?:** No **Date Measured:** 01/19/2016

-- Other Release Information ----------

Display Water Type: Brackish/Saltwater

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 03

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: seagrass

How many months has animal been exposed to vegetation? 02

Tracker: Sea to shore

Veterinarian: Maya Rodriguez

Organization: Miami Seaquarium

Participating Org:

Additional Narrative:

-- Report Information ----------

Created By: Jodi Tuzinski **Created Date:** 01/20/2016

Updated By: D **Updated Date:** 01/20/2016

Manatee Information (MLog:**1481**)

Animal ID:**SWFTm1308B** Sex:**F** Name:**Abigail** Rearing:**Wild reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 01/15/2016 **Tag ID** 00072AD491

Tag ID 00072AD491

Information:

Event: Release **Event Date** 01/19/2016

-- Report Information ----------

Created By: Jodi Tuzinski **Created Date:** 01/20/2016

Updated By: D **Updated Date:** 01/20/2016

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 01/15/2016 **Tag ID** 00072AAAEC

Tag ID 00072AAAEC

Information:

Event: Release **Event Date** 01/19/2016

-- Report Information ----------

Created By: Jodi Tuzinski **Created Date:** 01/20/2016

Updated By: D **Updated Date:** 01/20/2016

Entered
PIT
+
Captive.

DJS
1/22/16

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Manatee ID: ECU308/SWFM1308 / MSTM1510 Capture ID: NA Data Recorder: Angela Benton

Name: Aracelli Date: 19 January 2016

ID of its Calf / Mom: NA Sex: M / (F)

CAPTURE	RELEASE	TIMES
Location:	Location: FPL-ECEC-Cocoa	Initial Pursuit:
Latitude: N	Latitude: N	Net Set:
Longitude: W	Longitude: W	Captured(Onboard):
Water Temp: C F	Water Temp: C F	On Beach:
		Released:

EVENT: ____Capture ____Rescue ____Pre-release Assess. ✓ Release ____Post-release Assess.

Workup Site: Air Temp = ____ C F Wind: ____ mph ____ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb) or kg) 640	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	252	
	Total Length (straight)	234	
	Snout to Peduncle	135	
	Snout to Anus	109	
	Snout to Umbilicus	51	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 58 cm	Belt Loc: in
	Girth at Anus: actual or ½	142	
	Girth at Umbilicus: (actual) or ½	170	
	Girth at Axilla: (actual) or ½	Nt	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/ 18	/ 16	/ 13
Other:	2	/	/	/
	3	/	/	/

CONDITION		
	Body Score: 1 2 3 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	Ann Spellman
	Clinical Assessment Data Sheet?	Y / (N)

REPROD. STATUS		
	Pregnant? Y / N Describe:	
	Lactating?	Y / (N)

MONITORING		
	Heartrate: Stethoscope EKG Doppler (None)	Data Sheets? Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y N

FREEZE BRAND		
	Letters/Numbers applied: None	Applied by:
	Location(s):	

Manatee ID: LAC1304 | SWFM1308 | MSRM1570 Capture ID NA Date: 1 JANUARY

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by: NA		L / R	
			L / R	

SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze
Urine?	Y / N	Refrig / Freeze / EtOH
Fecal?	Y / N	Freeze / EtOH
Skin Scraping?	Y / N Location: ____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Skin Biopsy?	Y / N Location: ____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Tail Cookie?	Y / N Location: ____	Freeze / / DMSO
Mucosal Swab?	Y / N Oral / Rectal	Refrig
Other?	Y / N Tear Film / ____	Freeze / ____

PIT TAG	Scanned for previous PIT tag?	Y / N PIT tagged at this capture? Y / N
	PIT tagged by:	
	Right #	0 0 - _ _ _ _ - _ _ _ _
	Left #	0 0 - _ 7 _ _ - 3 _ _ _

TELEMETRY	Tag Type	Argos-GPS / PTT / VHF
TAG	Tag ID#	13606 tether Strength 47
contact SZS	Tag / Antenna Color(s)	Tag: Antenna: Yellow + white
Melody Fosher	VHF Frequency	164._(677_ MHz
for telemetry	Tag Sonic ID FWC_	Freq: kHz Code: PI: msec
info **BELT**	ID# / Size / Color	FWC_____ Length: _____in. Color: Red
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec
	Belt Knot / Webbing Exposed	Left / Right _____ inches
	CR2a Programmed Release	Y / N Date/Time:

LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			

TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.
	Tagged by:	
PHOTOGRAPHS	Taken by:	pel w
	Exposures:	
SKETCHES	Sketched by:	Ann Spellman
COMMENTS	N	

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Temporary ID: _____ Time Net Set: _____

Manatee ID: MSTm1510__ Date: 1-15-2016_____Time Captured(Onboard): _____

Name: **Abigail** Sex: Female Time On Beach: _____

ID of its Calf / Mom: _____ Latitude: _____N Time Released:_____

Location: _____ Longitude: _____W Data Recorder: _____

Event: ____Capture ____Rescue _X_Pre-release Assess. ____Release ____Post-release Assess.

Air Temp = ___ C F Water Temp = ___ C F Wind: ____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: 640 # (lb or kg) 1-19-2016	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	261 cm	
	Total Length (straight)	236 cm	
	Snout to Peduncle	173 cm	
	Snout to Anus	134 cm	
	Snout to Umbilicus	86 cm	
Girths	Girth at Peduncle: 97 cm actual	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: 150 cm actual		
	Girth at Umbilicus: 172 cm actual		
	Girth at Axilla: 150 cm actual		

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 Poor 2 Fair (3 Good) 4 Very Good 5 Excellent / Undetermined	
	Peanut shaped head? No	Ribs visible? No
	Side between anus & peduncle:	Rounded
	Ventrum:	Rounded
	Fresh Wounds or Lesions:	No
	Person(s) assessing condition:	Dr. Maya Rodriguez
REPROD. STATUS	Pregnant? No	
	Lactating?	No
SAMPLES	Milk sample collected? stored?	No
	Volume of milk collected? / Teat?	N/A
	Person collecting milk?	N/A
	Urine? stored?	No
	Fecal? stored?	No
	Skin? stored?	No
	Cookie?	Genetic Tube taken
MONITORING	Heartrate: Stethoscope	
	Temperature: Nasal	
	Respiratory Rate? Yes	

Manatee ID: MSTm1510 Manatee Name: Abigail Date: 1-15-2016

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
*Pre-release blood	1			L / R
collected	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Yes PIT tagged at this capture? Yes 1-15-2016		
	PIT tagged by:	Dr. Maya Rodriquez		
	Right #	**00-072A-AAEC**		
	Left #	**00-072A-D491**		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag: Antenna:		
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
	BELT Number / Belt Color	FWC_____ Length: _____" Color: _____		
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	Left / Right _____ inches		
	CR2a Programmed Release	Y / N Date/Time:		
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength: Length: ft.		
	Tagged by:			
PHOTOGRAPHS	Taken by:	Yes		
	Exposures:			
SKETCHES	Sketched by:			

Comments

Rese / D
3/25

Rescue Report REC1305

Entrapment Hu

GENERAL

Date of Rescue: 25 March 2013 Date of Initial Call: 25 March 2013 Filed by: A. Spellman

Rescue ID: REC1305 Facility ID: N/A Other ID: MEC13132

FWC Case Number: 3148 FWC Region: NE

Sex: Male Length: 132 cm Estimated: No Weight: 49.5 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Port St. John County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.4682° N Longitude (Decimal Degrees): - 080.76405° W

Locality Description: at the FPL power plant intake well #3

Method of Capture: N/A

REASON FOR RESCUE

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☒ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify):

Entrapment-Human Related

Describe: Impinged in FPL intake by current

All Other

Describe:

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☐	☐
Actual Rescue	☒	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
25 March 2013	The following narrative was provided by Jodie Gless-FPL regarding the accidental entrainment and release (and subsequent death-Reference mortality

report MEC13132) of a live manatee calf from the Number 3 intake well at the FPL Cape Canaveral Plant on 25 March 2013:

"At 0357 on 3/25/2013, Ray Knorr found a manatee calf alive in the #3 intake well at CCEC. Ray then reported the sighting to the production leader, Jerry Rogers, who ordered the #3 circulator shut down to relieve the water flow. Jerry Rogers then notified Jodie Gless and then the FWC hotline. Ray Knorr continued to keep watch on the animal. At 0505, Ray Knorr observed an adult manatee entering the #3 intake well with the calf. At 0600, Jerry Rogers and Ray Knorr were relieved by Dan Haager and Tony Rasnake, respectively. At approximately 0650, the adult swam over the calf and both swam out of the well. Tony and Dan began searching the intake canal for the adult and calf and neither was found. Soon thereafter, only the calf entered the #4 intake well.

The control room was contacted to start the #3 circ water pump, so that the #4 circ water pump could be shutdown. The traveling screens and pumps were running, so that they could get the #3 pump running at 0657. The circulating water pump was stopped on #4 at 0704. While the pumps were being switched, Tony Rasnake saw the calf swim down on the southwestern side of the #4 intake well. At this time, the manatee calf was thought to have left the area. Flow was never resumed in the #4 intake well after the manatee was originally seen. FWC field staff was notified.

Tony Rasnake, Dan Haager, Todd Brown and Jodie Gless continued monitoring the #3 and #4 intake wells for approximately 1.5 hours. At approximately 0820, Tony Rasnake lowered the rake in intake well #4. When the rake came up, the manatee calf was found dead on the rake. FWC was notified by Jodie Gless. FPL was directed to remove the manatee from the rake and put it on ice until FWC could arrive. When the calf was removed from the rake, it was evident that the calf had a very severe case of cold stress. It was covered in lesions and abscesses."

PARTICIPANTS:

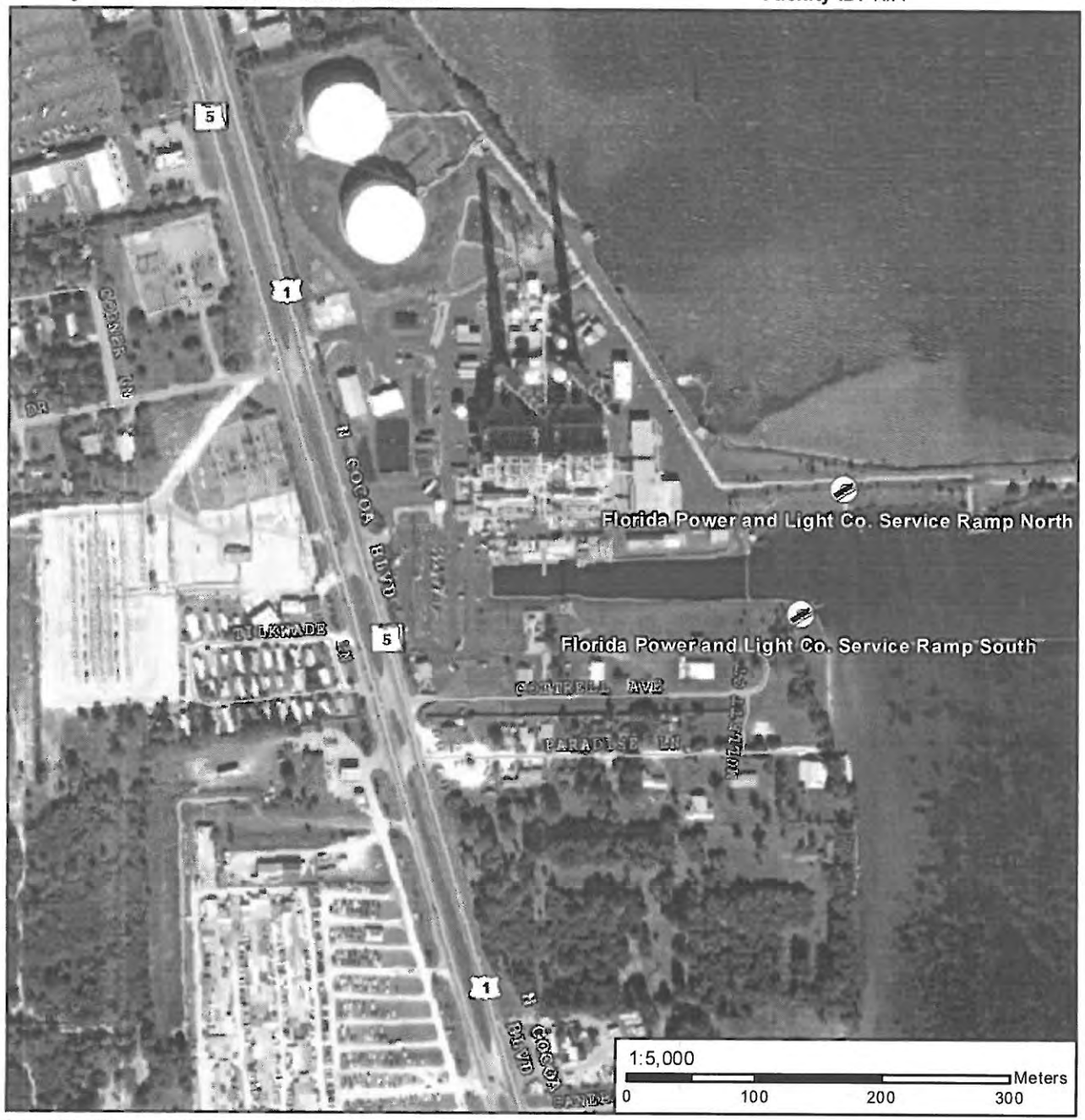
FPL

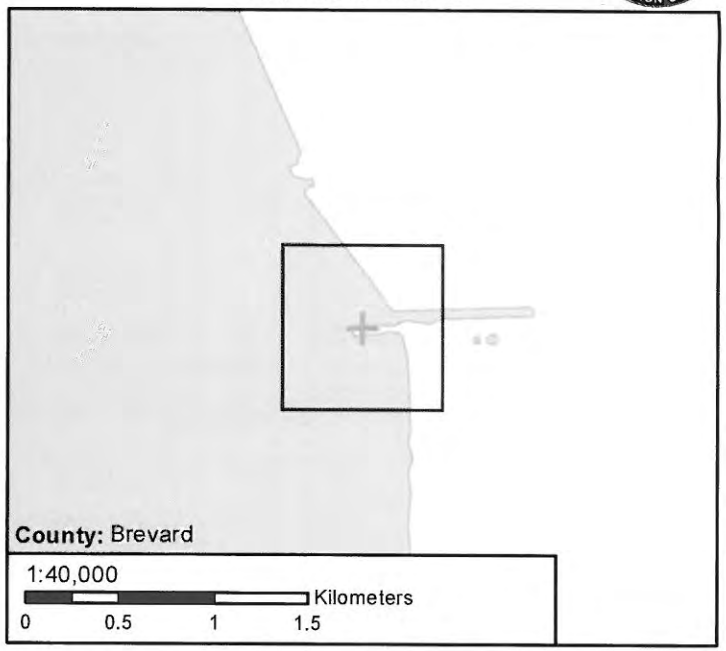
Edited by:
TRR
DJS
AJG

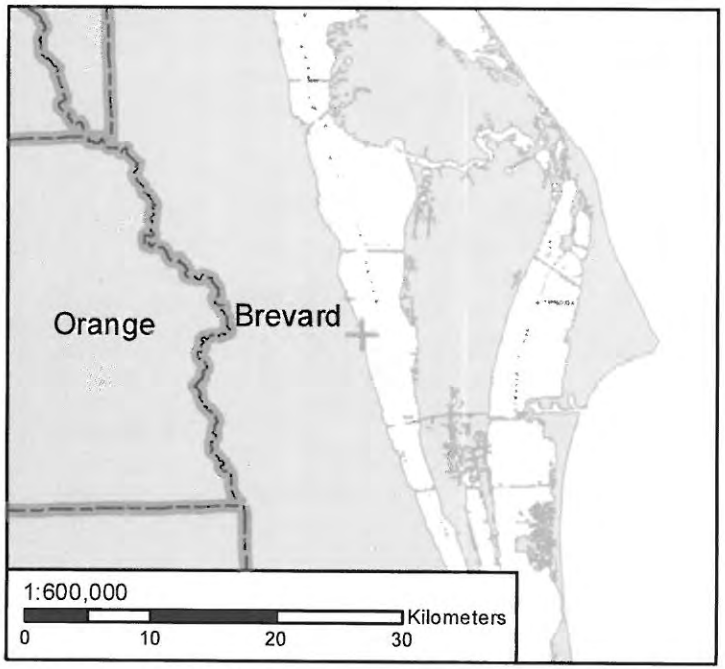
(02/20/2013)

Verified Response Location of Manatee Rescue REC1305

Rescue Date: 3/25/2013 **Facility ID:** N/A Map Created 9/28/2015







Locality Description:
at the FPL power plant intake well #3

Latitude: 28.4682°N **Longitude:** -80.76405°W

Rose D
HEC

Szemer, Donna

Entrapment
Human

From: Reinert, Tom
Sent: Monday, May 13, 2013 1:58 PM
To: Szemer, Donna
Cc: Garrett, Andy
Subject: RE: Cause of Rescue for REC1305

I am thinking Entrapment. At Port Everglades, we have had to remove animals from their intake canal that can't (won't) make it back through their culverts, despite no physical barrier (other than the strong current). This calf was so small that it may not have been strong enough to get back out of the intake well had they not shut the pump down.

Thanks,

Tom

PS – I know I have a back log of edit to get to and will do so today or tomorrow. I hope.

From: Szemer, Donna
Sent: Monday, May 13, 2013 1:34 PM
To: Reinert, Tom
Cc: Garrett, Andy
Subject: Cause of Rescue for REC1305

Hi, Tom-

Andy and I have been discussing a recent case (REC1305-see history in attachment) and how it should be categorized. The two options are: Human, other or Entrapment, human structure.

There are arguments for both of these categories based on the "Description of Rescue Circumstances" document (also attached).

Entrapment implies a physical barrier (culvert, gate, lock, dock, etc.) through which an animal cannot navigate back to open water. (I believe up to this point all rescues involving a power plant are listed as Entrapment, but none with this particular situation.)

Human, other: usually ingestion but encompasses any other human interaction.

Support for Entrapment, human structure: We can argue that the force of the water caused by the power plant was "entrapping" the manatee against the grate and would not allow it to leave. --We have had animals swim through a culvert, but due to the force of the water travelling through the pipe, was reluctant to swim against the current to escape.

Support for Human, other: There was no physical barrier (that I know of) keeping the manatee in the intake canal other than the suction of the water through the intake grate holding the calf against the grate.

What are your thoughts?

Thanks,
Donna

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MEC13132**
Date of Report: 2013-Mar-25
Filed By: FWC MMPL

FWC Case # 3148 **FWC Region:** NE

Sex: Male **Length:** 132 **cm** **Weight:** 49.5 **kg**

DATE REPORTED: 2013-Mar-25 **By:** FPL to FWC NE Dispatch

DATE COLLECTED: 2013-Mar-25 **By:** FWC-ACS,volunteer Jay Gorzelany

DATE NECROPSIED: 2013-Mar-26 **By:** MMPL-MdW,KJR,BLB,LRA,ALP,NYT

LOCATION: **State:** FL **Latitude:** 28.4682 **N**
County: Brevard **Longitude:** -80.76405 **W**
Waterway: Indian River
Locality description: Port St. John, sunken at the FPL power plant intake well #4.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Human Related: Other

EXPLAIN: Hemoabdomen; Blood clots; Shredded, hemorrhagic muscle; Torn liver, transverse septum; Wet, bloody lungs; Froth in airways; Spleen pallor; Congested GI tract, meninges, heart. The manatee was severely compromised to cold stress, but the immediate cause of death was trauma associated with suction in power plant intake.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Fluke, Cranial, Internal, Other (lesions).

MATERIALS COLLECTED:

Genetics, ELISA toxicology samples, Archive toxicology samples, Histology.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report. Rescue report. FPL incident report.

REMARKS:

PIT tag scan negative. Umbilical arteries closed. Urachus was closed at bladder tip.Thickened epidermis; Emaciated; Depleted fats; Serous fats; Abscesses; Cold stress lesions; Osteomyelitis with abscess. Enlarged liver, lymph node. See rescue report REC1305.

Page 1&2	27 Feb 2015
Necropsy Report	27 Feb 2015
Lat/Long	27 Feb 2015

Resc / R
12/

Rescue Report REC1306

Watercraft

GENERAL

Date of Rescue: 09 April 2013 Date of Initial Call: 09 April 2013 Filed by: A. Spellman

Rescue ID: REC1306 Facility ID: SWFTm1309β Other ID: "Vesuvia"

FWC Case Number: n/a FWC Region: NE

Sex: Female Length: 251 cm Estimated: No Weight: 293 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Melbourne County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.08162° N Longitude (Decimal Degrees): - 80.59600° W

Locality Description: Kiwanis Park at Geiger Point at 1313 Melbourne Causeway, grounded in mangroves near the SW corner of the parking lot

Method of Capture: Stretcher

REASON FOR RESCUE

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☐ Penetrating Cuts ☒ Impact ☐ Other

Describe: Skeg marks to head and shoulders

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
09 April 2013	At 1040 hrs, FWC biologist Ann C. Spellman (ACS) received a call at the EC Field Lab office from a citizen who had found an injured manatee in the Indian

	River, Melbourne, Brevard County. The complainant, Amy (321-266-4584), had spotted the manatee in the same location two days earlier while jogging, and was concerned that something was wrong with it since it had not moved. FWC biologists Christine N. Rush (CNR) and Marjorie M. Foster (MMF) arrived at the location within ten minutes. The manatee was grounded in less than one foot of water and appeared to be very lethargic, disoriented and showed neurologic impairment. There was evidence of two fresh, superficial, linear wounds to the head and shoulder regions. CNR proceeded to support the manatee in the shallows while MMF contacted ACS and requested additional assistance and the rescue transport truck. ACS and FWC-biologist Jay F. Gorzelany (JFG) responded to the location. The manatee was moved into a stretcher and, with the help of several local citizens and members of the FIT football team, removed from the water and carried to the transport truck. The manatee was immediately taken to SeaWorld Florida.

PARTICIPANTS

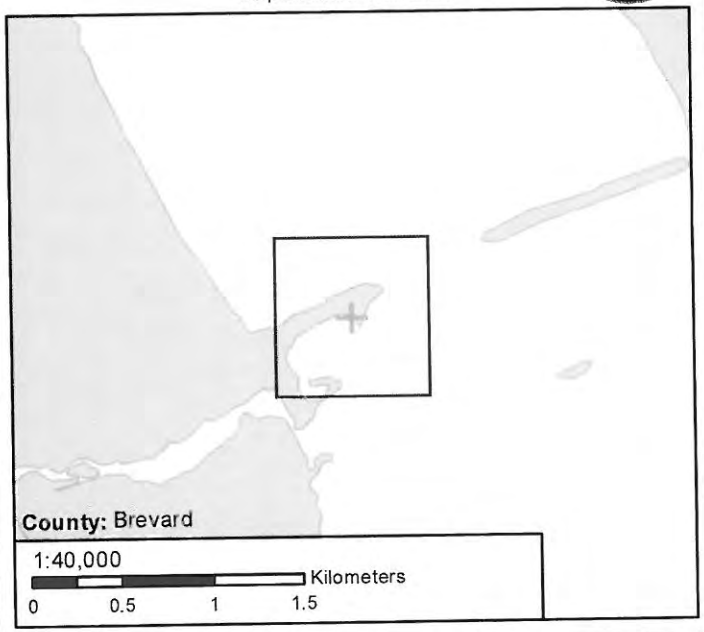
FWC EC: A. Spellman, C. Rush, J. Gorzelany, M. Foster
FIT Football team and local Citizens

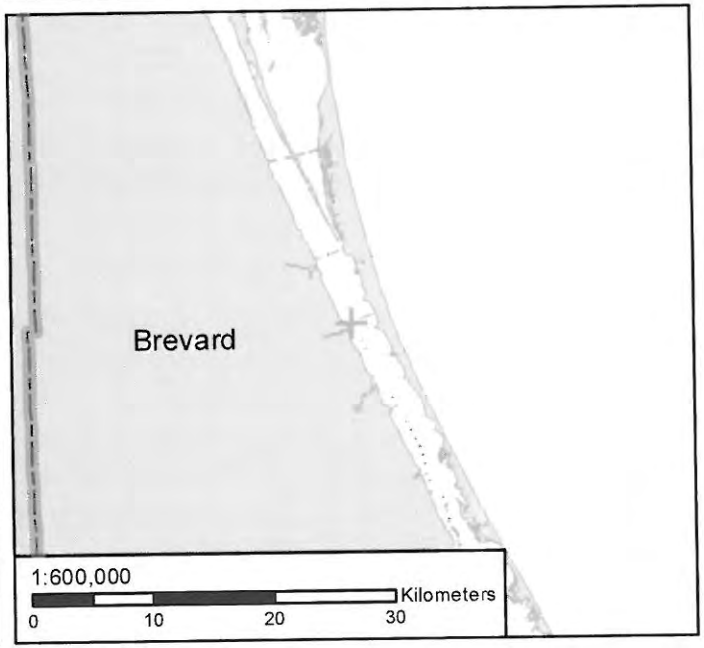
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1306

Rescue Date: 4/9/2013 **Facility ID:** SWFTm1309b Map Created 4/10/2015





Latitude: 28.08162°N **Longitude:** -80.596°W

Locality Description:

Kiwanis Park at Geiger Point at 1313 Melbourne Causeway, grounded in mangroves near the SW corner of the parking lot

Resc
Watercraft
SWFTM130
REC1306

Szemer, Donna

From: Garrett, Andy
Sent: Tuesday, April 09, 2013 12:27 PM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Guy, Kayla; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

Melbourne:

A 7-8 ft lethargic manatee was reported to FWC-ECFL staff this morning near Melbourne. Staff responded and found a lethargic manatee in shallow water. The manatee's head was supported by rescuers until the transport team arrived. Initially, staff thought that the manatee was dealing with an ailment associated with the UME in the area, but once in the transport truck, a thin linear wound was observed on the manatee's head. The manatee is currently in transport to Sea World.

Marathon:

FWC-SEFL and DRC staff spent yesterday trying to locate "Scott" (chronically entangled manatee) in the waters around Marathon. They were unable to locate him. FWC and DRC staff are currently searching again today.

-Andy

Szemer, Donna

From: Garrett, Andy
Sent: Monday, December 02, 2013 12:16 PM
To: Szemer, Donna
Subject: FW: Releases a go for tomorrow and Thursday.

fyi

-----Original Message-----
From: Spellman, Ann
Sent: Monday, December 02, 2013 12:07 PM
To: Baxter, Kevin
Cc: Garrett, Andy
Subject: Releases a go for tomorrow and Thursday.

Released 12/3/13

Hi again Kevin-
So tomorrow we are a go to release an 800+lb manatee that we rescued in Melbourne back in April for a watercraft strike to the head. We hope to have some of the FLA TECH football team/staff on hand to assist with the release as they helped us carry the manatee to the transport truck the day of the rescue- nice local human interest story. As far as I know SWF is doing a press release. We will get GoPro video and photos for you if you like. Time of SWF arrival :0930-1000h

Thursday- a manatee named Dorothy-Gail, rescued May 19th in the Mosquito Lagoon will be released in Titusville at Parrish Parkk boat Ramp. At Chip's request she will go out w/ a satellite tag as part of our winter captures study. She is 600+lbs and about 3 years old. Margie will be coming over to tag her. We will also have GoPro form this and photo. SWF will do a press release on this as well, I believe. Time of SWF arrival :0930-1000h

Call if you need any additional info. :) Cheers, Ann

Ann C. Spellman
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission Indian River Field Lab
1220 Prospect Ave., Ste 285
Melbourne, FL 32901
Phone: 321-953-5037
Fax: 321-984-4824

Ann.Spellman@MyFWC.com

www.MyFWC.com

Life isn't about waiting for the storm to pass, it's about learning to dance in the rain.

SWFTM1309B
REC1306

"Vesuvia"

Released
12/3/13

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SWFTM 1309B
REC 1306
"Vesuvia"

Florida Tech coaches participate in release of manatee

Dec. 3, 2013 | Comments

A A

Florida Tech coaches help give manatee a second ch...: Florida Tech volleyball coach Amy O'Brien discovered an injured manatee last April. The manatee was taken to SeaWorld for medical treatment and was released Tuesday morning back into the lagoon. Video by Malcolm Denemark

Written by
Jim Waymer
FLORIDA TODAY

FILED UNDER

News
Local News
Florida Tech

MELBOURNE — Thanks to some heavy lifting from Florida Tech's volleyball and football coaches, an 855-pound manatee has a second lease on life.

On Tuesday, SeaWorld rescuers released the female manatee from Front Street Park, near where Amy O'Brien, FIT's volleyball coach, had been jogging when she spotted the injured sea cow back in April.

"I thought it was dead," O'Brien said of the manatee's condition when she found it near Kiwanis Park along the Melbourne Causeway. The manatee had a broken rib and other wounds from a boat skeg and propeller. O'Brien called state wildlife officials, who were a bit shorthanded that day and said they needed some help lifting the manatee to safety before it could be transported to SeaWorld in Orlando.

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Florida Tech volleyball and football coaches joined SeaWorld animal experts on Tuesday to help release a manatee found in distress last spring by the Panthers volleyball coach Amy O'Brien near Front Street Park. / MALCOLM DENEMARK/FLORIDA TODAY

How to help

It is not advisable to handle any sick or dead wildlife, but citizens can report them by calling the FWC's Wildlife Alert Hotline at 888-404-3922.

So O'Brien called in some muscle from FIT's football coaching staff: Mike Nahl, Rod Hardy, Austin Silvoy, Dan Sabock and Ethan Tyler. They helped lift the manatee out of the water, so it could be taken to SeaWorld for treatment. There, veterinarians administered antibiotics and dressed the animal's wounds with raw honey to prevent infection.

"It was very convenient," Christie Rush, a marine mammal biologist with the Florida Fish and Wildlife Conservation Commission, said of having the FIT coaches help. "It was the easiest rescue."

Rescue workers at first worried the animal would die. "It was pretty touch and go for a while," said Stacy DiRocco, a veterinarian at SeaWorld.

The same FIT coaches who helped rescue the manatee — they dubbed her "Manny" — showed up Tuesday to help set her free. They lifted her again, this time in a blue tarp.

"Bye," said Tyler, the football team's strength and conditioning coach. "Bye, Manny."

"I don't mind getting out of work to save a manatee," Tyler said.

O'Brien gazed out from the Front Street Park dock, as Manny's snout poked up from the water.

Then Manny headed north.

Contact Waymer at 321-242-3663 or jwaymer@floridatoday.com. Follow him on Twitter @JWayEnviro

View Comments () | Share your thoughts »

FIT Coaches Help SeaWorld, FWC Release Manatees

SWFTM1309
REC1306

By Ryan Jones // December 6, 2013

BREVARD COUNTY, FLORIDA – Four of Florida Tech's coaches gave a manatee a second chance at life when they assisted SeaWorld Rescue and the Florida Fish and Wildlife Conservation Commission in releasing it into the Indian River lagoon Tuesday morning.

The release of the manatee, named Vesuvia by SeaWorld and nicknamed "Manny" by head volleyball coach Amy O'Brien, was the first manatee release in two days for SeaWorld and FWC in Brevard County. (Florida Tech and SeaWorld images)

The release of the manatee, named Vesuvia by SeaWorld and nicknamed "Manny" by head volleyball coach Amy O'Brien, was the first manatee release in two days for SeaWorld and FWC in Brevard County.

Earlier on Thursday, the two organizations waved goodbye to another rehabilitated manatee, Dorothy Gail, at Parrish Park in Titusville.

Both manatees recovered from watercraft injuries.

VESUVIA RETURNED TO INDIAN RIVER IN MELBOURNE

Vesuvia, a five-year-old sub adult female manatee, was returned to the waters of Front Street Park in Melbourne. O'Brien discovered Vesuvia near Kiwanis Park off the Melbourne Causeway on a jog in April. She then called the FWC, who immediately responded to the area.

Vesuvia, a five-year-old sub adult female manatee, was returned to the waters of Front Street Park in Melbourne. (SeaWorld image)

In need of help lifting the manatee out of the water for transportation to SeaWorld Orlando, assistant football coaches Rod Hardy, Mike Nahl, Dan Sabock and Austin Silvoy along with head strength and conditioning coach Ethan Tyler arrived to help rescue the sea cow.

At SeaWorld, she received radiographs, antibiotics and regular flushing of deep abscesses on her body. During rehabilitation, Vesuvia gained 110 pounds and weighed 855 pounds when she was returned.

On Tuesday, Hardy, Nahl, O'Brien and Tyler returned Vesuvia to her home. Sabock and Silvoy were on the road recruiting.

"I'm happy Manny made a full recovery," O'Brien said. "SeaWorld did a great job taking care of her because we were not sure she would make it. It was special for the coaches and me to see her again."

In collaboration with the government and other members of accredited stranding networks, SeaWorld Parks & Entertainment operates one of the world's most respected programs to rescue ill and injured marine animals, with the goal to rehabilitate and return to the waters.

SeaWorld animal experts have helped more than 22,000 animals in need – ill, injured, orphaned and abandoned – for more than four decades. So far this year, SeaWorld Orlando has rescued 17 manatees and returned 10, including today's return. (SeaWorld image)

SeaWorld animal experts have helped more than 22,000 animals in need – ill, injured, orphaned and abandoned – for more than four decades. So far this year, SeaWorld Orlando has rescued 17 manatees and returned 10, including today's return.

The Manatee Rescue & Rehabilitation Partnership (MRP) is a cooperative group of non-profit, private, state, and federal entities who work together to monitor the health and survival of rehabilitated and released manatees.

Information about manatees currently being tracked is available at WildTracks.org. If you see injured marine animal, you can help by calling the FWC hotline at 888-404-3922 or by dialing *FWC on a cellular device.

Manatee Information (MLog:**1485**)

Animal ID:**SWFTm1309B** Sex:**F** Name:**Vesuvia** Rearing:**Wild reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 11/27/2013 **Tag ID** 00074D9D14

Tag ID 00074D9D14

Information: Pit tagged in left shoulder area with #00074D9D14 for future release.

Event: Rescue **Event Date** 04/09/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/27/2013

Updated By: D **Updated Date:** 11/27/2013

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 11/27/2013 **Tag ID** 00074F319B

Tag ID 00074F319B

Information: Pit tagged in right shoulder area with #00074F319B for future release.

Event: Rescue **Event Date** 04/09/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/27/2013

Updated By: D **Updated Date:** 11/27/2013

Entered PIT + Captive. 3/23/14 JJS

Szemer, Donna

From: Wagoner, Robert C. [Robert.Wagoner@SeaWorld.com]
Sent: Sunday, March 02, 2014 7:54 AM
To: Szemer, Donna
Cc: Spellman, Ann
Subject: RE: Vesuvia's PIT tag numbers

Hi Donna,

The 00074D9D14 is correct for her left side.

Thanks,
Bob

From: Szemer, Donna [mailto:Donna.Szemer@MyFWC.com]
Sent: Friday, February 28, 2014 2:22 PM
To: Wagoner, Robert C.
Cc: Spellman, Ann
Subject: Vesuvia's PIT tag numbers

Hi, Bob-

Can you please verify the PIT tag numbers for Vesuvia (SWFTM1309B)?

I have 00-074D-8418 and the web database has 00-074D-9D14.

Thanks!
Donna

Szemer, Donna

From: Spellman, Ann
Sent: Tuesday, December 03, 2013 3:23 PM
To: Cathy Beck
Cc: Szemer, Donna
Subject: Manatee Release today SWFTm1309/REC1306
Attachments: FWC025_2013-12-03_8362.jpg

"Vesuvia", female SWF measured her at 269, we got 259cm.
R:00-074F-319B L: 00-074D-8418 -1D14
Released at Front Street Park, Melbourne, IRL

Cathy- I will send additional photos/sketch in another email. Photographer: FWC-Amy R. Etherington

Ann C. Spellman
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission Indian River Field Lab
1220 Prospect Ave., Ste 285
Melbourne, FL 32901
Phone: 321-953-5037
Fax: 321-984-4824

Ann.Spellman@MyFWC.com

www.MyFWC.com

Life isn't about waiting for the storm to pass, it's about learning to dance in the rain.

Resc / Dgh 4/29/13

Rescue Report

REC1307

Calf by itself

GENERAL

Date of Rescue: 24 April 2013 Date of Initial Call: 24 April 2013 Filed by: C. Rush

Rescue ID: REC1307 Facility ID: SWFTm1310b Other ID:

FWC Case Number: 4485 FWC Region: NE Orlando

Sex: Male Length: 93 cm Estimated: No Weight: 15 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Merritt Island County: Brevard Waterway: Sykes Creek

Latitude (Decimal Degrees): 28.3703° N Longitude (Decimal Degrees): -80.66914° W

Locality Description: near the seawall behind 770 Hannah Drive.

Method of Capture: Small net and hand

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☒ Orphan ☐ Other: (Specify): _____

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
24 April 2013	At 1300 hrs, FWC-biologist Christine N. Rush (CNR) received a text alert from FWC NE Dispatch-Orlando regarding a small manatee in distress. FWC case number 4485 was assigned. The complainant, Ann Wilson (321-452-0333), had noticed the manatee bobbing in the water behind her residence. Two large manatees were also in the immediate area, but no nursing was observed. CNR and FWC-biologist Jaclyn E. Ludema (JEL) arrived at the scene by 1330 hrs. The two larger manatees in the area would occasionally nuzzle the manatee or push it, but then leave. JEL contacted FWC-Andy J. Garrett (AJG) to inform him of the situation as well as SeaWorld-Robert Wagoner (RW) to verify that they could accept the manatee. While JEL stayed on scene to further observe

the manatee, CNR returned to the EC Field Lab to get the transport truck and rescue equipment. FWC-volunteer Paul J. Caudill (PJC) met CNR at the lab to assist with the rescue. CNR also contacted FWC-volunteer Leo J. Cross (LJC) for assistance. While CNR was getting the equipment, JEL observed the manatee attempting to nurse off of both of the larger manatees; one of which was verified to be a male. It seemed clear after observing the manatee for a few hours that it did not have a mother.

Since the manatee was still bobbing at the surface near the end of the canal, CNR and JEL entered the water with a small net and deployed it around the manatee. Given the condition of the manatee, the net was slowly taken back to the seawall where CNR passed the manatee to JEL, who then lifted it up to LJC on shore. LJC immediately brought the manatee to the rescue truck and placed it in the pool.

CNR contacted RW to inform him they were en route. CNR also contacted AJG to inform him of the successful rescue. While on the way to SeaWorld, JEL rubbed honey on the manatee's lips to keep its blood sugar up. The rescue team met BW at the Sea World security gate at 1735 hrs and transferred the calf to veterinary staff.

PARTICIPANTS

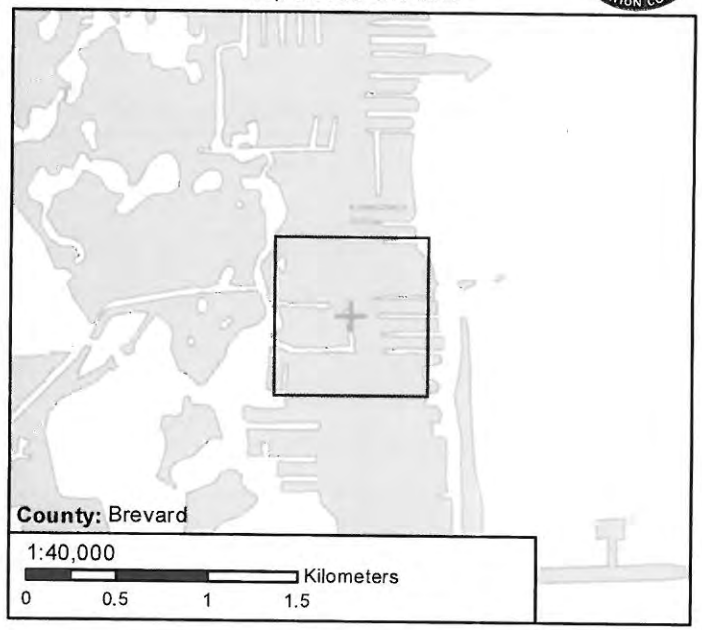
FWC EC: C. Rush, J. Ludema,
FWC Volunteers: P. Caudill, L. Cross

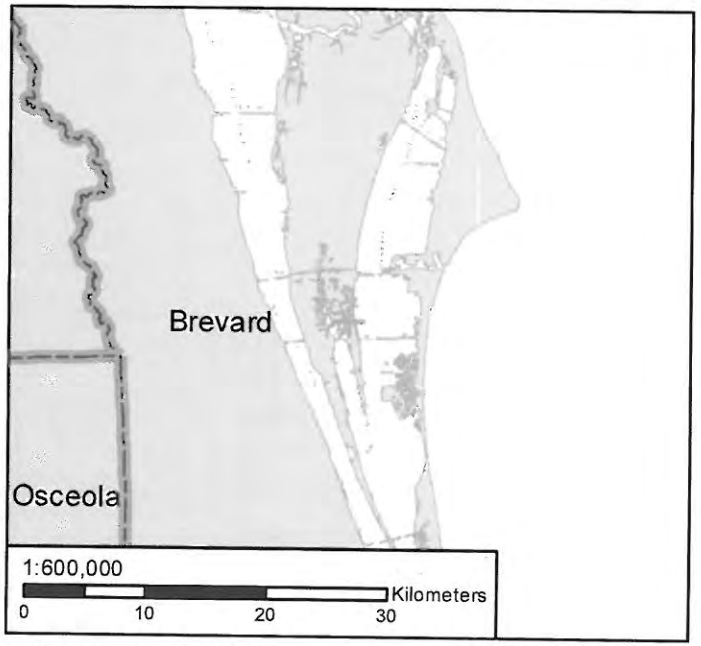
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1307

Rescue Date: 4/24/2013 **Facility ID:** SWFTm1310b Map Created 4/10/2015





Locality Description:
near the seawall behind 770 Hannah Drive.

Latitude: 28.3703°N **Longitude:** -80.66914°W

Resc / D 4/2

Calf log #3
SWA-TM-13-16
REC1307

Szemer, Donna

From: Garrett, Andy
Sent: Thursday, April 25, 2013 8:12 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Guy, Kayla; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

The 93 cm manatee in Merritt Island was caught and transported to Sea World.

Update: Unfortunately the small manatee calf rescued from Bayboro Harbor (St. Petersburg) in March passed away Sunday night at Lowry. The necropsy was conducted on Monday morning at the MMPL. Significant findings from the necropsy included:

- Peanut-shaped head
- Flat ventrum
- Healing cold stress lesions
- Depleted, serous fats
- Congested mesenteries, small intestine serosa
- Fibrin coating abdominal organs
- Torn cecum with blood clot
- Discolored colon serosa
- Adhered colon

From: Garrett, Andy
Sent: Wednesday, April 24, 2013 2:22 PM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Art Yerian'; Barlas, Margie; Baxter, Kevin; 'Bill Hughes'; 'Boyd Blihovde'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Courtney Edwards'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Grunwald, Robin; Guy, Kayla; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Michael Lusk'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Quigley, Wendy; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; 'Stefanie Barrett'; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie
Cc: Carpenter, Guy M.; Flewelling, Leanne
Subject: Rescue Alert and Update

Merritt Island:

ECFL staff are currently on scene with a very small neonate manatee. The manatee appears thin, is covered with algae, has some cold stress lesions, and is bobbing at the surface. Two adult manatees have been observed nudging the calf. One has been confirmed to be a male. The gender of the other adult is unknown. The adult manatees have been observed swimming away from the calf down a canal, leaving it alone for approximately 5 minutes at a time. No nursing

behavior has been observed. The ECFL is preparing to capture the calf. They will be contacting Sea World in the next few minutes to check if they can receive the calf.

Bokeelia:

An adult female manatee was rescued on Saturday night (April 20th) due to red tide. The manatee was taken to Lowry Park Zoo.

Note: Lowry staff might be able to expand on this note, but I have heard that the manatee recovered in the early hours on Sunday and the supporting floatation was removed and the floor of the rehab tank was dropped a few feet. At this time, the manatee was observed to be somewhat alert and have reasonable buoyancy control. After approximately 4 hours, the manatee began having seizures again. The tank floor was raised and floatation was necessary to support the manatee again. I'm not sure how long the manatee was in the supporting floatation the second time, but she is currently swimming under her own power.

Report of a Dead Manatee

DEATH 4-29-13

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1310b**
Date of Report: 2013-Apr-30
Filed By: SeaWorld Orlando

FWC Case # 4485 **FWC Region:** NE

Sex: Male **Length:** 93 **cm** **Weight:** 13.9 **kg**

DATE REPORTED: 2013-Apr-30 **By:** SeaWorld Orlando to MMPL
DATE COLLECTED: 2013-Apr-29 **By:** SeaWorld Orlando
DATE NECROPSIED: 2013-Apr-30 **By:** SeaWorld Orlando

LOCATION: **State:** FL **Latitude:** 28.3703 **N**
County: Brevard **Longitude:** -80.66914 **W**
Waterway: Sykes Creek
Locality description: Merritt Island, near the seawall behind 770 Hannah Drive.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Perinatal (<= 150 cm)

EXPLAIN: Natural: Orphaned/Abandoned Calf; Abscesses; Fibrin in abdomen; Hemorrhage on GI serosa; Ulcers in colon mucosa.

PHOTOGRAPHS TAKEN: Lateral, Internal.

MATERIALS COLLECTED:

Genetics, Histology.

DISPOSITION OF MATERIAL: SeaWorld pending distribution.

ADDITIONAL DATA:

Histology report. Rescue report. Genetic analysis.

REMARKS:

PIT tag scan not performed. Died on 29 Apr 2013. Died at 2030 hrs. Died in facility. See rescue report REC1307, rescued on 24 April 2013.. Genetic analysis determined a relational assignment probability of 0.554242 between this manatee and MEC1347.

Page 1&2	14 JUL 2015
Necropsy Report	14 JUL 2015
Lat/Long	14 JUL 2015

Resc/Rel 1/13/14

Rescue Report REC1308

Calf by itself

General

Date of Rescue: 19 May 2013 Date of Initial Call: 19 May 2013 Filed by: A. Spellman

Rescue ID: REC1308 Facility ID: SWFTm1312b Other ID: "Laverne"

FWC Case Number: 5670 FWC Region: NE

Sex: Female Length: 119 cm Estimated: No Weight: 30 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Merritt Island County: Brevard Waterway: Sykes Creek

Latitude (Decimal Degrees): 28.36358° N Longitude (Decimal Degrees): -080.67401° W

Locality Description: against seawall behind 400 Island Dr.

Method of Capture: By hand

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☐ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☒ Orphan
- ☐ Other: (Specify): _____

All Other

Describe: Small calf observed alone under a dock for two days.

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
19 May 2013	At 0845 hrs, FWC-biologist Jaclyn E. Ludema (JEL) received a text alert from FWC NE Dispatch-Orlando regarding a small manatee calf without an accompanying adult manatee. FWC case number 5670 was assigned. The complainant, Barbara Bauer (321-305-4048), had spotted the manatee two days earlier but never saw an adult with it. JEL contacted FWC-volunteer Leo J. Cross (LJC) who lives near the reported location, and requested his assistance

	with verification. LJC and Stephanie Palmer arrived on site by 1115 hrs. LJC confirmed that there was a lone calf under a floating PWC dock behind 400 Island Dr., that it was very small, and that there were no adults in the area. He advised JEL. JEL was responding to another rescue call in Volusia County, so she called her supervisor, FWC-biologist Ann C. Spellman (ACS), for assistance. ACS arrived on site at 1245 hr after picking up the transport truck and necessary rescue gear. Upon arrival ACS assessed the calf and estimated that it was only days old. The calf appeared to be in good condition but should have been with an adult continuously at that age. ACS climbed onto the floating platform and worked the calf out to LJC. The calf gave no resistance to being manipulated until LJC picked it up. At that time, the calf flailed around but LJC was able to maintain his hold. LJC handed the calf to ACS who was on the resident's lawn. The calf was quickly wrapped in a blanket and taken to the transport truck. The calf was transported to SeaWorld Florida in a small pool of shallow water, arriving by 1415 hrs. The calf showed remnants of an umbilical skirt confirming its young age.

PARTICIPANTS:

FWC EC: A. Spellman
FWC volunteers: L. Cross and S. Palmer

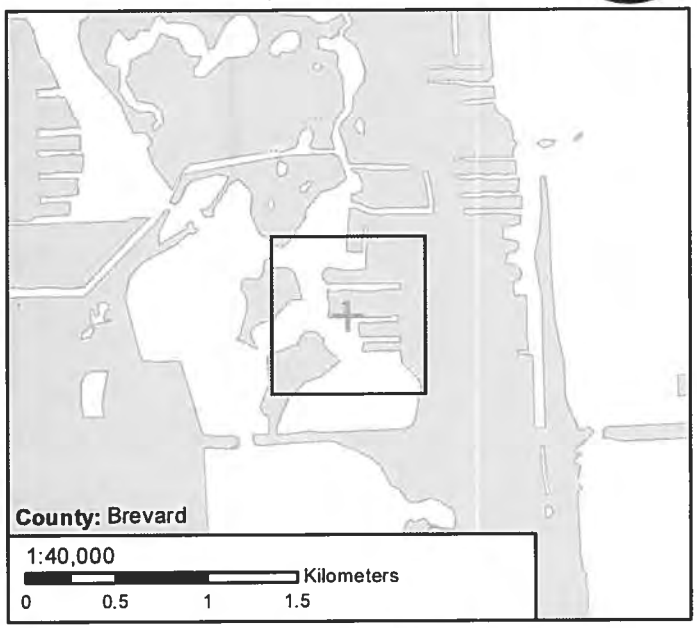
Edited by:

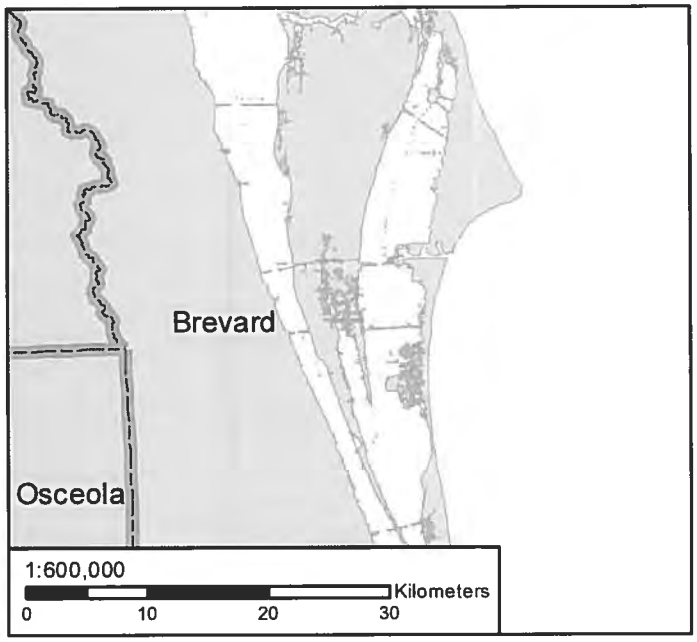
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1308

Rescue Date: 5/19/2013 **Facility ID:** SWFTm1312b Map Created 5/11/2015





Locality Description:
against seawall behind 400 Island Dr

Latitude: 28.36358°N **Longitude:** -80.67401°W

Kesa

Calf by itself

SWFTH13121
REC1308

Szemer, Donna

From: Garrett, Andy
Sent: Monday, May 20, 2013 8:18 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Guy, Kayla; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

Merritt Island: REC1308 119cm - Female Brevard Co. Sykes Creek

Yesterday, staff from the FWC-ECFL rescued a small 3 ft manatee from Merritt Island. Citizens said the manatee had been observed alone all day on Saturday. The manatee was taken to Sea World.

New Smyrna: REC1309

On Saturday afternoon, the ECFL received a report of a manatee swimming on its side and having buoyancy issues. Volusia County staff located the manatee yesterday morning and a rescued team (FWC-ECFL, FWC-NEFL, VC and Sea World) was able to catch the manatee in the afternoon. A Sea World team transported the 7-8 ft manatee back to their park.

7½ft Female Edgewater, Mosquito Lagoon

-Andy.

Orphaned manatee rescued in Brevard

An orphaned manatee calf was rescued Sunday and taken to SeaWorld to be checked out - May 19, 2013.

Last Updated: Monday, May 20, 2013, 11:37 AM

14

MERRITT ISLAND – A Merritt Island woman thought she saw something odd in the water by her home and it turned out to be an orphaned manatee calf.

"I discovered him about two days ago. I got a little concerned when mom wasn't around, so I took it upon myself to call somebody," said Barbara Bauer.

The manatee got stuck in Sykes Creek after it somehow got separated from its mother.

A Fish and Wildlife officer got the manatee out of waterway Sunday and it was taken to SeaWorld to be fed and checked out.

From there, it will likely be returned to the wild.

VIDEO STORIES

- Orphaned manatee rescued from Brevard County

News 13

SWFTM 13.28
REC 1308

Check Road Runner Email
Search
Subm
May 20 3:13:56 PM Temp: 88°
NEWS WEATHER TRAFFIC SPORTS ON THE TOWN COMMUNITY POLITICS BUSINESS LOTTO VIDEO
Brevard Flagler Lake Marion Orange Osceola Seminole Sumter Volusia State National Health Space Español

SWFTM1312B
REC1308

Orphaned manatee rescued in Brevard

Last Updated Monday, May 20, 2013, 11 37 AM

11

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A Fish and Wildlife officer got the manatee out of waterway Sunday and it was taken to SeaWorld to be fed and checked out.

From there, it will likely be returned to the wild

VIDEO STORIES

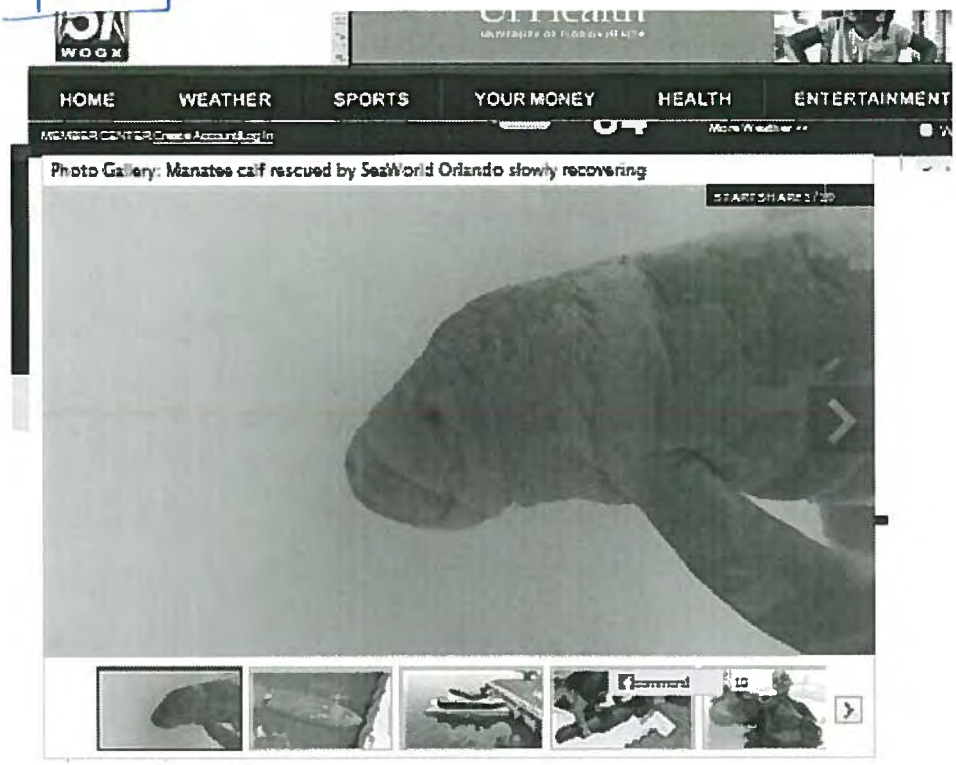
- Orphaned manatee rescued from Brevard County

Fox

"Manatee Calf rescued by SeaWorld Orlando slowly recovering"

Posted: June 14, 2013
Updated: June 21, 2013

SWFTM1312B
REC1308



By Tracy Justin, Anchor -

ORLANDO, Fla. (WOFL FOX 35 ORLANDO) - The story of SeaWorld Orlando's latest manatee rescue began a few weeks ago in the waterways off Merritt Island. A woman spotted a lone calf and called Florida Fish and Wildlife. FWC contacted SeaWorld animal care specialists who rushed to Brevard County to do what they do best.

Now one month old, and slightly obsessive about covering her eyes for some reason, the manatee has grown to 83 pounds and continues to have a healthy appetite.

"They're getting fed every three hours, even through the night," said SeaWorld Animal Care Specialist Brittany Baker as she was bottle feeding the manatee. "You can see the jaw is moving, there's that suckling sound, all good signs. Sometimes they get a little wiggly. Usually, it's because they need to breathe."

Caretakers at SeaWorld haven't named the female calf yet. She's still quite young, rescuers say. Though she's doing great, it's still too early to know if she will survive on her own, they tell us. It's a similar situation with another calf that was recently rescued as well.

Names would only make caretakers' jobs tougher they say, but they're hoping to name them soon once they make it over the hump so to speak.

"We're at the point right now where both calves are doing fantastic, and we're very hopeful," said Assistant Curator Randy Runnells. "But the transition to man-made formula from mother's milk is always a little tough."

The two calves appear to have a special bond, always nuzzling around each other. They are both female, and at times, they try to nurse off of one another. The animal care specialists say are they are still adjusting to life without mom.

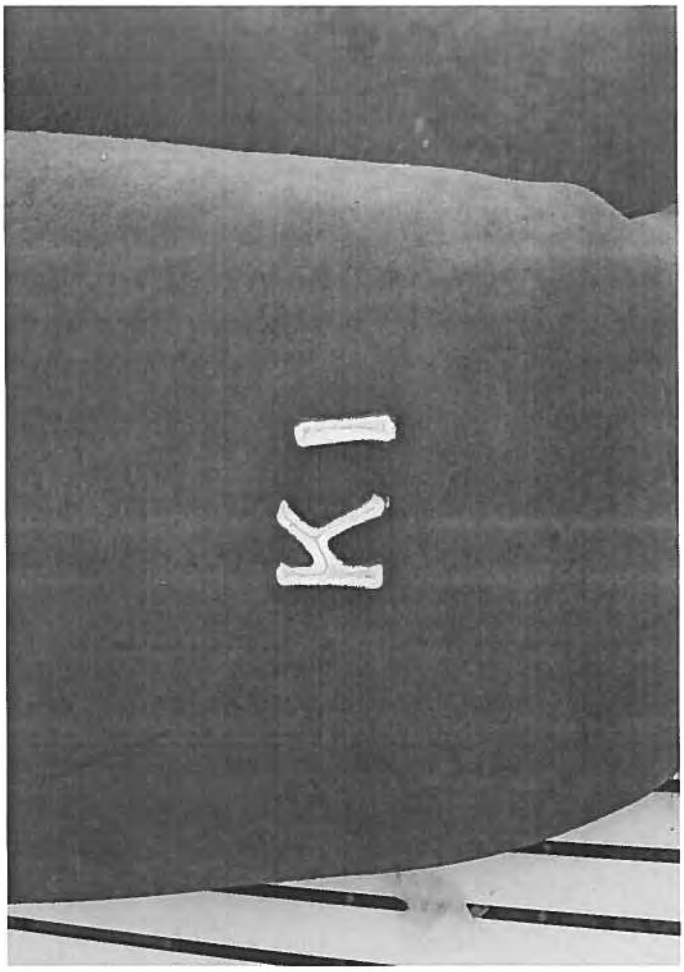
It will take a little time, but eventually, they believe the calf rescued off Merritt Island will make it back into Florida's waterways.

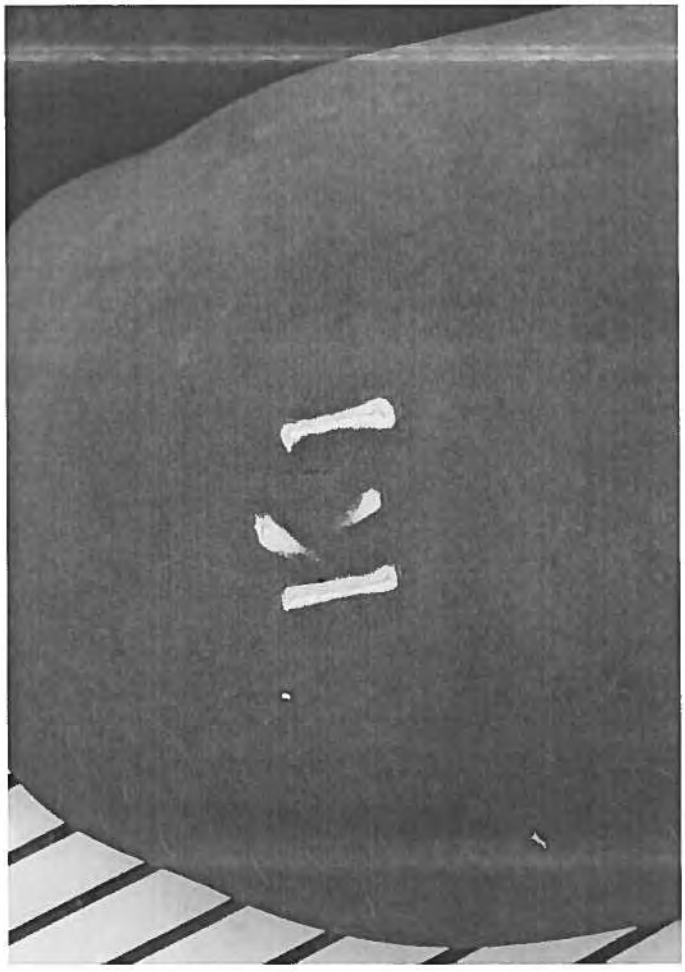
"You're looking at an animal that weighs 2,000 pounds," Baker said. "It's eating 22 pounds of vegetation every day."

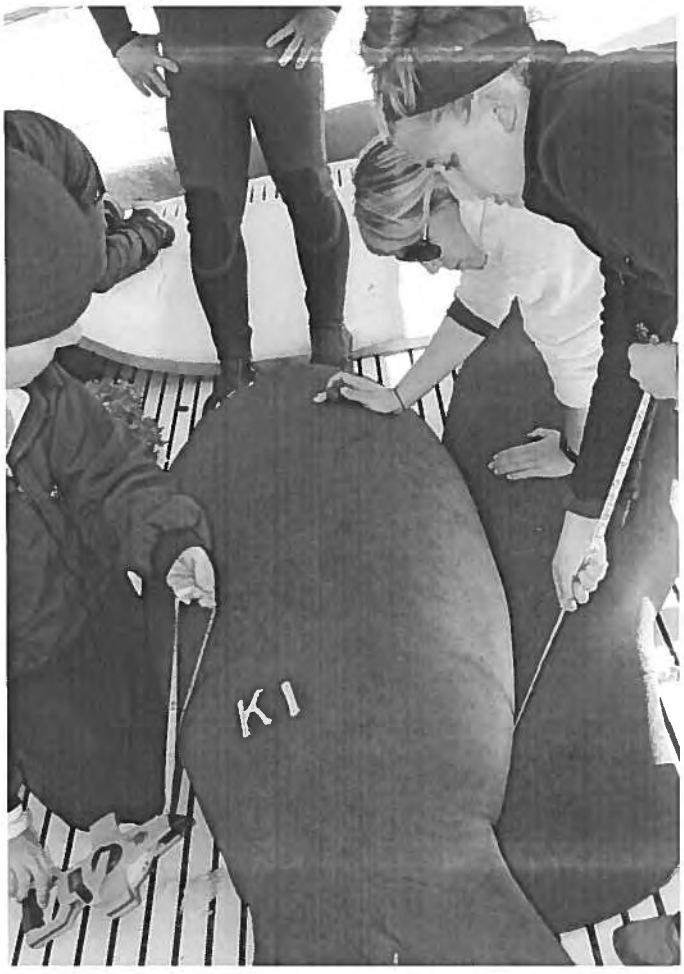
Baker said that the manatees play an important role in Florida's ecosystem, by eating a lot of the vegetation and growth in waterways, and that's one more reason to root for their survival.

SWFTM1312B
REC1308

"Laverne"







Manatee Information (MLog:**1490**)

Animal ID:**SWFTm1312B** Sex:**F** Name:**Laverne** Rearing:**Orphan hand reared**

-- Release Information ----------

Release Date: 01/13/2016

-- Release Location Information ----------

Release Site: Port St John power plant

State: FL **County:** Brevard **City:** Port St John

Waterway: Indian River Intercoastal

-- Measurement ----------

Weight (kg): 294 **Estimated Weight?:** No **Date Weighed:** 01/09/2016

Length (cm): 235 **Estimated Length?:** No **Date Measured:** 01/09/2016

REC1308

-- Other Release Information ----------

Display Water Type: Fresh

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 00

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: Salt water sea grasses

How many months has animal been exposed to vegetation? 03

Tracker:

Veterinarian: Laura Croft

Organization: SeaWorld Florida

Participating Org:

Additional Narrative: Manatee to be belted and tracked by S2S

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 01/14/2016

Updated By: D **Updated Date:** 01/14/2016

Manatee Information (MLog:**1490**)
Animal ID:**SWFTm1312B** Sex:**F** Name:**Laverne** Rearing:**Orphan hand reared**

-- Tag Information ----------
Tag Type: Pit Tag Left **Date Applied:** 11/25/2014 **Tag ID** 000757CE93
Tag ID 000757CE93
Information: Pit tagged in left shoulder with #000757CE93 for future release.
Event: Rescue **Event Date** 05/19/2013
-- Report Information ----------
Created By: Bob Wagoner **Created Date:** 11/27/2014
Updated By: D **Updated Date:** 11/27/2014

-- Tag Information ----------
Tag Type: Pit Tag Right **Date Applied:** 11/25/2014 **Tag ID** 000757C49B
Tag ID 000757C49B
Information: Pit tagged in right shoulder with #000757C49B for future release.
Event: Rescue **Event Date** 05/19/2013
-- Report Information ----------
Created By: Bob Wagoner **Created Date:** 11/27/2014
Updated By: D **Updated Date:** 11/27/2014

Entered
1/22/16
DWS

Captive
&
PIT

Releases

News 13

Cooper
Laverne
Cami

SeaWorld Orlando returns 3 manatees to Banana River

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

By Greg Pallone, Reporter
Last Updated: Wednesday, January 13, 2016, 4:25 PM

PORT ST. JOHN --

Three cold-stressed manatees, including a young calf, are back home in the water after being treated at SeaWorld Orlando for the past several months.

On Wednesday morning, SeaWorld staff released the trio into the warm waters of the Banana River in Brevard County.

Laverne, an orphaned manatee, was rescued by Florida Fish and Wildlife Conservation Commission workers in May 2013 in the Sykes Creek area of Merritt Island.

Cami, an adult, was brought in by workers in late 2014 from a creek in Jacksonville, and Cooper, also an adult, has been treated for cold stress since March 2015.

Laverne got a tag transmitter to track her movements, since she's not experienced in the wild.

"We want to make sure they are feeding, finding the warm water sites, in winter especially. Finding fresh water to drink," said Melody Fischer from Sea to Shore Alliance.

For information on how you can track tagged manatees movements and see their progress, go to manateerescue.org

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/13/seaworld_orlando_ret.html

From: Spellman, Ann
Sent: Friday, January 22, 2016 2:34 PM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>; Cathy Beck <cbeck@usgs.gov>
Subject: Recent Brevard releases info

13 Jan 2016 (Note: HA data and photos done at SWF on ***12 Jan 2016*** by FWC)

REC1308/SWFTm1312B "LAVERNE"

F/ 234 cm (SWF has 235 which reflects the over the top way of measuring them they use- we re-measured it like MMPL does it at LPZ)
650lbs
Freeze brand: K1 (photos attached), otherwise clean, no scars
Location: Port St John, FPL discharge boundary
By: SWF and FWC
~~No telemetry~~ Radio tagged by S2S.
PIT: R#: 00-0757-~~4FA8~~ C49B L#: 00-0757-CE93

Radio tagged - S2S.

REC1528/SWFTm1524B "CAMI"

F/232cm
650lbs
Freeze brand: N/A No scars, clean
Location: Port St John, FPL discharge boundary
By: SWF and FWC
~~Telemetry gear attached by S2S~~ ?
PIT: R#: 00-075A-~~C49F~~ 4FA8 L#: 00-075D-FBDB

RNE~~1408~~ 1407/SWFTm1411B "COOPER"

M/242cm
Freeze brand: N/A No scars, clean
Location: Port St John, FPL discharge boundary
By: SWF and FWC
PIT: R#: 00-075A-4839 L#: 00-06E7-7BFA

Cathy-do you want the photos/sketches of Cami and Laverne if there are no scars?
This week's releases to follow in next email ☺

Ann

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: REG1308/SWPTM1312B Capture ID: NA Data Recorder: A. Spellman (FWC)

Name: "Laverne" Date: 12 January 2016

ID of its Calf / Mom: NA Sex: M / (F)

CAPTURE Rescue 2013
Location: Silver Creek, MI
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE 13 Jan 2015
Location: Port St. John / FPL
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: _____

EVENT: ____Capture ____Rescue ✓ Pre-release Assess. ____Release ____Post-release Assess.

Workup Site: Air Temp = 60° C (F) Wind: 7 mph ___ Cloud Cover: (S) PC MC O R

MORPHOMETRICS	Weight: (lb) or kg) 650	Manatee + stretcher NA	Stretcher weight NA
Lengths	Total Length (curvilinear) (cm)	262	
	Total Length (straight)	234 (235 in SWF record)	
	Snout to Peduncle	162	
	Snout to Anus	141	
	Snout to Umbilicus	80	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: 104 in (264 cm)
	Girth at Anus: actual or ½	141	
	Girth at Umbilicus: actual or ½	170	
	Girth at Axilla: actual or ½	NT	

ULTRASOUND NT	Reader Name: NT			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	A. Spellman
	Clinical Assessment Data Sheet?	Y / (N)

REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating?	Y / (N)

MONITORING	Heartrate: Stethoscope EKG Doppler None	**Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

FREEZE BRAND	Letters/Numbers applied: K1	Applied by: USGS
	Location(s): Shoulders + peduncle	

Form Revised: 6 December 2012

Manatee ID: REG1308/SWFTM13128 Capture ID N/A Date: 12 January 2016

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	

SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze
Urine?	Y / N	Refrig / Freeze / EtOH
Fecal?	Y / N	Freeze / EtOH
Skin Scraping?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Skin Biopsy?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Tail Cookie?	Y / N Location: _____	Freeze / / DMSO
Mucosal Swab?	Y / N Oral / Rectal	Refrig
Other?	Y / N Tear Film / _____	Freeze /

PIT TAG	Scanned for previous PIT tag?	(Y) / N PIT tagged at this capture? (Y) / N
	PIT tagged by:	Seewasud
	Right #	0 0 - 0 7 5 7 - C 4 9 B
	Left #	0 0 - 0 7 5 7 - C E 9 3

TELEMETRY	Tag Type	Argos-GPS / PTT / VHF
SEE SLS **TAG**	Tag ID#	
Melody	Tag / Antenna Color(s)	Tag: orange + green Antenna: yellow
Fisher	VHF Frequency	164._____ MHz
for tracking data	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec
BELT	ID# / Size / Color	FWC_____ Length: _____in. Color:
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec
	Belt Knot / Webbing Exposed	Left / Right _____ inches
	CR2a Programmed Release	Y / N Date/Time:

LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			

TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.
	Tagged by: Melody Fischer	
PHOTOGRAPHS	Taken by:	Bill Green (FWC)
	Exposures:	FWC070-2016_01_12 7566, 7574-7590
SKETCHES	Sketched by:	Ann Spellman (FWC)

COMMENTS "KA" freeze brand, no visible scars

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: MEC16019
Date of Report: 2016-Feb-15
Filed By: FWC MMPL

FWC Case #
FWC Region: NE

Sex: Female **Length:** 250 **cm** **Weight:** 226.0 **kg**

DATE REPORTED: 2016-Feb-15 **By:** Sea-to-Shore-Melody Fisher to FWC-ACS

DATE COLLECTED: 2016-Feb-15 **By:** FWC-ACS,WDG

DATE NECROPSIED: 2016-Feb-16 **By:** MMPL-MdW,ALP,GLL,DJS

LOCATION:
State: FL **Latitude:** 28.46891 **N**
County: Brevard **Longitude:** -80.76161 **W**
Waterway: Indian River
Locality description: Port St. John, grounded near the southern FPL warm water discharge, 250 m NNE of 101 Cottrell Ave

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Natural: Cold Stress

EXPLAIN: Flat ventrum; Longitudinal folds; Bleached epidermis; Abscess(es); Wet lung(s); Necrotic, ulcerating cold stress lesions with thickened, sloughing epidermis; Discolored lungs; Fluid, mucus in airways; Enlarged T-septal lymph nodes, liver; Darkened lymph nodes; Relatively empty, fluid-filled GI tract; Congested mesenteries, fat, peritoneum, parietal pleura, GI wall, meninges, kidney; Nodules in duodneum diverticulum; Sediment in upper GI tract.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal, Other (lesions, freezebrand).

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology, Partial skeleton (D. Ingle samples: T7-T11; T17, L1-L3, Ca1-Ca9.). Melanie Langford samples-Stomach wall greater and lesser curvature, feces. H. Hyrosdick samples-heart, blood, feces, liver, cerebrum, eye. UF microbiology-Skin abscess, lung abscess.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Bacteriology report. Histology report.

REMARKS:

PIT tag scan positive (Left: 00-0757-CE93; Right: 00-0757-C49B). Freezebrand positive, "K1". Known as "Laverne", SWFTm1312b, REC1308. Rescued as an orphaned calf on 19 May 2013.

Page 1&2	24 Jan 2017
Necropsy Report	24 Jan 2017
Lat/Long	24 Jan 2017

Resc/Rel 12/5/13

Rescue Report REC1309

Watercraft

GENERAL

Date of Rescue: 19 May 2013 Date of Initial Call:18 May 2013 Filed by: Jaclyn Ludema

Rescue ID: REC1309 Facility ID: SWFTm1313b Other ID: Dorothy-Gail

FWC Case Number: 5649 FWC Region: NE

Sex: Female Length: 229 cm Estimated: No Weight: 286 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: N/A L: N/A

State: FL City: New Smyrna Beach County: Volusia Waterway: Mosquito Lagoon

Latitude (Decimal Degrees): 28.94633° N Longitude (Decimal Degrees): -80.84382° W

Locality Description: Turner's Flats, 485 m W of JB's Fish Camp at 859 Pompano Ave

Method of Capture: Open water net set from capture boat

Dth MNE15034 9/5/15

REASON FOR RESCUE

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☒ Penetrating Cuts ☒ Impact ☐ Other

Describe: Suspect pnuemothorax of the right lung. Linear wound across lower back.

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
18 May 2013	At 1828 hrs, FWC biologist Nadia J. Gordon (NJG) received an on-call text alert from FWC NE Dispatch-Orlando regarding an injured manatee in the Mosquito Lagoon. FWC case number 5649 was assigned. The complainant,

	Kelly (407-968-1590), had observed the manatee in a cove by 6667 Engram Road in New Smyrna Beach. She stated that the manatee had been floating on its side for more than an hour. After speaking to the complainant, NJG requested assistance from Volusia County Stranding Network (VCSN) Trey Hanna (TH). TH contacted VCSN Volunteer Cindy Lewis (CL) and requested she respond to the scene. At 1955 hrs, CL arrived at the manatee and reported to NJG that the manatee seemed to be sitting level in the water, but its tail was sitting perpendicular to the surface of the water. NJG passed the information to TH and FWC biologists Ann C. Spellman (ACS), Christine N. Rush (CNR), and Jaclyn E. Ludema (JEL).
19 May 2013	At 0815 hrs, TH contacted JEL and informed her that he was heading to New Smyrna Beach to search for the animal. JEL contacted SeaWorld Florida Steve Lehr (SL) and asked if Sea World could assist with a rescue and be able to house the animal. SL informed her that he did not have a full rescue crew that day, but would have one the following day. JEL contacted NJG and asked her about the NE Field Lab's (NEFL) availability that week to assist with the rescue. NJG informed her that she could bring the rescue boat to New Smyrna Beach that day if JEL could assemble a rescue team. The NEFL would also be available to assist the rest of the week. JEL contacted FWC biologist Andy J. Garrett (AJG) and requested permission to tag the animal. JEL explained the rescue plan, and AJG granted her request to tag. At 0943 hrs, TH called JEL and informed her that the manatee was still swimming in the same cove where it had been reported the night before. At 1011 hrs, JEL contacted NJG and requested rescue assistance. JEL then contacted SL to request a Sea World transport crew and TH to assemble as many VCSN volunteers as possible. At 1145 hrs, JEL met TH in New Smyrna Beach and he directed her to the manatee At 1316 hrs, NJG and FWC volunteer Ivanna Espinosa (IE) arrived at the private boat ramp off Ladyfish Road and launched the rescue boat. At 1322 hrs, SWF Victor Marsich (VM) contacted JEL and informed her that the transport crew was an hour away. NJG arrived to the cove, and JEL, TH and the VCSN volunteers got onto the boat. NJG circled the distressed manatee to set the net, but there were multiple other manatees swimming around it. NJG and JEL decided to attempt a land set from the beach where the manatee frequented. JEL swam to the manatee and attempted to lead it towards the beach, but the manatee spooked and kept its distance from the land set. At 1440 hrs, the Sea World transport crew arrived on scene. At 1445 hrs, JEL decided to attempt to tag the manatee, as it was approachable, although not receptive to directing. After attempting to tag the manatee several times, the manatee spooked and began to swim out into the channel. JEL followed the manatee to the Turner Flats, and NJG, the rescue team, and members of the transport crew followed. JEL got on the boat, and they all followed the manatee to a calm, shallow cove.

	At 1545 hrs, the net was set and the manatee was pulled onto the boat and taken to the boat ramp. At 1610 hrs, the manatee was loaded into the Sea World transport truck and transported to the park.

PARTICIPANTS

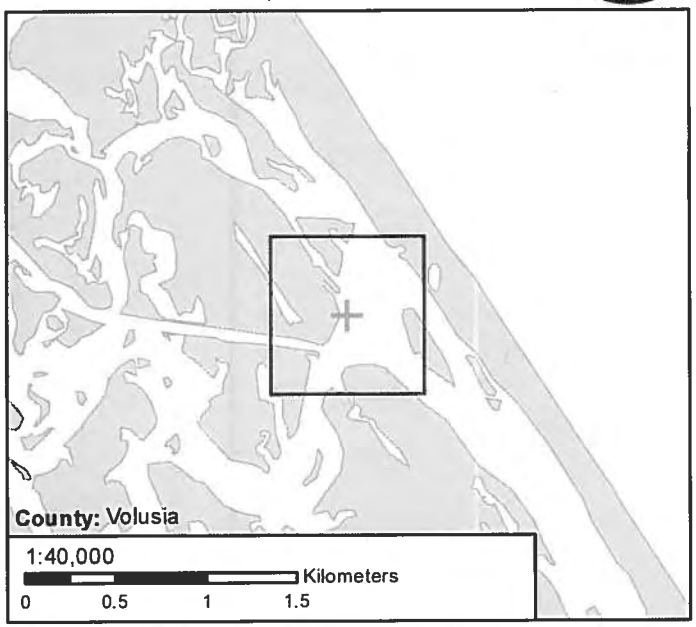
FWC EC: J. Ludema
FWC NE: N. Gordon
FWC Volunteer: I. Espinosa Volusia County Stranding Network
Sea World Animal Care Staff

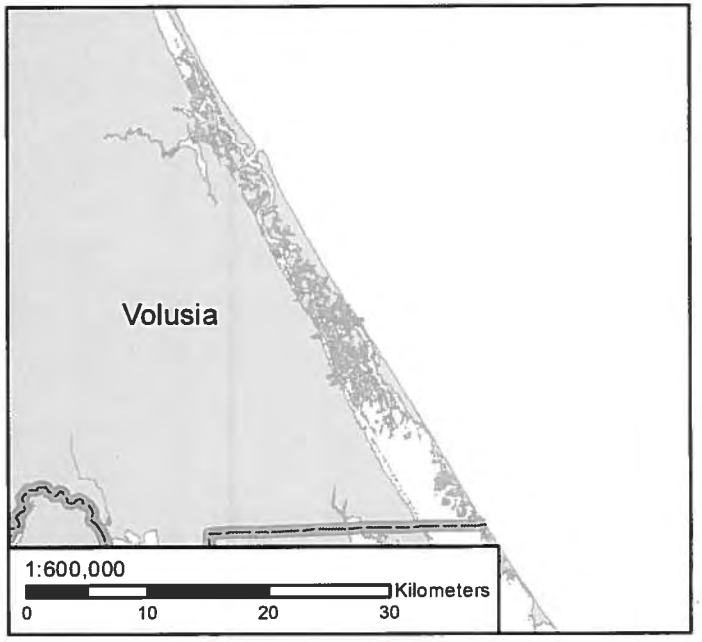
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1309

Rescue Date: 5/19/2013 **Facility ID:** SWFTm1313b Map Created 5/11/2015





Locality Description:
Turner's Flats, 485 m W of JB's Fish Camp at 859 Pompano Ave

Latitude: 28.94633°N **Longitude:** -80.84382°W

Rescue

Watercraft

Szemer, Donna

SWFTM1313

From: Garrett, Andy
Sent: Monday, May 20, 2013 8:18 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Grunwald, Robin; Guy, Kayla; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

REC1308

Merritt Island: 119cm Female

Yesterday, staff from the FWC-ECFL rescued a small 3 ft manatee from Merritt Island. Citizens said the manatee had been observed alone all day on Saturday. The manatee was taken to Sea World.

Sykes Creek
Brevard Co.

REC1309

New Smyrna:

On Saturday afternoon, the ECFL received a report of a manatee swimming on its side and having buoyancy issues. Volusia County staff located the manatee yesterday morning and a rescued team (FWC-ECFL, FWC-NEFL, VC and Sea World) was able to catch the manatee in the afternoon. A Sea World team transported the 7-8 ft manatee back to their park.

~7½ft. Female
Edgewater
Mosquito Lagoon

-Andy

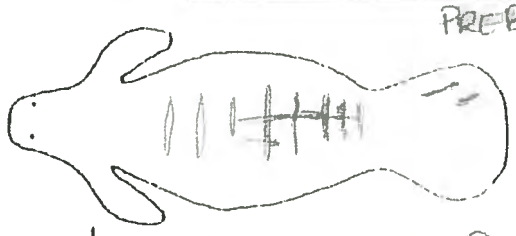
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 26 JUNE 2013 **Location:** SWF

Observer Code(s): SPELLMAN, CNR, JBC **Sighting Times:** _____ - _____

PRE RELEASE HEALTH ASSESSMENTS

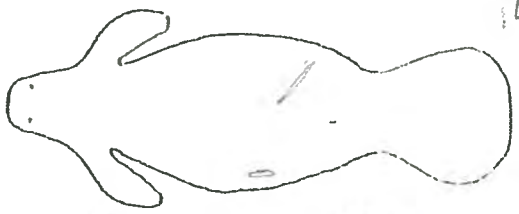


Field ID: 1 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7264-7279
TL= 216cm WT= 880# REC 1216
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "LACES" SWFTM1214b
PIT (L): 00-074E-C034 / (R): 00-0740-A04D
SCHEDULED FOR RELEASE

whitepatch on chest (ventrum)

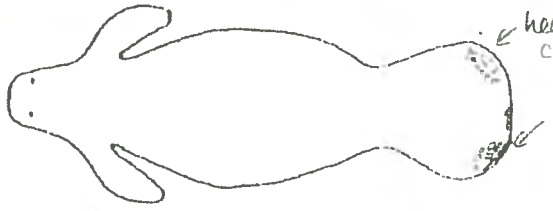
Field ID: 4 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7299-7318
TL= 254 WT= 775#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "NITTY" SWFTM1219/REC1222
PIT (L) 00-074F FE72 (R) 00-0729-1516
SCHEDULED FOR RELEASE
⇒ Rel. 7/18/13

Field ID: 0 **Size:** (CC) _____ SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7280-7291
TL= NT WT= 585#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: REC1301 / SWFTM1313
NOT PIT TAGGED YET
NOT SCHEDULED FOR RELEASE



Field ID: 5 **Size:** (CC) 216 SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7314-7322
TL=216 WT= 400#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "Asaha" SWFTM1307B/REC1303
PIT (L) 00-06E36D23 (R) 00-074F-BB1A
SCHEDULED FOR RELEASE ⇒ Rel 7/18

Field ID: 3 **Size:** (CC) 184cm SU AA
Calf: WC WC? **Why:** _____
Sex: M (F) **How determined:** V NC
Exposures: FWC025-2013-06-26: 7292-7298
TL= 169 cm WT= 240#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "ABIGAIL" SWFTM1308/REC1304
NO PIT TAGS YET HEALING CS lesions
NO SCHEDULED FOR RELEASE



Field ID: 6 **Size:** (CC) - 232cm SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: FWC025-2013-06-26: 7323-7329
TL= 232 WT: 440#
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "BRAILLE" SWFTM1218/REC1221
PIT (L) 00-074F-0C85 (R) 00-074F-DFEO
SCHEDULED FOR RELEASE
SAMPLES: SPELLMAN ⇒ Rel. 7/18/13

Other Comments: PHOTOGRAPHER: CNR

Szemer, Donna

From: Garrett, Andy
Sent: Monday, December 02, 2013 12:16 PM
To: Szemer, Donna
Subject: FW: Releases a go for tomorrow and Thursday.

SWFTH1313B
REC1309

fyi

-----Original Message-----
From: Spellman, Ann
Sent: Monday, December 02, 2013 12:07 PM
To: Baxter, Kevin
Cc: Garrett, Andy
Subject: Releases a go for tomorrow and Thursday.

Hi again Kevin-
So tomorrow we are a go to release an 800+lb manatee that we rescued in Melbourne back in April for a watercraft strike to the head. We hope to have some of the FLA TECH football team/staff on hand to assist with the release as they helped us carry the manatee to the transport truck the day of the rescue- nice local human interest story. As far as I know SWF is doing a press release. We will get GoPro video and photos for you if you like. Time of SWF arrival :0930-1000h

Thursday- a manatee named Dorothy-Gail, rescued May 19th in the Mosquito Lagoon will be released in Titusville at Parrish Parkk boat Ramp. At Chip's request she will go out w/ a satellite tag as part of our winter captures study. She is 600+lbs and about 3 years old. Margie will be coming over to tag her. We will also have GoPro form this and photo. SWF will do a press release on this as well, I believe. Time of SWF arrival :0930-1000h

Released 12/5/13

Call if you need any additional info. :) Cheers, Ann

Ann C. Spellman
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission Indian River Field Lab
1220 Prospect Ave., Ste 285
Melbourne, FL 32901
Phone: 321-953-5037
Fax: 321-984-4824

Ann.Spellman@MyFWC.com

www.MyFWC.com

Life isn't about waiting for the storm to pass, it's about learning to dance in the rain.

Szemer, Donna

From: Spellman, Ann
Sent: Monday, December 09, 2013 12:22 PM
To: Szemer, Donna; cbeck@usgs.gov
Subject: "Dorothy-Gail" ReleaseSWFTm1313
Attachments: FWC025_2013-12-05_8467.JPG; FWC025_2013-12-05_8476.JPG

Date: 05 December at Parrish Park in Titusville, IRL, Brevard County

PIT Tags: R: 00-074D-8630/ L: 00-074F-263E by SWF
232 cm, 645lbs, female
AKA: TCB-091 Tagged by Margie as part of Brevard winter study

SWFTM1313B
REC1309
"Dorothy-Gail"

WESH.com

SWFTM13138
REC1309

Manatee named Dorothy Gale released in Titusville

Dorothy Gale rescued in May

UPDATED 6:12 PM EST Dec 05, 2013

TITUSVILLE, Fla. -

A manatee named Dorothy Gale swam off in good health on Thursday in Titusville after being rescued and rehabilitated.

The Indian River Lagoon, where the manatee was released, is also showing signs of improving health.

The manatee was named after the lead character in "The Wizard of Oz" because she would swim in spirals, like a tornado, when she was first brought to SeaWorld.

Dorothy is back up to 680 pounds after seven months of care and feeding. She was found near New Smyrna Beach in the Mosquito Lagoon in May, showing signs of cold stress and signs of injury from a boat strike.

At the time, she was not able to swim properly.

A large number of manatees have died in the lagoon this year, but the die-off seems to have ended.

Dorothy is wearing a collar on her tail that carries a floating antenna. That'll allow biologists to track her over the winter until the collar releases itself in March.

Related: Endangered animals of Florida

Images: See Florida's endangered species

FLORIDATODAY.com

SWFTM1313B
REC1309

December 5, 2013

Two manatees recover from injuries, released to Space Coast waters

Jim Waymer
FLORIDA TODAY

SeaWorld returned two female manatees into Space Coast waters this week, after the animals recovered from watercraft-related wounds.

On Thursday morning, rescuers returned a 3-year-old female manatee calf to waters at Parrish Park in Titusville, according to a SeaWorld media release. The manatee, named Dorothy-Gail, had been rescued this past May from New Smyrna Beach's Mosquito Lagoon by state wildlife officials and SeaWorld Orlando's Animal Rescue Team.

Dorothy-Gail suffered from watercraft-related injuries and was transported to SeaWorld Orlando where the animal received antibiotics, fluids, radiographs and other supportive care. The manatee gained 15 pounds during rehabilitation, and now weighs 645 pounds, SeaWorld officials said.

On Tuesday, SeaWorld's rescue team returned a 5-year-old female manatee, named Vesuvia, to the waters at Front Street Park in Melbourne.

The 855-pound sea cow had been rescued in April by the Florida Fish and Wildlife Conservation Commission, with help from Florida Tech's volleyball coach and several FIT football team coaches. The manatee also had been hit by a boat. FIT's volleyball coach had spotted the injured manatee while jogging over Melbourne Causeway.

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MNE15034**
Date of Report: 2015-Sep-05
Filed By: FWC NE Field Station

FWC Case # 9941 **FWC Region:** NE

Sex: Female **Length:** 280 **cm** **Weight:** Not Taken **kg**

DATE REPORTED: 2015-Sep-05 **By:** Citizen to FWC NE Dispatch

DATE COLLECTED: 2015-Sep-06 **By:** FWC-ACP

DATE NECROPSIED: 2015-Sep-06 **By:** FWC-ACP

LOCATION: **State:** FL **Latitude:** 29.02621 **N**
County: Volusia **Longitude:** -80.91224 **W**
Waterway: Indian River
Locality description: New Smyrna Beach, floating behind 41 Richmond Drive.

CONDITION: Badly Decomposed

PROBABLE CAUSE OF DEATH: Undetermined: Too Decomposed

EXPLAIN: The advanced stage of decomposition did not permit a causal factor to be determined. Autolyzed and/or missing internal organs. Wet, slightly bloody lungs.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone.

DISPOSITION OF MATERIAL: FWC NE Field Station pending distribution.

ADDITIONAL DATA:

REMARKS:

PIT tag scan positive (Left: 00-074F-263E; Right: 00-074D-8630). A field necropsy was performed. Known as "Dorthy-Gail", REC1309, SWFTm1313b. Tunicates in stomach contents. Healng wounds.

Page 1&2	26 Aug 2016
Necropsy Report	26 Aug 2016
Lat/Long	26 Aug 2016

Rescue
7/10/13
release
2/20/14
Calf by itself

Rescue Report

REC1310

General

Date of Rescue: 06 July 2013 Date of Initial Call: 02 July 2013 Filed by: Christine N. Rush

Rescue ID: REC1310 Facility ID: SWFTm1314b Other ID: "Squiggy"

FWC Case Number: 7861, 8026 FWC Region: NE

Sex: Male Length: 110 cm Estimated: No Weight: 16 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Merritt Island County: Brevard Waterway: Sykes Creek

Latitude (Decimal Degrees): 28.38461° N Longitude (Decimal Degrees): - 080.69363° W

Locality Description: behind 315 Diana Blvd.

Method of Capture: Hoop net from a dock.

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☐ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☒ Orphan
- ☐ Other: (Specify): _____

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
02 July 2013	At 1316 hrs, FWC biologist Ann C. Spellman (ACS) received a text alert from FWC NE Dispatch-Orlando regarding an orphaned manatee in Cocoa Beach. FWC case number 7861 was assigned. The complainant, Greg Marks (321-432-4738), had noticed a very small manatee by itself in a cove behind his residence at 310 Kent Drive. The complainant described a brown, hairy, skinny, two and a half foot manatee with no adult in the area. ACS and FWC biologist Christine N. Rush (CNR) arrived at the scene and searched the area, but were unable to locate it.

06 July 2013	At 0859 hrs, CNR received a text alert from Dispatch regarding a manatee with three "babies" in Merritt Island. FWC case number 8026 was assigned. The complainant, Wendy (321-637-8156), informed CNR that she was definite that it was a mom with three babies and sent CNR a picture text message. CNR contacted the complainant again and requested that she keep an eye on the manatees since it did look like one needed to be rescued. CNR contacted FWC Andy J. Garrett (AJG). She then contacted SeaWorld-Randy Runnells (RR) to verify that Sea World could accept an orphaned calf. CNR then contacted FWC Volunteer Daniel J. Rush (DJR) to pick up the transport truck and drive it to Merritt Island since CNR was already out on another field call. CNR contacted FWC volunteer Angela R. Preston (ARP) and requested that she also respond to the scene to help the complainant monitor the manatees. ARP borrowed a kayak from a neighbor to follow the manatees since they were on the move. CNR arrived on scene and photographed the mom with twins and the orphan along the sea wall. Once DJR arrived, a baby pool was inflated and filled with water and the hoop net was placed on the lawn. After moving from one side of the canal to the other, the manatee group attempted to leave the canal system. ARP headed them off in the kayak and spooked them back towards CNR and DJR. CNR and DJR were able to scoop up the orphan with the hoop net from the dock behind 315 Diana Blvd. The manatee was placed on a blanket and put into the baby pool in the back of the transport truck. CNR contacted AJG and RR to inform them of the capture. The manatee was transported to Sea World by DJR, ARP, and a day volunteer Danielle Stevens.

PARTICIPANTS

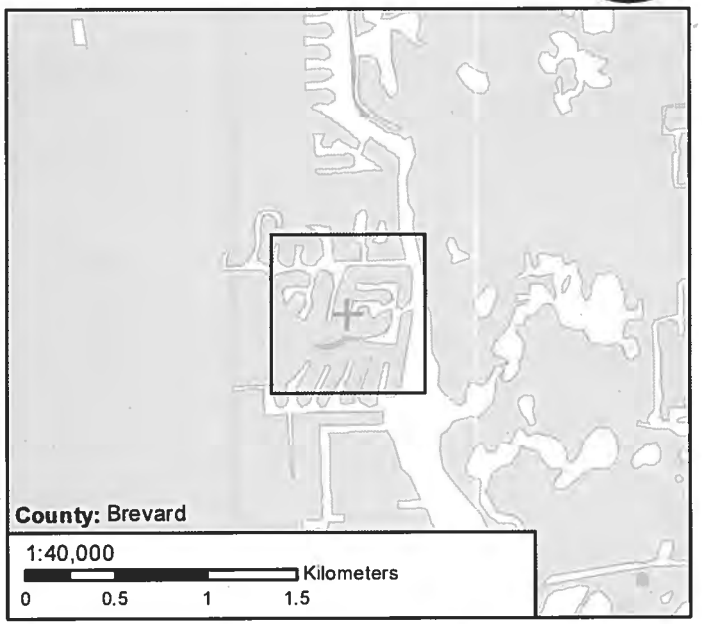
FWC: C. Rush
FWC Volunteers: D. Rush, A. Preston, D. Stevens

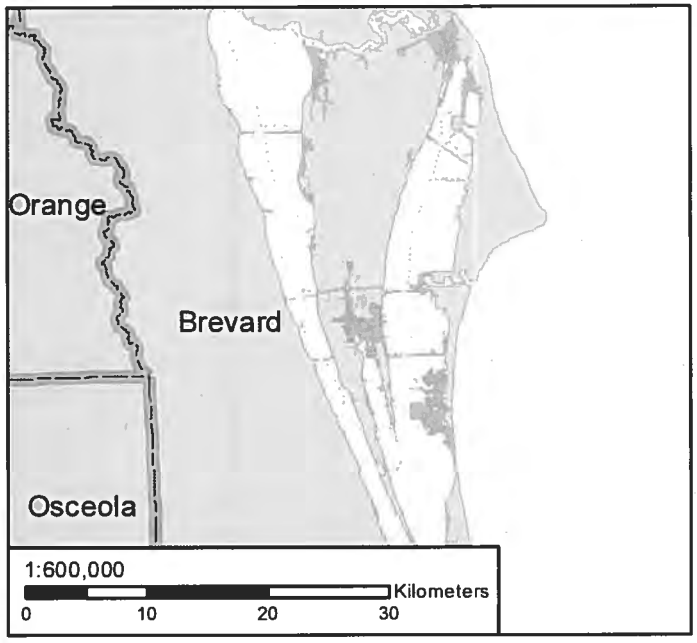
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1310

Rescue Date: 7/6/2013 **Facility ID:** SWFTm1314b Map Created 6/26/2015





Locality Description:
behind 315 Diana Blvd

Latitude: 28.38461°N **Longitude:** -80.69363°W

Resa

Calf by itself

Entered 7/29/13

Szemer, Donna

REC1310
SWFTM13146

From: Garrett, Andy
Sent: Monday, July 08, 2013 8:23 AM
To: Adrienne Atkins; Amy Teague; Art Yerian; Barlas, Margie; Baxter, Kevin; Bill Hughes; Boyd Blihovde; Buddy Powell; Knox, Carol; Cathy Beck; Courtney Edwards; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Michael Lusk; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Cc: Therriault, Kati
Subject: rescue updates
Attachments: IMG950177.jpg

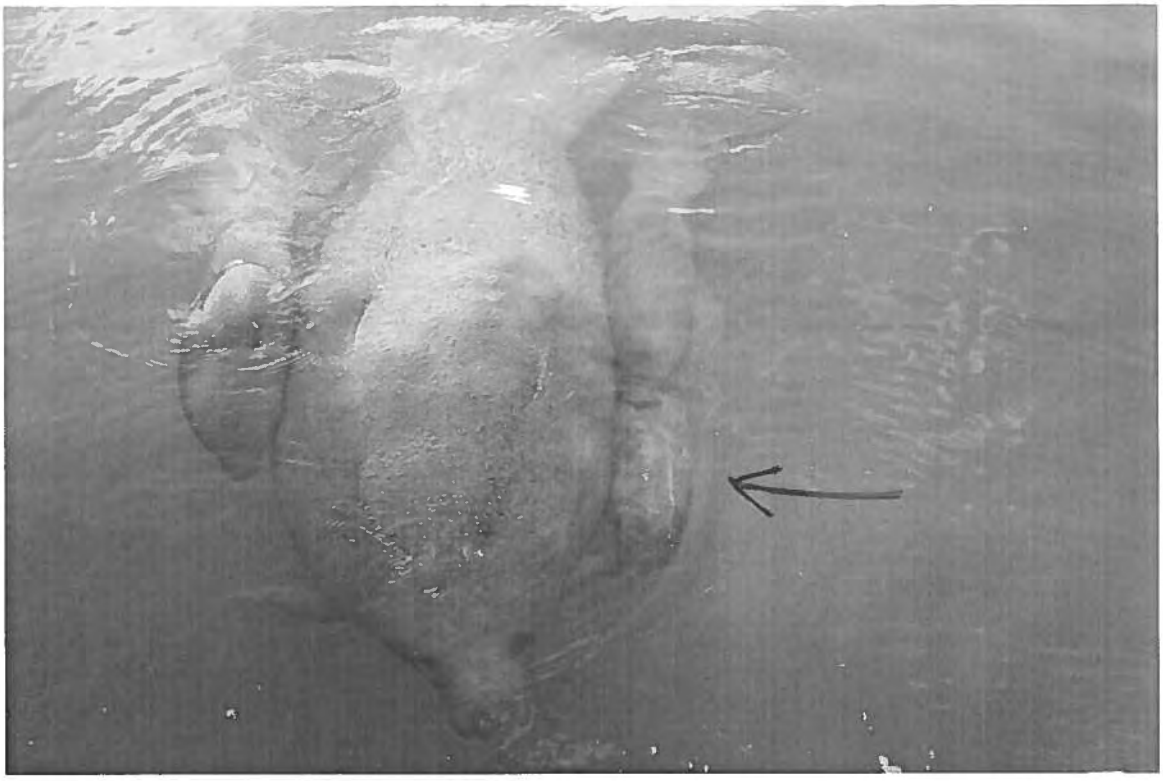
Central East Coast (sorry I forgot the nearest city):

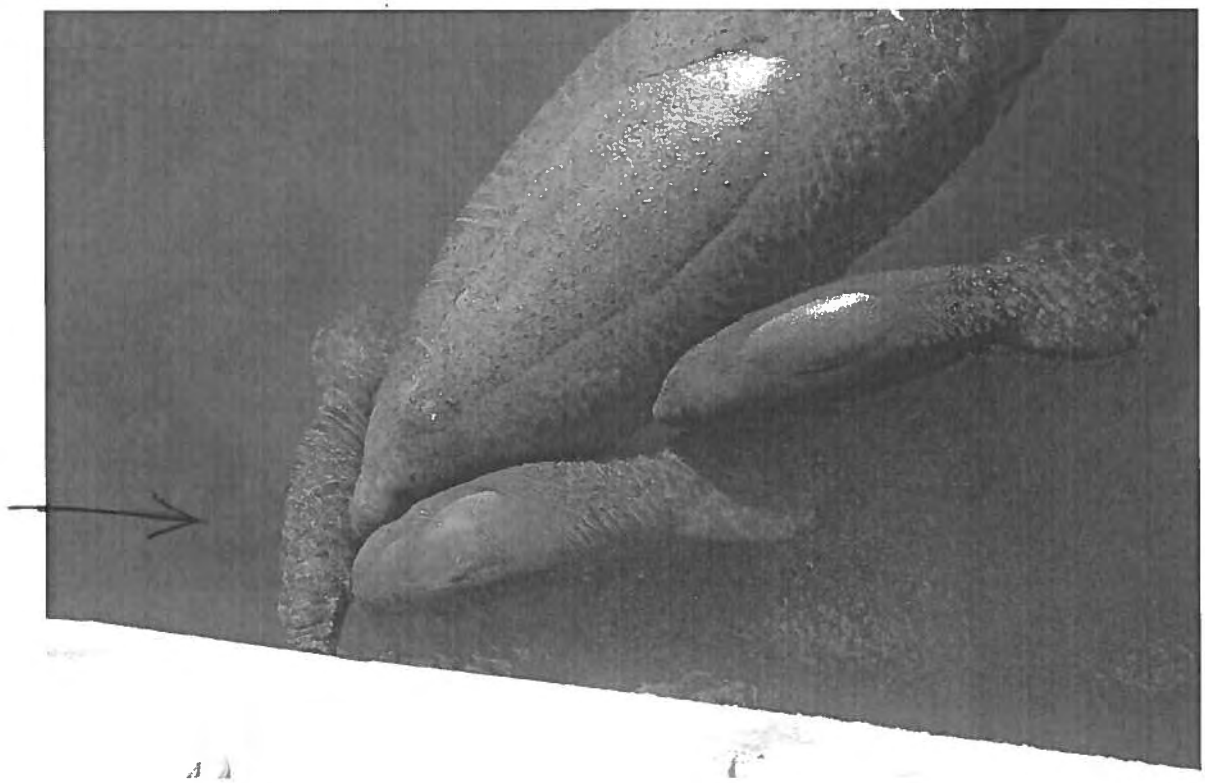
On Saturday, the FWC-ECFL received a call about a possible orphaned calf in their coverage region. When biologists arrived, they observed what appeared to be a cow with healthy twins and a third calf that did not appear to belong to the cow (see photo and note the color differences and overall body condition of the calves). The emaciated calf was captured by ECFL staff and transported to Sea World.

Port Charlotte

A 3 ft orphaned calf was rescued late yesterday afternoon by the FEC-SWFL and transport to Lowry Park Zoo.

-Andy





REC1310

REC1310

Manatee Information (MLog:**1497**)

Animal ID:**SWFTm1314B** Sex:**M** Name:**Squiggy** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Freeze-brand **Date Applied:** 12/23/2015 **Tag ID** V3

Tag ID V3

Information: Animal was FB with V3 in two sites, between the right and left shoulder and just above the peduncle.

Event: Rescue **Event Date** 07/06/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 02/18/2016

Updated By: D **Updated Date:** 02/18/2016

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 11/25/2014 **Tag ID** 00075E04AD

Tag ID 00075E04AD

Information: Pit tagged in left shoulder with #00075E04AD for future release.

Event: Rescue **Event Date** 07/06/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/25/2014

Updated By: D **Updated Date:** 11/25/2014

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 11/25/2014 **Tag ID** 00074EEC43

Tag ID 00074EEC43

Information: Pit tagged in right shoulder with #00074EEC43 for future release.

Event: Rescue **Event Date** 07/06/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/25/2014

Updated By: D **Updated Date:** 11/25/2014

Entered
PIT
&
Captive
DJS
2/29/16

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: CCC1310/SWFTM1314B Capture ID: NA Data Recorder: A Spellman

Name: SQUIGGY Date: 20 Feb 2016

ID of its Calf / Mom: NA Sex: (M) / F

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: FPL-CCEC, Cocoa
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: _____

EVENT: ____Capture ____Rescue ____Pre-release Assess. ✓ Release ____Post-release Assess.

Workup Site: Air Temp = _____ C F Wind: _____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb) or kg) 655	Manatee + stretcher NA	Stretcher weight NA
Lengths	Total Length (curvilinear) (cm)	264	
	Total Length (straight)	245	
	Snout to Peduncle	176	
	Snout to Anus	156	
	Snout to Umbilicus	90	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 105 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	149	
	Girth at Umbilicus: actual or ½	189	
	Girth at Axilla: (actual) or ½	147	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other: NT	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 (4) 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	A Spellman, M Ross (SZS)
	Clinical Assessment Data Sheet?	Y / N

REPROD. STATUS	Pregnant? Y / (N) Describe: Male	
	Lactating?	Y / (N)

MONITORING	Heartrate: Stethoscope EKG Doppler (None)	**Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y N
	Respiratory Rate? Y (N)	Y N

FREEZE BRAND	Letters/Numbers applied:	"V3" Applied by: SWF
	Location(s):	shoulder + peduncle

Form Revised: 6 December 2012

Manatee ID: REC1310/SWFDM1314B3 Capture ID NA Date: 26 Feb 2016

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	
SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze		
Urine?	Y / N	Refrig / Freeze / EtOH		
Fecal?	Y / N	Freeze / EtOH		
Skin Scraping?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / N Location: _____	Freeze / / DMSO		
Mucosal Swab?	Y / N Oral / Rectal	Refrig		
Other?	Y / N Tear Film / _____	Freeze /		
PIT TAG	Scanned for previous PIT tag?	(Y) / N PIT tagged at this capture? Y / (N)		
	PIT tagged by:	SeaWorld		
	Right #	00-074E-EC43		
	Left #	00-075E-04AD		
TELEMETRY	Tag Type	Argos-GPS / PTT / VHF		
TAG	Tag ID#			
S2S	Tag / Antenna Color(s)	Tag: Antenna:		
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
BELT	ID# / Size / Color	FWC_____ Length: _____in. Color:		
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	Left / Right _____ inches		
	CR2a Programmed Release	Y / N Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			
TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.		
	Tagged by:			
PHOTOGRAPHS	Taken by:	William Greer		
	Exposures:	FWC025 - 2016-02-26: 5376-5387		
SKETCHES	Sketched by:	Ann Spellman (FWC)		

COMMENTS calf orphaned, hanging out w/ 2 w/ barn calves was 116cm + 16 kg

Form Revised: 6 December 2012

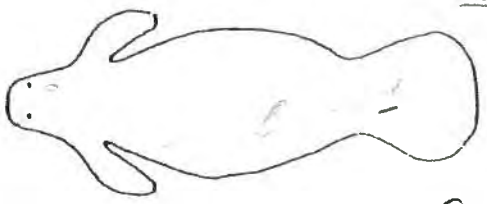
Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

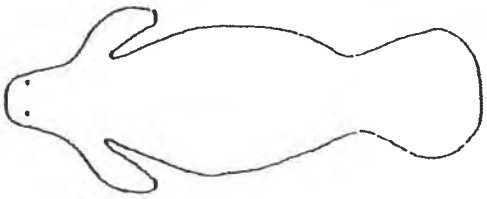
Date: 6 Feb 2016 **Location:** Port St John/ Cocoa, FL

Observer Code(s): SPANNER **Sighting Times:** _____ - _____

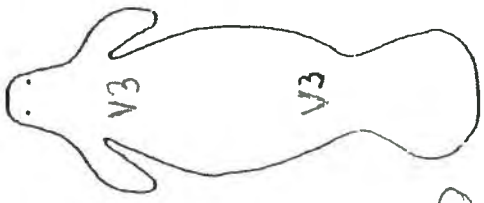
RELEASES



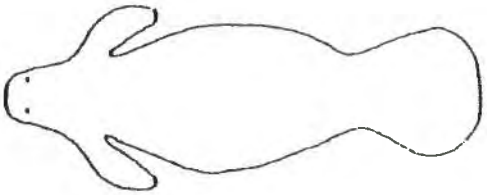
Field ID: 1 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: (M) F **How determined:** V NC
Exposures: FWC075_2016-02-26: 5390-5402
L 00-075A-003C R 00-075A-3C05
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "STOKES" TL=213
SURFACE/DIVE 4010 WT = 6001bs



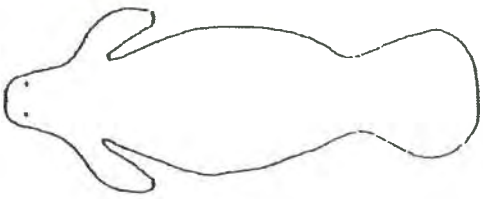
Field ID: _____ **Size:** CC - _____ SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



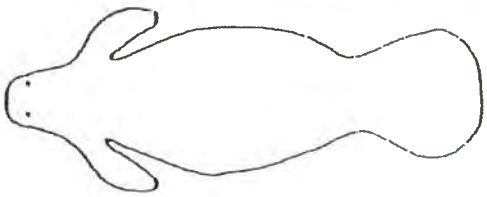
Field ID: 2 **Size:** CC - _____ (SU) AA
Calf: WC WC? **Why:** _____
Sex: (M) F **How determined:** V NC
Exposures: FWC075-2016-02-26: 5396-5397
V: 00-074E-0480 R: 00-075E-EC43
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: "SOUTH" TL=245
SURFACE/DIVE 1314 WT= 655lbs



Field ID: _____ **Size:** CC - _____ SU AA
Calf: WC WC? **Why:** _____
Sex: M F **How determined:** V NC
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



Field ID: _____ **Size:** CC - _____ SU AA
Sex: M F **How determined:** V NC
Calf: WC WC? **Why:** _____
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____



Field ID: _____ **Size:** CC - _____ SU AA
Sex: M F **How determined:** V NC
Calf: WC WC? **Why:** _____
Exposures: _____
Cold exposure: Head: ____ Trunk: ____ Tail: ____
Comments: _____

Other Comments: _____

Squiggy
REC 1310

SeaWorld releases rescued manatees into Indian River

By Kirstin O'Connor - Reporter
Posted: 1:58 PM, February 26, 2016
Updated: 6:18 PM, February 26, 2016

PORT ST. JOHN, Fla. - With a winter chill still in the air, marine biologists are moving quickly to release two rescued manatees at SeaWorld back to the wild.

The two new manatees are joining a crowd of sea cows around the FPL power plant sitting on the Indian River. Biologists helping to assist with the release said the power plant tends to consistently put out warm water, and is one of the warm spots they try to teach manatees to remember during the winter.

"We let them go in the warm water, they swim out into the river and they realize that's cold, they swim right back into the warm water and they've learned something that their mother normally would've taught them," said Ann Spellman, biologist with the Florida Fish and Wildlife Conservation Commission.

But the 50-mile drive from SeaWorld is just the start of the journey. Each of the mammals weighs well over 600 pounds, which takes a team of eight biologists to measure, carry, and deliver onto a small boat.

Each of the naive manatees is released with a tracking system to ensure they do not wander away from the warm water before the spring.

"What we do is attach the GPS tag to the belt so that even when the manatee's resting like 4 feet below the water surface we can still locate them," said Melody Fischer, with Sea to Shore Alliance.

Spellman said the first manatee, Stokes, has been rescued more than once because he's run into trouble in water that's not habitable for manatees.

The second, named Squiggy, was rescued as a 35-pound calf near Merritt Island and will be testing the waters for the first time.

Florida Fish and Wildlife said at least a dozen manatees have been released in the last month and a half. These are the last two naive manatees to be released during the winter season near the FPL power plant.

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http://www.clickorlando.com/news/seaworld-releases-rescued-manatees-into-indian-river-lagoon

Asst. Heal

Rescue Report

REC1311

Natural Tidally Stranded

GENERAL

Date of Rescue: 28 August 2013 Date of Initial Call: 28 August 2013 Filed by: A. Spellman

Rescue ID: REC1311 Facility ID: N/A Other ID: N/A

FWC Case Number: 10479 FWC Region: NE Orlando

Sex: Female Length: 300 cm Estimated: Yes Weight: NT kg Estimated:

PIT Tag Present: Unk PIT Tag Applied: No R: L:

State: FL City: Cape Canaveral County: Brevard Waterway: Port Canaveral Inlet/Lock Chamber

Latitude (Decimal Degrees): 28.4095° N Longitude (Decimal Degrees): -80.63853° W

Locality Description: Canaveral Lock chamber, on the rocks on the N side of chamber, approximately 110 m NNW of 1000 Mullet Rd

Method of Capture: Removed rocks to clear a path to free manatee

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☒ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
28 August 2013	At 0807 hrs, FWC-biologist Ann C. Spellman (ACS) received a text alert from FWC NE Dispatch-Orlando regarding a manatee in distress at the Cape Canaveral Lock. The complainant, Lockmaster Mike Mannhardt (MM) (321-783-5421) received a report from a contractor working in the locks who had spotted a manatee stranded on the rocks around 0600 hrs. At that time, the original complainant reported that the manatee appeared to be dead. (NOTE: The previous day, ACS had received a call about a manatee, likely a female in a mating herd that had temporarily stranded on the rocks when the lock was opened. The manatee was successful in returning itself to the water, so no

	further action was taken at that time.) When lock staff arrived and went down to look at the manatee, they realized it was alive but possibly injured. ACS responded immediately along with volunteer Angela R. Preston (ARP). ACS climbed down the rocks to assess the manatee and found it wedged in the rocks and stuck, but otherwise appeared to be in good health (e.g., only superficial cuts and scrapes, exhibiting normal resting respirations). The tide had gone out and would not be back in for another three hours. The best option appeared to be clearing a path by moving several rocks. With assistance from lock staff, enough rocks were cleared and the manatee attempted to escape. ACS assisted by pushing the manatee forward. The manatee stayed close to the shore for approximately 15 minutes and showed agitation when approached by several males. Eventually the manatee swam off towards the open lock door on the west side and swam out into the Banana River.

PARTICIPANTS:

FWC EC: A. Spellman, A. Preston
Canaveral Locks: M. Mannhardt

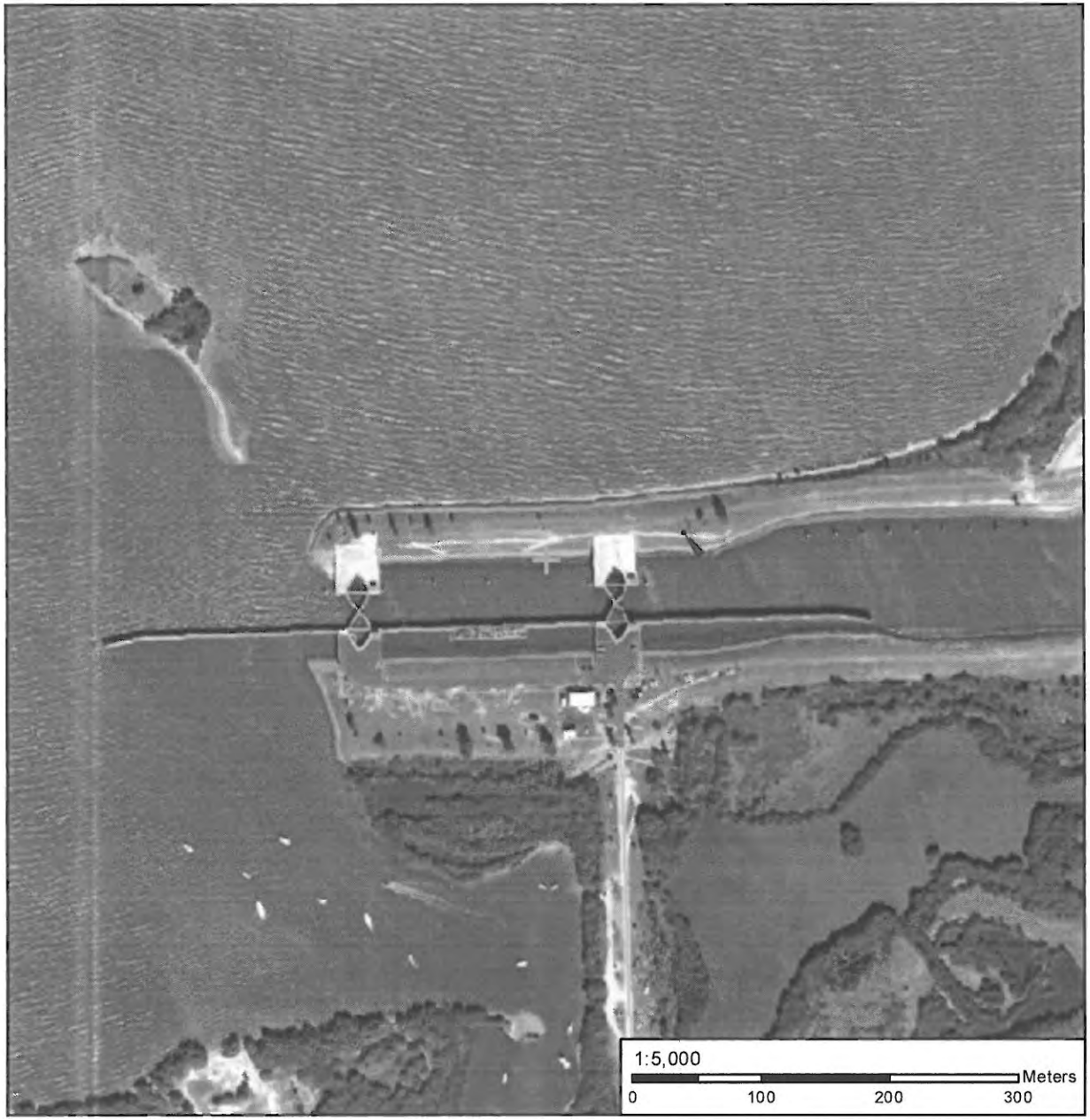
Edited by:

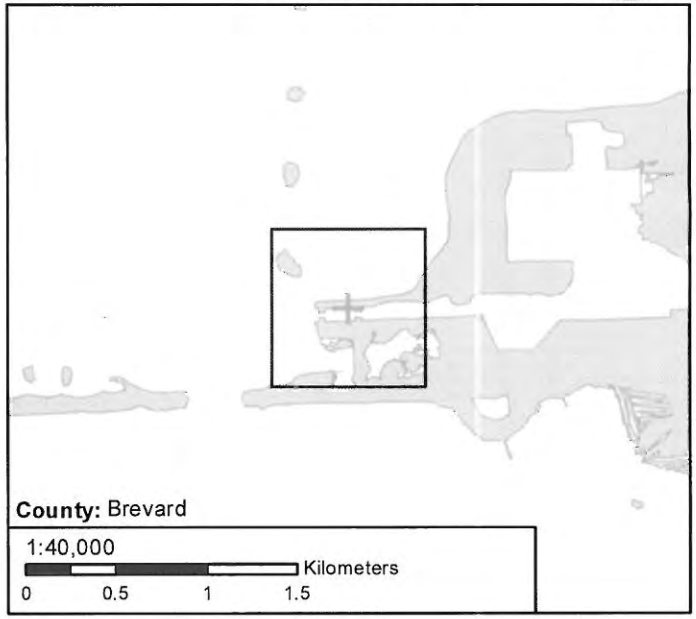
TRR
DJS
AJG

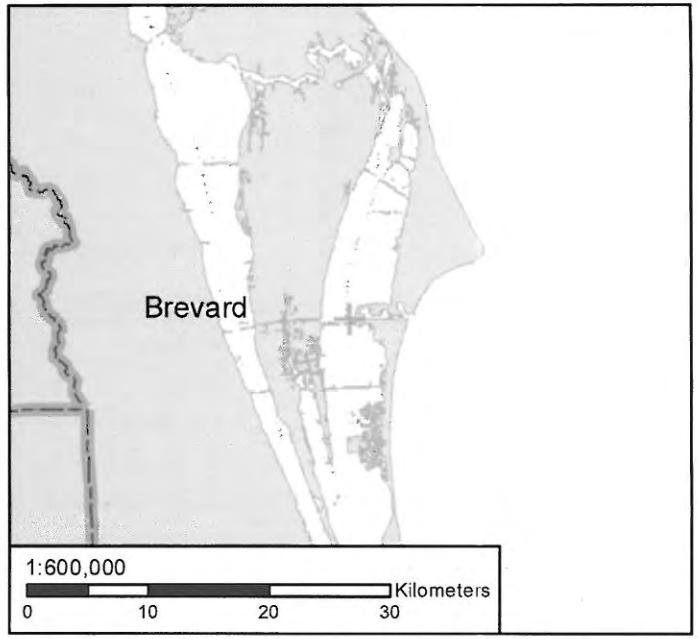
(02/20/2013)

Verified Response Location of Manatee Rescue REC1311

Rescue Date: 8/28/2013 **Facility ID:** N/A Map Created 7/29/2015







Locality Description:

Canaveral Lock chamber, on the rocks on the N side of chamber, approximately 110 m NNW of 1000 Mullet Rd

Latitude: 28.4095°N **Longitude:** -80.63853°W

Asst. w Rel

Entered

Natural Stranded

Szemer, Donna

From: Spellman, Ann
Sent: Wednesday, August 28, 2013 11:45 AM
To: Szemer, Donna
Subject: RESCUE TODAY

REC1311
Manatee trapped in rocks lining lock chamber at Port Canaveral, Canaveral Inlet, Brevard County 10 feet long- likely female given she was the center animal in a mating herd- will hopefully confirm with photos I will send to USGS. Assist and release by FWC and Lock staff.

Ann C. Spellman
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission Indian River Field Lab 1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Phone: 321-953-5037
Fax: 321-984-4824

Ann.Spellman@MyFWC.com

www.MyFWC.com

"Speak the truth, even if your voice shakes." --Maggie Kuehn, Gray Panthers

Character is who you are when you think no one is looking.

Released 2/10/14

Rescue Report

REC1313

Calf by itself

GENERAL

Date of Rescue: 15 October 2013 Date of Initial Call: 15 October 2013 Filed by: A. Etherington/C. Rush

Rescue ID: REC1313 Facility ID: SWFTm1318b Other ID: Leonard

FWC Case Number: 12696 FWC Region: NE (Orlando)

Sex: Male Length: 130 cm Estimated: No Weight: 85.18 lbs (38 kg) Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Cape Canaveral County: Brevard Waterway: Atlantic Ocean

Latitude (Decimal Degrees): 28.54256° N Longitude (Decimal Degrees): -80.56384° W

Locality Description: Canaveral AF Station, approximately 800 m South of the beach access to complex 47.

Method of Capture: placed into a stretcher

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☐	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
15 October 2013	At 0935 hrs, FWC-biologist Christine N. Rush (CNR) responded to a text alert from FWC NE Dispatch-Orlando regarding a small beached manatee by itself at the Cape Canaveral Air Force Base (CCAFB). FWC case number 12696 was assigned. The complainant, CCAFB-biologist Martha Carroll (MC; 321-543-9475), had received a call at 0915 hrs from fellow CCAFB-biologist, Angy Chambers (AC), informing her of the manatee. AC had found the manatee while conducting a sea turtle nesting survey. After CNR spoke to the complainant, she contacted FWC-Andy J. Garrett (AJG) to inform him of the possible rescue. CNR then contacted SeaWorld-Bob Wagoner (BW) to ensure they could accept the manatee. CNR and FWC-biologist Amy R. Etherington

	(ARE) met FWC-volunteer Leo J. Cross (LJC) at the beach access near Complex 47. ECFL staff was escorted by MC approximately a half mile down the beach to the manatee where AC was still sitting with it and recording respirations. ECFL staff placed the manatee into a stretcher and loaded it into the bed of a truck with four-wheel drive. ECFL staff was taken back to the beach access point and the manatee was wrapped in blankets and loaded into the transport truck. The manatee was transported to SeaWorld by CNR, ARE, and LJC, arriving at 1230 hrs.

PARTICIPANTS

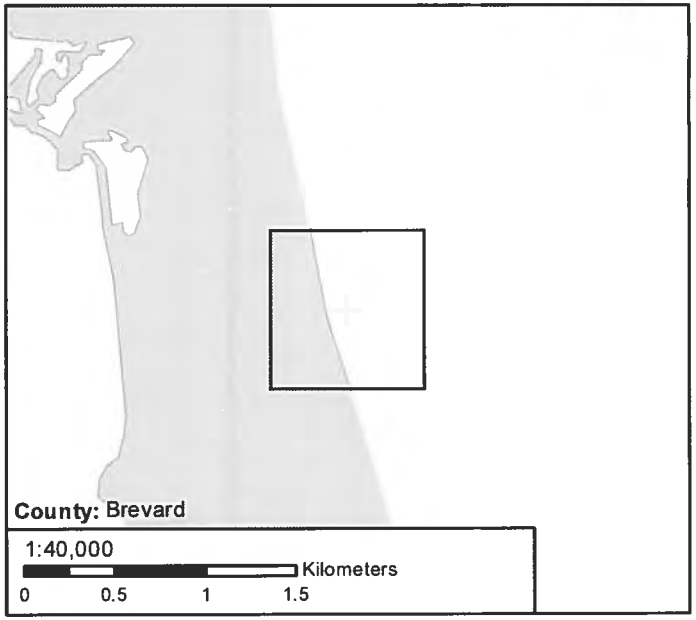
FWC: C. Rush, A. Etherington
FWC Volunteer: L. Cross
CCAFB: M. Carroll, A. Chambers

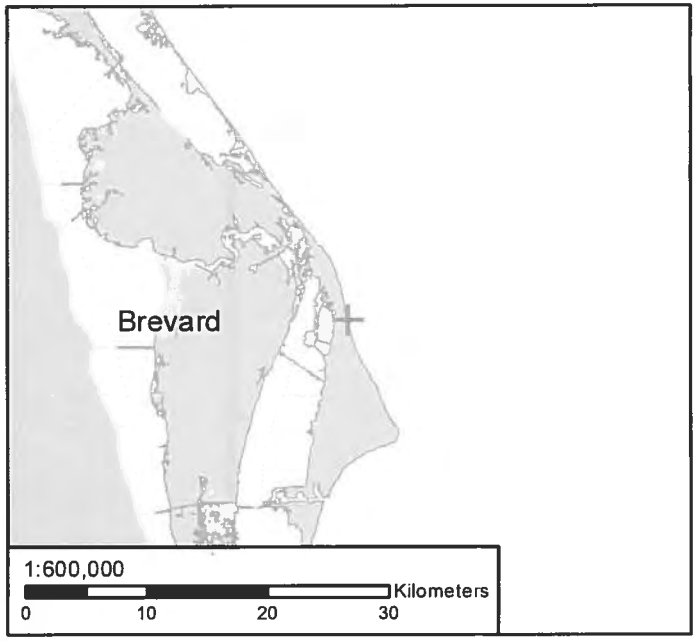
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1313

Rescue Date: 10/15/2013 **Facility ID:** SWFTm1318b Map Created 6/15/2015





Locality Description:
Canaveral AF Station, approximately 800 m South of the beach access to complex 47

Latitude: 28.54256°N **Longitude:** -80.56384°W

Szemer, Donna

SWFTM1318B
REC1313

From: Garrett, Andy
Sent: Tuesday, October 15, 2013 11:15 AM
To: Ray Ball; Adrienne Atkins; Amy Teague; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Randy Runnells; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Ward, Leslie
Subject: RE: Rescue Alert

The "baby" in Cape Canaveral was 4ft long and no other animals were seen in the area. ECFL staff have collected the calf and are on the way to Sea World.

From: Ray Ball [mailto:Ray.Ball@lowryparkzoo.com]
Sent: Tuesday, October 15, 2013 11:04 AM
To: Garrett, Andy; Adrienne Atkins; Amy Teague; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Randy Runnells; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Ward, Leslie
Subject: RE: Rescue Alert

Trevor received this pair last night at Lowry. The calf weighed 160 pounds and has large defect in the right dorsal body wall. The margins do not dissect more than a few cm in any direction. Routine bloods were collected and ceftiofur and ketoprofen were given. Follow up wound care and a more detailed exam of the wound is planned for later today but this calf initially seems to be heavy in the water. The dam was 1290# and appears well and seen to nurse the calf this am.

Other updates include:

- Picking up Pixie from SWF today for winter release
- Released Marcy last week
- Released tomorrow for Boycida
- Calf Jobin continues to do well as we transition formula from Colostrix to Esbilac.

Ray

From: Garrett, Andy [mailto:Andy.Garrett@MyFWC.com]
Sent: Tuesday, October 15, 2013 10:15 AM
To: Adrienne Atkins; Amy Teague; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: RE: Rescue Alert

Manatee Information (MLog:**1520**)

Animal ID:**SWFTm1318B** Sex:**M** Name:**Leonard** Rearing:**Orphan hand reared**

-- Release Information ----------

Release Date: 02/10/2016

-- Release Location Information ----------

Release Site: Near FPL Plant, Port St John

State: FL **County:** Brevard **City:** Port St John

REC 1313

Waterway: Indian River

-- Measurement ----------

Weight (kg): 284 **Estimated Weight?:** No **Date Weighed:** 12/23/2015

Length (cm): 235 **Estimated Length?:** No **Date Measured:** 12/23/2015

-- Other Release Information ----------

Display Water Type: Fresh

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 03

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: Saltwater and freshwater vegetation

How many months has animal been exposed to vegetation? 03

Tracker: S2S/Melody Fischer

Veterinarian: Laura Croft

Organization: SeaWorld Florida

Participating Org: S2S FWC-Indian River Field Lab SMC SWF-Rescue Team

Additional Narrative: Animal will released by boat out near FPL outflow, he will be tagged and tracked by S2S. Final measurements and photos will be taken at release site by FWC. Animal has V1 FB in 2 sites (between Rt. & Lt. shoulders & peduncle)

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 02/18/2016

Updated By: D **Updated Date:** 02/18/2016

Manatee Information (MLog:**1520**)

Animal ID:**SWFTm1318B** Sex:**M** Name:**Leonard** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Freeze-brand **Date Applied:** 12/23/2015 **Tag ID** V1

Tag ID V1

Information: Animal was FB with V1 in two sites, between the right and left shoulder and just above the peduncle.

Event: Release **Event Date** 02/10/2016

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 02/18/2016

Updated By: D **Updated Date:** 02/18/2016

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 11/25/2014 **Tag ID** 00075A2A22

Tag ID 00075A2A22

Information: Pit tagged in left shoulder with #00075A2A22 for future release.

Event: Rescue **Event Date** 10/15/2013

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/27/2014

Updated By: D **Updated Date:** 11/27/2014

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 11/25/2014 **Tag ID** 00075A3A22

Tag ID 00075A3A22

Information: Pit tagged in right shoulder with #00075A3A22 for future release.

Event: Rescue **Event Date** 10/15/2013

-- Report Information ----------

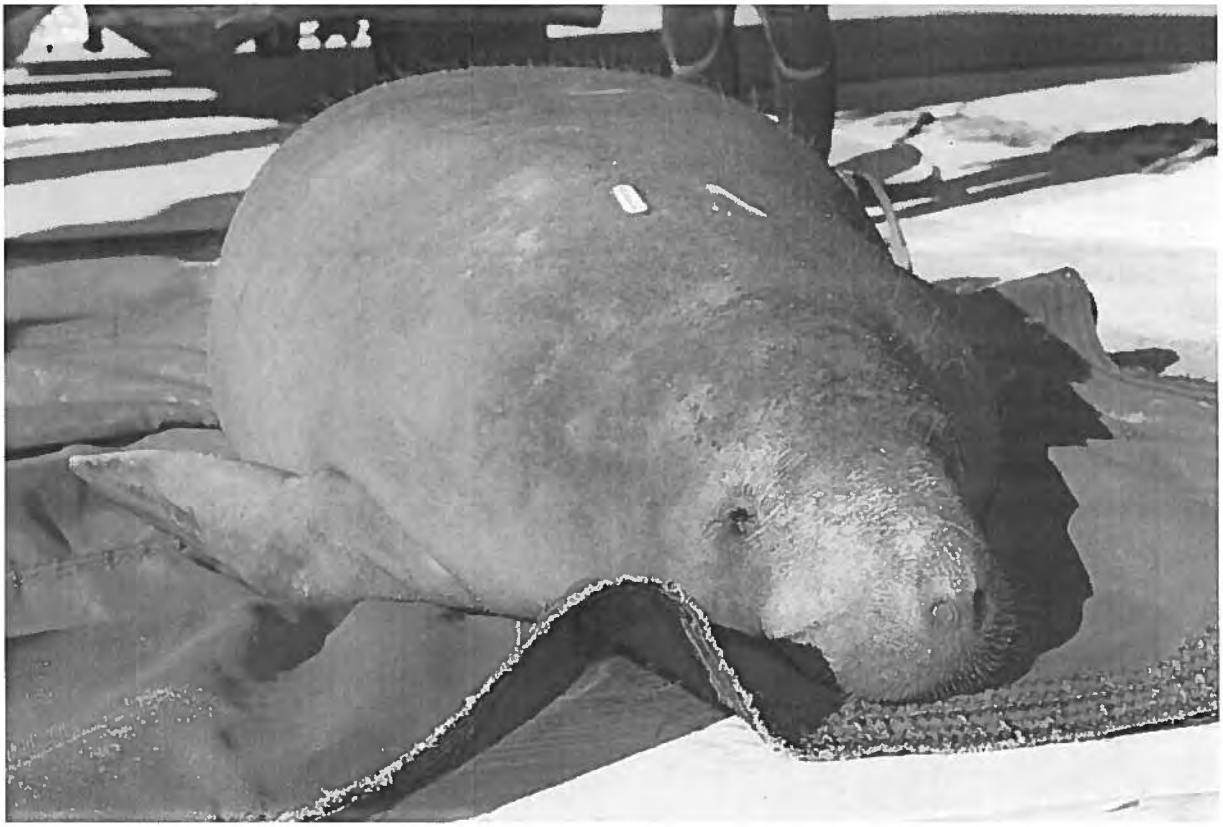
Created By: Bob Wagoner **Created Date:** 11/27/2014

Updated By: D **Updated Date:** 11/27/2014

Entered
PIT
+
Captive
2/25/16
DJS

News 13

SeaWorld Orlando returns four rescued manatees to wild



The manatees were returned near the warm water outfall of the Port St. John power plant in Brevard County. (SeaWorld Orlando)

Last Updated: Thursday, February 11, 2016, 4:45 PM

ORLANDO --

Four manatees that were rescued by SeaWorld Orlando in 2013 and 2014 have been returned to the wild.

Sea World says the manatees, Carmine, Leonard, Sheldon and Bernadette, were returned near the warm water outfall of the Port St. John power plant in Brevard County which will provide them with warmth during the current cold snap.

The manatees were brought in after being rescued for various reasons and were rehabilitated for years at SeaWorld Orlando.

- Carmine and Leonard, two male manatees, were rescued as orphaned calves in 2013.
- Sheldon and Bernadette were both rescued from Mill Cove, just outside of Jacksonville, due to cold stress in December of 2014.

SeaWorld Orlando says it continues to work closely with the Florida Fish and Wildlife Conservation Commission (FWC) to determine when a manatee is ready to be returned as well as the proper time and location for the return to take place.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/2/11/seaworld_orlando_ret.html

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Manatee ID: R&R13B3 / AWFM1318B Capture ID: NA Data Recorder: A. Spellman

Name: Leonard Date: 10 FEB 2016

ID of its Calf / Mom: NA Sex: (M) / F

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: Pt St John, FPL
Latitude: _____ N
Longitude: _____ W
Water Temp: 15° C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: _____

EVENT: ___Capture ___Rescue ___Pre-release Assess. ✓ Release ___Post-release Assess.
Workup Site: Air Temp = _____ C F Wind: _____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 670	Manatee + stretcher: NA	Stretcher weight: NA
Lengths	Total Length (curvilinear) (cm)	259	
	Total Length (straight)	245	
	Snout to Peduncle	183	
	Snout to Anus	168	
	Snout to Umbilicus	87	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 100 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	132	
	Girth at Umbilicus: (actual) or ½	181	
	Girth at Axilla: (actual) or ½	NT	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION			
	Body Score: 1 2 3 4 5		
	Health Concerns?	Y / (N)	(If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)	
	Side between anus & peduncle:	(Rounded) / Flat / Concave	
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds	
	Fresh Wounds or Lesions:	Y / (N)	(If yes, describe in comments)
	Person(s) assessing condition:	A Spellman	
	Clinical Assessment Data Sheet?	Y / (N)	
REPROD. STATUS	Pregnant? Y / N Describe:		
	Lactating?	Y / (N)	
MONITORING	Heartrate: Stethoscope EKG Doppler None	**Data Sheets?**	Y (N)
	Temperature: Oral Naso-pharyngeal Rectal None		Y (N)
	Respiratory Rate? Y N		Y N
FREEZE BRAND	Letters/Numbers applied:	Applied by:	
	Location(s):		

Manatee ID: REC1313/SWFM1313 Capture ID NA Date: 10 Feb 2016

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	
SAMPLES Milk?	Y / N volume: ___ ml	Refrig / Freeze		
Urine?	Y / N	Refrig / Freeze / EtOH		
Fecal?	Y / N	Freeze / EtOH		
Skin Scraping?	Y / N Location: ___	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / N Location: ___	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / N Location: ___	Freeze / / DMSO		
Mucosal Swab?	Y / N Oral / Rectal	Refrig		
Other?	Y / N Tear Film / ___	Freeze / ___		
PIT TAG	Scanned for previous PIT tag?	(Y) / N PIT tagged at this capture? Y / (N)		
	PIT tagged by:	WORLD		
	Right #	00-075A-31__		
	Left #	00-075A-2___		
TELEMETRY	Tag Type	(Argos-GPS) / PTT / VHF		
TAG	Tag ID#	64241		
	Tag / Antenna Color(s)	Tag: Red/orange Antenna: 1		
	VHF Frequency	164.879 MHz		
	Tag Sonic ID: FWC___	Freq: kHz Code: PI: msec		
BELT	ID# / Size / Color	FWC___ Length: ___in. Color: RED		
4-4-5-7@76 PI	Belt Sonic ID: FWC___	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	(Left) / Right ___ inches		
	CR2a Programmed Release	Y / N Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			
TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.		
	Tagged by:			
PHOTOGRAPHS	Taken by:	A. Spellman		
	Exposures:	FWC025_2016-02-10: 4939-4961		
SKETCHES	Sketched by:	A. Spellman		
COMMENTS	Received 10/15/2013 Canaveral AFB Ohio			

IV

Rescue | D4a 01/01/14

Rescue Report

REC1401

Calf by itself (cold stress)

General

Date of Rescue: 01 January 2014 Date of Initial Call: 01 January 2014 Filed by: A. Spellman

Rescue ID: REC1401 Facility ID: Other ID: MEC14001

FWC Case Number: 0017 FWC Region: NE

Sex: Male Length: 132 cm Estimated: No Weight: 38.5 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.20142° N Longitude (Decimal Degrees): - 80.60616° W

Locality Description: in a drainage ditch, approximately 30 m NW of 368 W. Arlington Street, "Berkeley Street canal"

Method of Capture: by hand

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☒ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
01 January 2014	At 1314 hrs, FWC-biologist Ann C. Spellman (ACS) received a direct call from FWC-biologist Amy R. Etherington (ARE) regarding a possible orphaned calf in the Berkeley Canal, Satellite Beach. ARE had been visiting the site with her family and, upon arrival at the canal, spotted a very small, lone manatee in the storm water drainage canal running north of the main canal at the west end. ACS contacted FWC-Andy J. Garrett (AJG) to advise him of a possible orphaned calf. AJG told ACS to contact SeaWorld (SWF) for space availability. ACS contacted FWC-biologist Christine N. Rush (CNR) for assistance. CNR was in the area with volunteer Daniel J. Rush and agreed to help. CNR went to

the field lab to get the rescue gear and transport truck and called in an additional volunteer Karen L. Vaughan (KLV), while ACS went directly to the site to further evaluate the calf. ACS also called Bob Wagoner at SWF to verify if they could take the calf. He said that they could accept the calf.

Upon arrival at the site, ACS assessed the calf and determined it was in poor shape: underweight, exhibiting a peanut-shaped head, cold stress lesions, and apparent buoyancy issues. The calf began swimming toward the main canal, so ACS entered the water to catch the calf by hand but it flailed around requiring ARE to get in the water and assist with restraint. CNR arrived within minutes and the calf was put in a blanket, carried up the embankment, and taken to the rescue truck.

The calf was placed in water in the small inflatable pool but failed to take a breath despite repeated attempts to stimulate breathing. At 1734 hrs, the calf died. Ventral examination revealed deep longitudinal folds and extreme weight loss. ACS contacted SWF and AJG to advise them of the calf's death. Staff returned to the field lab where the calf was covered with ice for transport to the MMPL the following day. Mortality ID MEC14001 was assigned.

PARTICIPANTS:

FWC EC: A. Spellman, A. Etherington, C. Rush, D. Rush, K. Vaughan

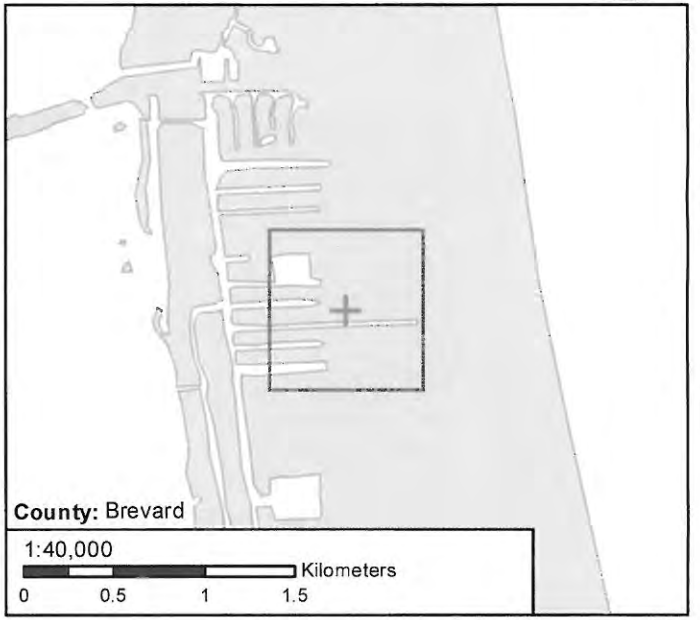
Edited by:

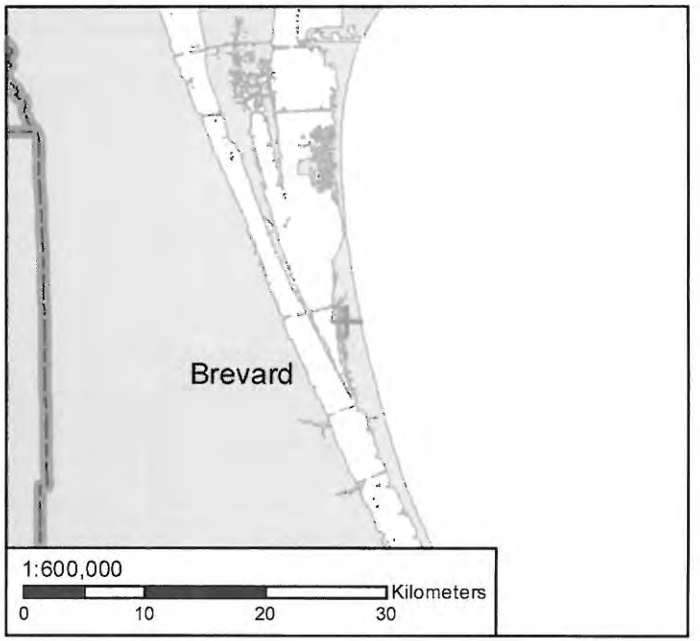
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1401

Rescue Date: 1/1/2014 **Facility ID:** N/A Map Created 10/9/2015





Locality Description:
in a drainage ditch, approximately 30 m NW of 368 W. Arlington Street, "Berkeley Street canal".

Latitude: 28.20142°N **Longitude:** -80.60616°W

Rescue / Dike

Szemer, Donna

REC1401
MEC1401

From: Garrett, Andy
Sent: Thursday, January 02, 2014 8:38 AM
To: Adrienne Atkins; Amy Teague; Andrew Gude; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Quigley, Wendy; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

Berkley Canal:

Yesterday, the FWC-ECFL responded to a report of an orphaned cold stressed calf in the Berkeley Canal. The 4 ft manatee was captured, but died shortly after being pulled from the canal.

It sounded like another situation where a very young cold stressed calf refused to take a breath after capture even though rescuers relocated the manatee to a small swimming pool and pour water over its head to try and stimulate a breath.

-Andy

Szemer, Donna

From: Spellman, Ann
Sent: Tuesday, December 30, 2014 2:23 PM
To: Szemer, Donna; Bassett, Brandon
Cc: Rush, Christine; Levine, Daniel
Subject: RE: REC1401/MEC1401

There was no SWF number since the manatee died right after we removed it from the water and there was no SWF involvement. The original complainant was our Amy Etherington. She was out showing her family manatees, called me directly and we responded. The case number was added after because I requested an officer on site for safety reasons- it was very rainy and we had to bring the manatee up out of the canal at Berkeley right next to the busy road- I wanted to make sure our presence and the transport truck (Parked illegally for the rescue) so close to the road did not result in a traffic accident. Dispatch assigned a number from that request, not the original call to me from Amy. The area is unincorporated Satellite Beach so I could not use local PD in that capacity. Dispatch sent Ofc. Rutherford to make sure the rescue location was well marked with flashy lights and cars did not become another safety issue. The animal received a mortality number MEC1401. Hope this helps.

Ann

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

From: Szemer, Donna
Sent: Tuesday, December 30, 2014 11:44 AM
To: Bassett, Brandon; Spellman, Ann; Rush, Christine; Levine, Daniel
Subject: RE: REC1401/MEC1401

Hi,

Don't know if you received an answer to the second question, but in the database, I have SWFTM1401b as RNE1401. I do not have any Sea World ID associated with REC1401.

Donna

From: Bassett, Brandon
Sent: Monday, December 29, 2014 4:47 PM
To: Spellman, Ann; Rush, Christine; Levine, Daniel
Cc: Szemer, Donna
Subject: REC1401/MEC1401

Hello. Two quick questions. The history for this manatee says that FWC case number 0017 was assigned. But I don't see anywhere in the rescue report or history where Dispatch was called. It that correct?

Also, SWFTm1401b is listed at the facility ID, but the calf died on site so there shouldn't be one. Can you confirm that? Thanks!

Brandon Bassett
Manatee Mortality Database Curator
Florida Fish and Wildlife Conservation Commission
Marine Mammal Pathobiology Laboratory
Office - 727-893-2904
Fax - 727-893-2907

"Insert witty quote or life lesson here" --Anonymous mountain Guru

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MEC14001**
Date of Report: 2014-Jan-01
Filed By: FWC MMPL

FWC Case # 0017 **FWC Region:** NE

Sex: Male **Length:** 132 **cm** **Weight:** 38.5 **kg**

DATE REPORTED: 2014-Jan-01 **By:** FWC-ARE

DATE COLLECTED: 2014-Jan-01 **By:** FWC-ACS,CNR,ARE

DATE NECROPSIED: 2014-Jan-02 **By:** MMPL-BLB,MdW,AJG,KJR,ALP

LOCATION: **State:** FL **Latitude:** 28.20142 **N**
County: Brevard **Longitude:** -80.60616 **W**
Waterway: Grand Canal
Locality description: Satellite Beach, floating in a drainage ditch, approximately 30 m NW of 368 W. Arlington Street, "Berkeley Street canal".

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Perinatal (<= 150 cm)

EXPLAIN: Natural: Cold Stress; Cold stress lesions; Emaciated; Bleached epidermis; Serous fats; Depleted fats; Dry, hard feces; Abscesses; Fetal folds; Thick algal mat; Congested parietal pleura, tracheal mucosa; Frim, discolored, slightly wet lungs; Empty upper GI tract; Fluid in cecum, colon; Purulent mandibular lymph nodes.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, ELISA toxicology samples, Archive toxicology samples, Histology. ELISA in foil. Lung abscesses for microbiology and cytology. Brain, distal feces, mandibular lymph node, lung x2.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Perinatal evaluation performed. Bacteriology report. Histology report. Rescue report. Fungal culture. Cytology report. Genetic analysis.

REMARKS:

PIT tag scan negative. Died on 01 Jan 2014. Died at 1734 hrs. See rescue report REC1401. Genetic analysis indicates this carcass is not closely related to a large female, MEC13264, found nearby.

Page 1&2	24 sept 2015
Necropsy Report	24 sept 2015
Lat/Long	24 sept 2015

Resc / Dth
4/22/15

Rescue Report

REC1402

Natural
undetermined

GENERAL

Date of Rescue: 28 January 2014 Date of Initial Call: 31 December 2014 Filed by: C. Rush/A. Spellman

Rescue ID: REC1402 Facility ID: SWFTm1402b Other ID: "Georgia," SWFTm9117b

FWC Case Number: N/A FWC Region: NE Orlando

Sex: Female Length: 326 cm Estimated: No Weight: 761.4 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R: None L: 00-01D3-88F2

State: FL City: Orange City County: Volusia Waterway: Blue Spring

Latitude (Decimal Degrees): 28.94298° N Longitude (Decimal Degrees): -81.34145° W

Locality Description: Blue Springs State Park, approximately five meters NE of the canoe beach, along the shoreline

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Severe weight loss and lethargy of unknown cause.

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
31 December 2013	Save the Manatee Club-biologist Wayne Hartley (WH) emailed FWC EC Field Lab, Sea to Shore, Blue Spring State Park (BSSP), and Save the Manatee Club staff images of "Georgia," a well-known, gregarious manatee. From lateral photos provided, "Georgia" appeared to have lost a lot of weight and WH wanted to inform everyone of his concerns. WH was also trying to determine whether or not "Georgia" had a dependent calf with her.
02 January 2014	An email update about multiple manatees of concern in Blue Spring from WH mentioned that "Georgia" did not have a dependent calf and that he felt she looked thin.
10 January 2014	WH emailed updated photos of "Georgia" and again voiced concern for her condition. More behavioral observations were requested and photos of her ventrum if possible.
22 January 2014	FWC-biologist Ann C. Spellman (ACS) and volunteer Karen L. Vaughan (KLV) met with WH at BSSP to try and get a better ventral assessment of "Georgia." ACS was successful in getting the GoPro under her as she rested along the bank. "Georgia" showed no interest in the encounter. Her behavior was unusual.
24 January 2014	WH sent out updated photos of "Georgia" and was concerned about her welfare. She evaded the canoe, which was extremely uncharacteristic of her.
25 January 2014	ECFL staff met with WH at the Blue Spring Manatee Festival to discuss a plan for "Georgia" the following week.
27 January 2014	ACS emailed still photos of "Georgia's" ventrum showing marked weight loss to all involved parties. ACS suggested a rescue as soon as possible. SWF staff agreed to be available the following day or the day after should FWC EC staff successfully tag the manatee. FWC-biologist Andy J. Garrett was contacted with regards to the capture plan, agreed and approved the plan to tag "Georgia" as long as rescue staff was available to attempt a rescue within a reasonable time frame, and staff was committed to tracking her until she was captured.
28 January 2014	ACS, CNR and KLV met WH at BSSP to see if "Georgia" was in the spring. Upon confirming that she was, CNR contacted SeaWorld-Bob Wagoner (BW) to confirm that SeaWorld staff was available to assist with the rescue. After advising AJG of the intent to tag and confirmation of SWF's availability, CNR and ACS entered the water and ACS successfully tagged "Georgia" while CNR kept her occupied. CNR and ACS continued to assess "Georgia" and found her to be aloof and extremely lethargic. She made little effort to move in the

	shallows and if she swam into deeper water, she "face-planted" into the sand and could easily be manipulated. After observing this behavior, CNR contacted BW to inform him that the tag was on and recommended an immediate rescue the same afternoon. SeaWorld staff agreed to respond and arrived at Blue Spring around 1330 hrs. The net was staged at the canoe beach near the mouth of the Blue Spring Run. FWC EC staff and five SeaWorld staff members swam across the run to where "Georgia" was resting. "Georgia" was surrounded by rescue swimmers and readily guided to the shoreline near the canoe beach. The capture net was walked around her and the stretcher was placed under her. The rescue crew walked her to the canoe beach and then carried her up the stairs and loaded her into the rescue van by 1355 hrs. "Georgia" was taken back to SWF for treatment.

PARTICIPANTS

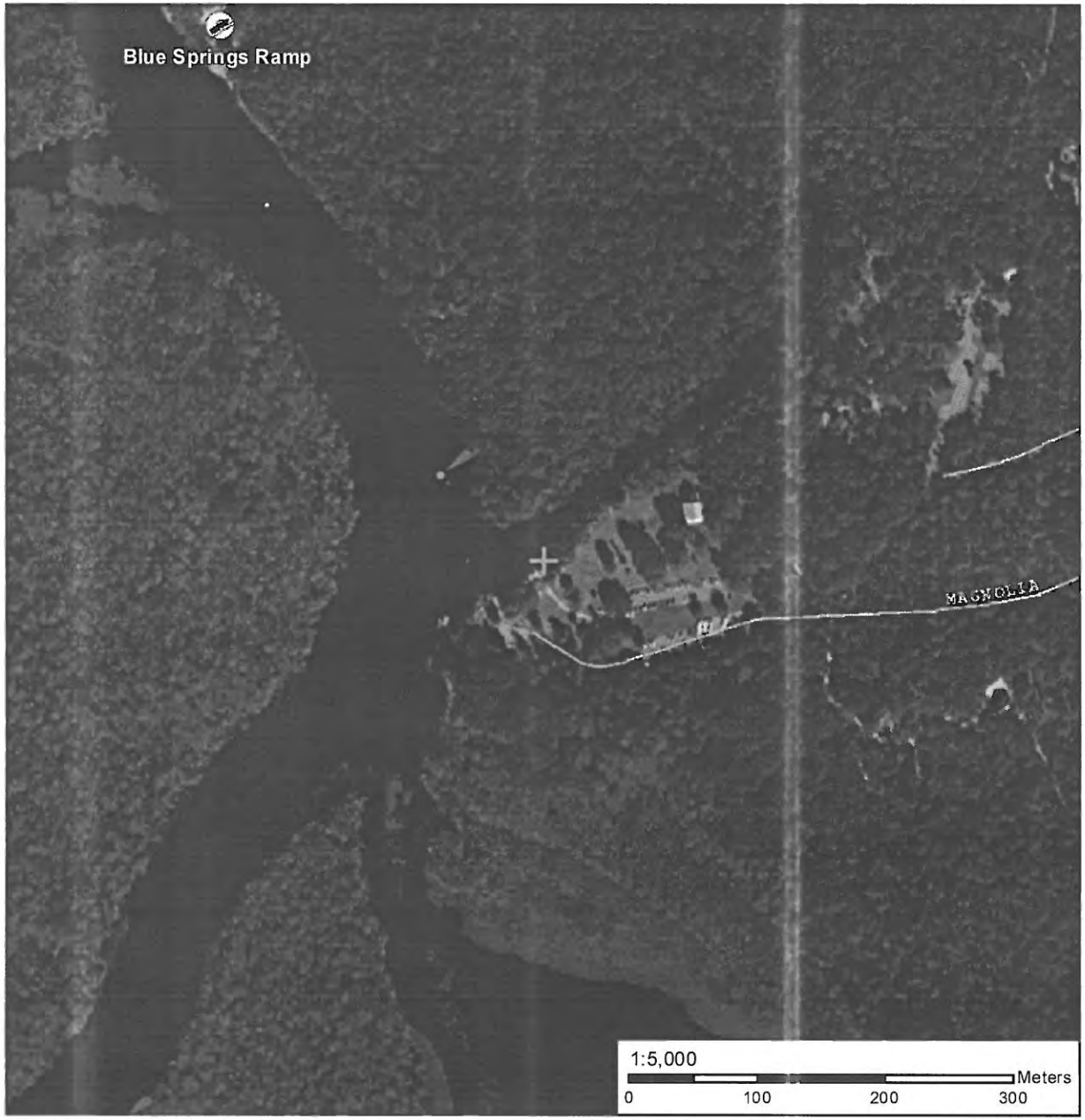
FWC: C. Rush, A. Spellman, K. Vaughan (Volunteer)
Save the Manatee Club: W. Hartley
SeaWorld: Animal Care Staff

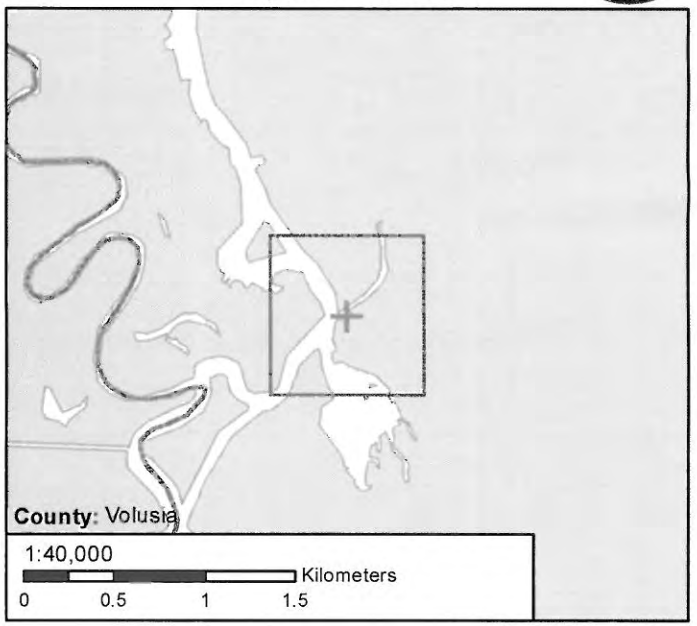
Edited by:
TRR
DJS
AJG

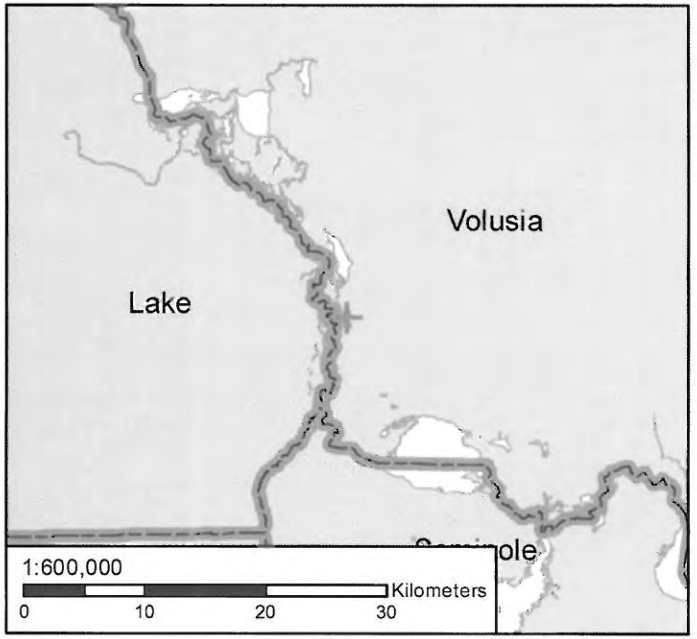
(02/20/2013)

Verified Response Location of Manatee Rescue REC1402

Rescue Date: 1/28/2014 **Facility ID:** SWFTm1402b Map Created 10/9/2015







Locality Description:
Blue Springs State Park, approximately five meters NE of the canoe beach, along the shoreline

Latitude: 28.94298°N **Longitude:** -81.34145°W

Rose

Szemer, Donna

SWFTM14026
REC1402

From: Garrett, Andy
Sent: Tuesday, January 28, 2014 2:18 PM
To: Adrienne Atkins; Amy Teague; Andrew Gude; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: RE: rescue alert

Georgia has been captured and is being transported to Sea World.

From: Garrett, Andy
Sent: Tuesday, January 28, 2014 10:44 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Andrew Gude'; Barlas, Margie; Baxter, Kevin; 'Bill Hughes'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Stefanie Barrett'; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue alert

Blue Springs:

Wayne and park staff have reported to FWC-ECFL staff that "Georgia" is looking very thin and not behaving in her normal way. Ann and her staff are on scene today and have verified the report. They have decided to vhf tagged her with hopes to capture her with a Sea World crew today. If captured, Georgia will be taken to Sea World for an evaluation.

-Andy

Szemer, Donna

From: Garrett, Andy
Sent: Monday, February 03, 2014 1:50 PM
To: Szemer, Donna; Bassett, Brandon
Subject: FW: Georgia's PIT

Fyi on the PIT tag. If you have questions, please feel free to e-mail this group.

From: Spellman, Ann
Sent: Monday, February 03, 2014 12:37 PM
To: Wayne Hartley; prose@savethemanatee.org; Monica Ross
Cc: Rush, Christine; Etherington, Amy; Megan Keserauskis; diane; Karenvaughan3 .; Garrett, Andy
Subject: FW: Georgia's PIT

fyi

From: Wagoner, Robert C. [mailto:Robert.Wagoner@SeaWorld.com]
Sent: Monday, February 03, 2014 12:33 PM
To: Spellman, Ann
Subject: RE: Georgia's PIT

Georgia is doing ok, we did a full series of radiographs on Sunday did not see any obvious metallic foreign bodies so the vets don't think she has a GI obstruction but you never know about monofilament. Georgia has been defecating ok, a very dense vegetation, she had started to eat a little on her own but slowed up yesterday we have gone back to tubing her BID 2-3L on fluids.

We check the pit tag number again this morning and it is what Steve got and there is only one that we can find, our original notes show that she was pit tagged the day of release at BSSP by the Sirenia group but we never got the number.

Thanks.

From: Spellman, Ann [mailto:Ann.Spellman@MyFWC.com]
Sent: Monday, February 03, 2014 8:21 AM
To: Lehr, Steven M.
Cc: Wagoner, Robert C.; Runnells, Randy W.; Hughes, Bill
Subject: RE: Georgia's PIT

Looking into it Thanks. How is our girl doing?

From: Lehr, Steven M. [mailto:Steven.Lehr@SeaWorld.com]
Sent: Saturday, February 01, 2014 1:18 PM
To: Spellman, Ann
Cc: Wagoner, Robert C.; Runnells, Randy W.; Hughes, Bill
Subject: Georgia's PIT

Hi Ann,

As I mentioned to you on the phone, there is a discrepancy with Georgia's PIT. The website has it listed as a single PIT on Left shoulder: **00-01D3-66B2**. This morning we got **00-01D3-88F2** checked it twice.

Steve

verified w/PIT + Captive Database.
Corrected Web. 2/3/14 ~~2/5~~.

News 13

SeaWorld returns manatee to wild, now caring for two more

Last Updated: Friday, January 31, 2014, 10:55 AM

ORANGE CITY --

SeaWorld Orlando returned a female manatee to the waters of Blue Spring State Park in Volusia County Wednesday and rescued two others.

Piggy was rescued due to cold stress by the Florida Fish and Wildlife Conservation Commission (FWC) from the St. John's River in Palatka on Feb. 7, 2013 and was transported to SeaWorld Orlando for medical care and rehabilitation.

Over the past year, Piggy received continual treatment, including antibiotics, fluids and other supportive care.

The 725-pound manatee was transported by SeaWorld's Animal Rescue Team to Blue Spring State Park which is a designated manatee sanctuary.

Thursday, the SeaWorld Orlando Rescue Team rescued an adult female manatee from Blue Spring State Park after the FWC noticed the animal was emaciated, lethargic and behaving abnormally. This is not the first time SeaWorld Orlando has provided care to this manatee, who has been identified as Georgia. In 1991, an orphaned calf at the time, she was rescued from Brunswick, Ga, and was brought to SeaWorld Orlando for care until she was returned to Blue Spring State Park in 1997. She was close to six years of age, more than 10 feet long, and weighed 1,635 pounds at the time of her return.

Seventeen years and six calves later, the nearly 11-foot-long manatee was rescued again by the SeaWorld Orlando Rescue Team with assistance from FWC staff and volunteers. She was then transported to SeaWorld Orlando Wednesday, where the park's animal care team and veterinary staff performed a complete health exam and began providing an antibiotic treatment and fluids. Georgia will continue to be monitored and more testing will be done to determine what medical attention the large manatee needs.

In addition, the FWC also located an orphaned female calf in the DeSoto Canal near St. Petersburg late Thursday. The 122-pound calf is a little over four feet long and was determined to be a dependent calf. Upon her arrival at SeaWorld Orlando, she was given a full health assessment and will continue to be monitored and provided around-the-clock care. The calf joined four other orphaned manatees that were rescued late last yea

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2014/1/30/seaworld_returns_man.html

Manatee Information (MLog:**245**)

Animal ID:**SWFTm9117B** Sex:**F** Name:**Georgia** Rearing:**Wild reared**

-- Death Information ----------

Death Date: 04/22/2015

Death Occurred?: During Rehabilitation

Was animal enthanized?

Death Cause: Other other

Other Human-Related: Georgia had a retained fetus, surgery was performed to try and remove it, unable to remove it at this time. Moved back to our rehab pool for recovery and given post care for several days. She died due to complications from the surgery, post-surgery.

Death Location: During Rehabilitation

-- Other Death Information ----------

Facility: SeaWorld Florida

Veterinarian: Scott Gearhart

Additional Narrative: Georgia was rescued back in Jan. 2014 due to severe weight loss, during her rehab period she had times when she was doing well and eating, then would stop eating for periods but our vets could not find the source of her chronic inflammation. She was final diagnosed with a retained fetus from a previous calf (2013?). Plans were made to try and removed the retained fetus (fetal bones).

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 04/30/2015

Updated By: D **Updated Date:** 04/30/2015

Resc/Rel
1/19/16

Rescue Report

REC1403

Calf by itself

General

Date of Rescue: 28 January 2014 Date of Initial Call: 28 January 2014 Filed by: C. Rush

Rescue ID: REC1403 Facility ID: SWFTm1403b Other ID: Shirley

FWC Case Number: 1081 FWC Region: NE Orlando

Sex: Female Length: 142 cm Estimated: No Weight: 55 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.16294° N Longitude (Decimal Degrees): -80.60305° W

Locality Description: in the southern ditch off DeSoto Canal, on the east side of address 408 McGuire Blvd.

Method of Capture: Hoop net

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
28 January 2014	At 1109 hrs, FWC-biologist Christine N. Rush (CNR) received a text alert from FWC NE Dispatch-Orlando regarding a possible orphan calf in Satellite Beach. FWC case number 1081 was assigned. The complainant, Carol (408-455-9765), reported seeing a small manatee pacing in the canal all by itself. FWC EC Field Lab staff was on a rescue at Blue Spring State Park, so CNR contacted FWC-Volunteer Jason P. Herr (JPH) to request verification. JPH arrived on scene by 1130 hrs and verified that the manatee was all alone and approximately four feet in length. Since the canal where the manatee was being observed is known to have calves "parked" there for a few hours at a time during the winter months, JPH agreed to monitor the canal every hour and give

updates. During several visits to the canal, no other manatees were associated with the calf or seen down the main stretch of the canal.

Following the rescue of REC1402 at Blue Spring State Park, CNR was updated on the calf and she informed SeaWorld-Bob Wagoner (BW) that there was a possible orphaned calf in Satellite Beach. BW informed CNR that they would be able to accept the calf, if needed.

On the way to Satellite Beach, CNR requested that JPH get the transport truck in case the manatee needed to be rescued. CNR, FWC-biologist Ann C. Spellman (ACS), and FWC-volunteer Karen L. Vaghn (KLV) arrived at DeSoto at 1635 hrs and observed the calf feeding on mud. The calf appeared to be underweight. The calf then started pacing back and forth, as described when initially reported. CNR contacted BW to inform him that the calf needed to be rescued. ACS contacted FWC-Andy Garrett to inform him of the rescue as well. While awaiting JPH with the transport truck, the calf started to move out of the ditch into the main portion of the canal. A few other manatees swam into the canal, but none of them associated with the calf. The calf moved into the southern ditch of DeSoto, which wasextremely shallow and muck-filled. CNR, JPH, and KVL deployed a small net across the canal and ACS approached with the hoop net. Visual on the calf was lost but eventually the calf hit the small net. The hoop net was positioned by the land net and CNR guided the calf into the hoop net. The calf was placed on a blanket on shore. The calf appeared to be struggling to breathe, so CNR, JPH, and KVL entered the water with the calf to stimulate a breath and calm the animal. The small net remained deployed across the ditch. ACS filled the baby pool in the transport truck with water. At 1735 hrs, the calf was loaded into the pool inside the transport truck and the manatee took a few deep breaths. The calf was transported to SeaWorld, arriving at 1850 hrs.

PARTICIPANTS

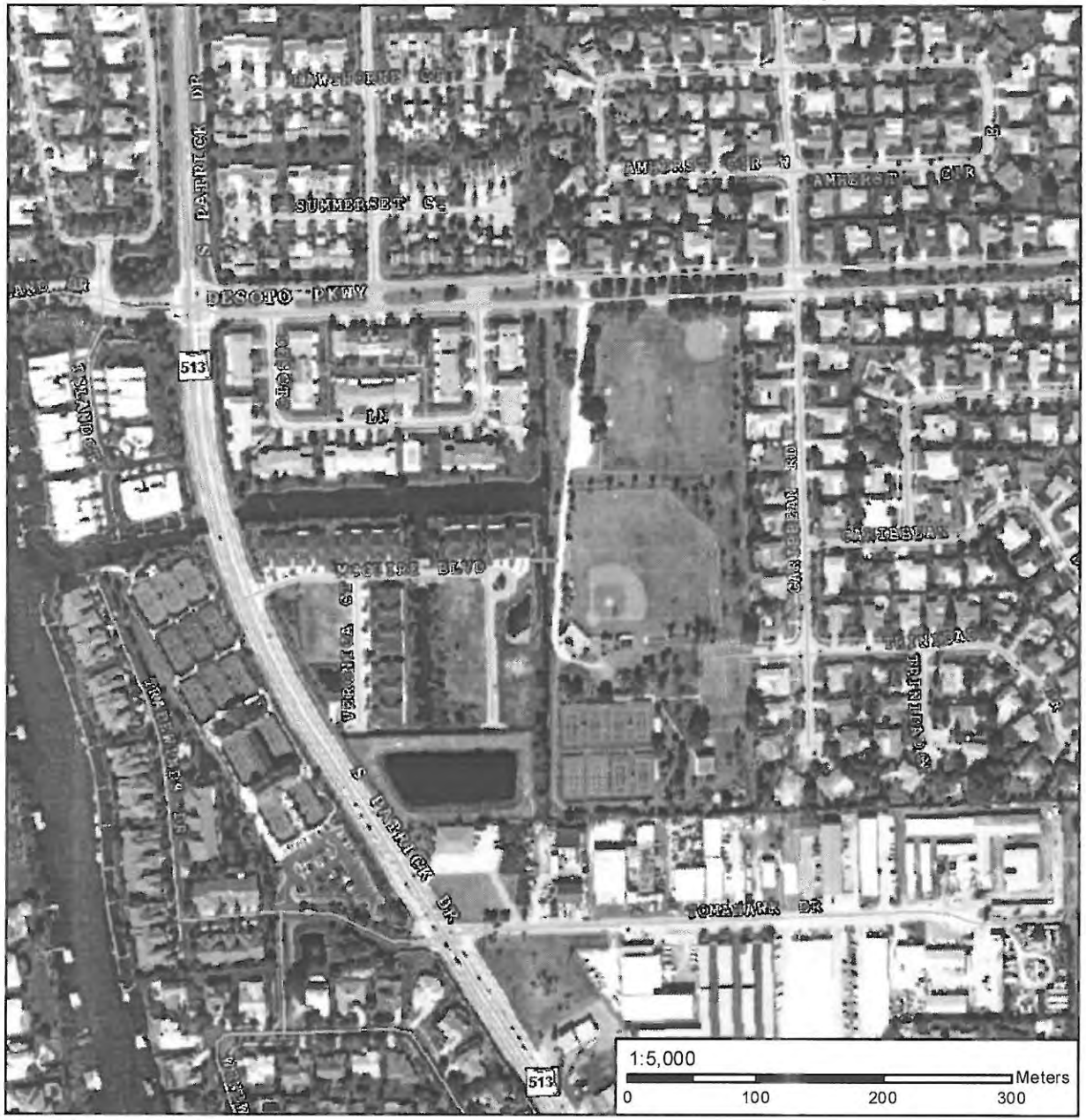
FWC EC: C. Rush, A. Spellman,
FWC Volunteers: J. Herr, K. Vaghn

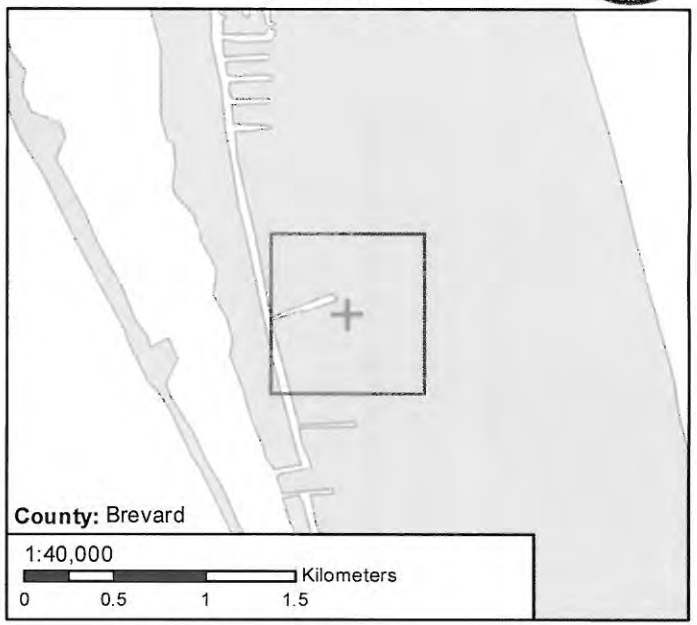
Edited by:
TRR
DJS
AJG

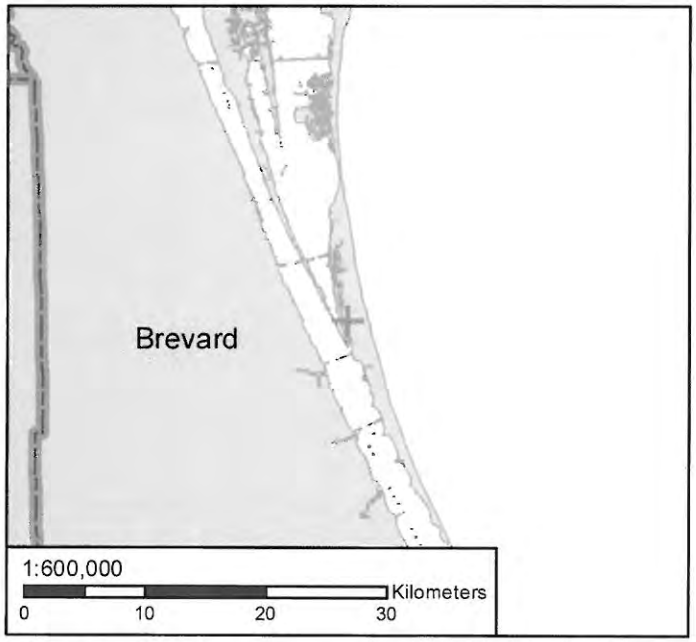
(02/20/2013)

Verified Response Location of Manatee Rescue REC1403

Rescue Date: 1/28/2014 **Facility ID:** SWFTm1403b Map Created 10/9/2015







Locality Description:
in the southern ditch off of DeSoto Canal, on the east side of address 408 McGuire Blvd.

Latitude: 28.16294°N **Longitude:** -80.60305°W

Rear
Calf by itself

Szemer, Donna

RECI403
SWFTM1403B

From: Garrett, Andy
Sent: Wednesday, January 29, 2014 8:26 AM
To: Adrienne Atkins; Amy Teague; Andrew Gude; Barlas, Margie; Baxter, Kevin; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: RE: rescue alert

Desoto Canal:

After Georgia's capture yesterday, FWC-ECFL staff received a report of a lone manatee calf in the Desoto Canal. The caller reported that the manatee had been alone for several hours. When FWC staff arrived, they found only the reported manatee in the canal. The manatee appeared to have cold stress and a peanut head. The manatee was captured and taken to Sea World. The manatee was a 143 cm female with cold stress lesions and longitudinal folds on the ventrum.

-Andy

From: Garrett, Andy
Sent: Tuesday, January 28, 2014 10:44 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Andrew Gude'; Barlas, Margie; Baxter, Kevin; 'Bill Hughes'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Stefanie Barrett'; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue alert

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-Andy

News 13

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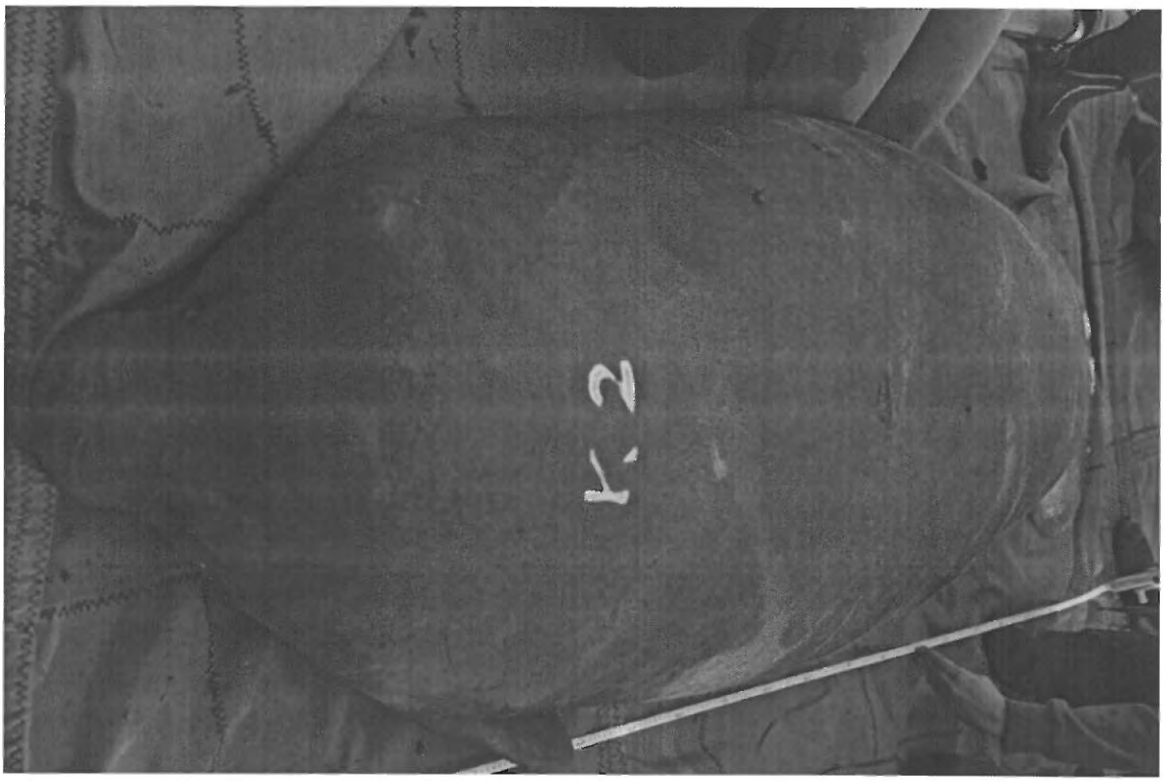
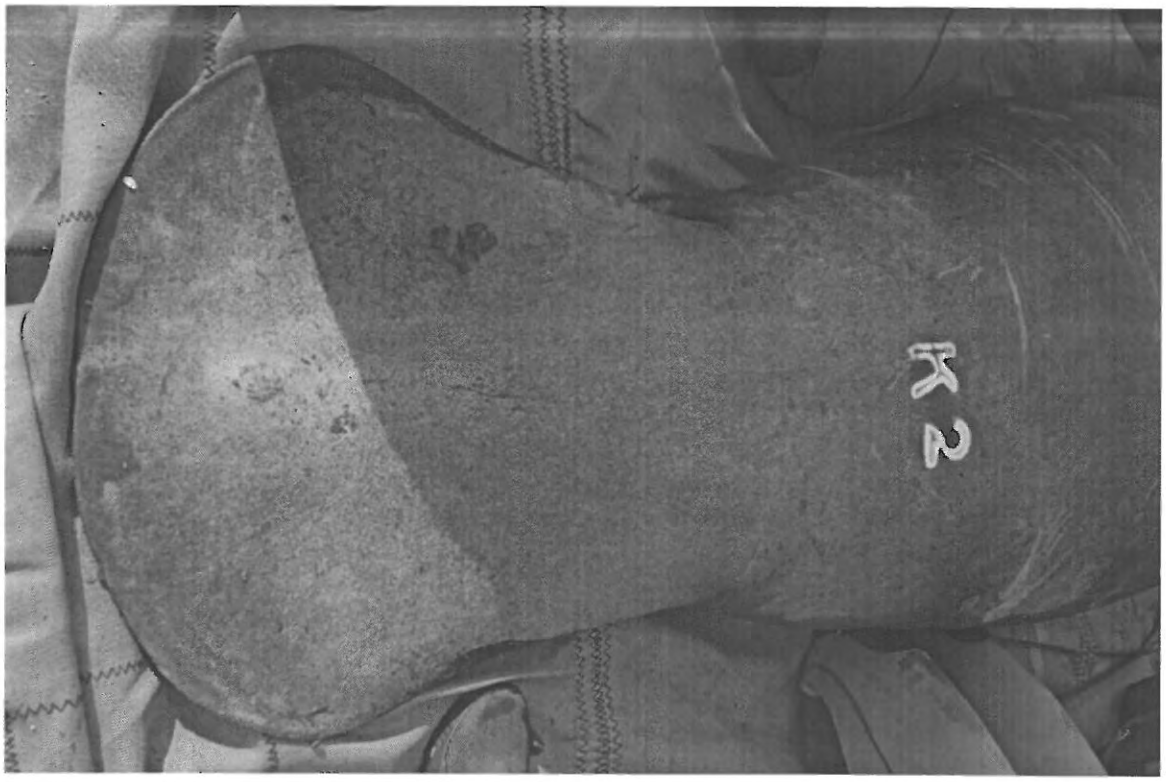
http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2014/1/30/seaworld_returns_man.html





"Shirley" SWFTM1403B
REC1403

Manatee Information (MLog:**1566**)

Animal ID:**SWFTm1403B** Sex:**F** Name:**Shirley** Rearing:**Orphan hand reared**

-- Release Information ----------

Release Date: 01/19/2016

-- Release Location Information ----------

Release Site: Port St John power plant

State: FL **County:** Brevard **City:** Port St John

Waterway: Indian River intercoastal

REC1403

-- Measurement ----------

Weight (kg): 317 **Estimated Weight?:** No **Date Weighed:** 01/09/2016

Length (cm): 231 **Estimated Length?:** No **Date Measured:** 01/09/2016

-- Other Release Information ----------

Display Water Type: Fresh

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 00

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: Salt water grasses

How many months has animal been exposed to vegetation? 03

Tracker: Sea to Shore

Veterinarian: Scott Gearhart

Organization: SeaWorld Florida

Participating Org: FWC did measurements at site and STS put a belt and tag on her.

Additional Narrative: Manatee to be belted

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 01/19/2016

Updated By: D **Updated Date:** 01/19/2016

Manatee Information (MLog:**1566**)

Animal ID:**SWFTm1403B** Sex:**F** Name:**Shirley** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 11/20/2014 **Tag ID** 00074EFE1A

Tag ID 00074EFE1A

Information: Pit tagged in left shoulder with #00074EFE1A for future release.

Event: Rescue **Event Date** 01/28/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/20/2014

Updated By: D **Updated Date:** 11/20/2014

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 11/20/2014 **Tag ID** 00074F0049

Tag ID 00074F0049

Information: Pit tagged in right shoulder with #00074F0049 for future release.

Event: Rescue **Event Date** 01/28/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/20/2014

Updated By: D **Updated Date:** 11/20/2014

Entered
1/22/16
DJS
PIT
&
Captive

FOX 35 WOGX

Rescued manatees returned to Indian River Lagoon

FOX 35 News at 5 p.m.

Posted: Jan 19 2016 07:36PM EST

Updated: Jan 19 2016 10:33PM EST

BREVARD COUNTY, Fla. (WOFL FOX 35) - Officials with SeaWorld Orlando on Tuesday released rehabilitated manatees back into the wild. Two manatees were transported inside a SeaWorld Orlando box truck to the Indian River Lagoon, the same place where they both nearly died months earlier.

"One was an orphaned calf that came in at a little over 100 pounds and bottle fed around the clock," explained SeaWorld's Randy Runnels. Now, close to 700 pounds, the manatee known as Shirley is in excellent health.

The other manatee, named Quincentariot, is particularly special to SeaWorld as it is the 500th manatee they have rescued.

With the help of state and federal protection laws, officials say the manatee population has grown to 6,000 statewide, up from several hundred in 1967 -- improvement so significant, the state is in the process of removing manatees from the endangered species list.

Rescued manatees returned to Indian River Lagoon

News 13

Four rehabilitated manatees returned to the wild

Last Updated: Tuesday, January 19, 2016, 5:56 PM

ORLANDO --

Four rehabilitated manatees were returned to the wild Tuesday in a multi-organization effort led by Florida Fish and Wildlife Conservation Commission (FWC).

The four rescued and rehabilitated manatees were returned back to their natural water ways by a large group of Florida's marine mammal experts -- including SeaWorld Orlando's Animal Rescue Team, Tampa's Lowry Park Zoo and the Miami Seaquarium.

The marine mammal experts worked together to return the manatees near the warm water outfall of the Port St. John power plant in Brevard County. The area will provide them with a warm water site during the current cold snap.

SeaWorld says the reason manatees are returned during cooler weather is because other wild manatees naturally congregate in specific warm water sources during these periods. Doing this allows the new animals to acclimate to a larger group, from which they can learn migratory patterns once the weather warms up. It also allows the newly-released manatees to familiarize themselves with a specific warm water site to return to the next time temperatures cool down.

The two animals released by SeaWorld were particularly special, including the 500th manatee rescued by the park, and an animal that was rescued two years ago as a tiny, 121-pound orphan that now weighs 705 pounds.

Manatees Returned:

Quincentariat- This juvenile male manatee was rescued on May 10, 2014 from the Banana River in Cape Canaveral due to cold stress. He was the 500th manatee rescued by the SeaWorld Orlando Animal Rescue Team. At the time of rescue he weighed 286 pounds, measuring 6 feet in length. The healthy manatee now weighs over 735 pounds, measuring more than 8 feet long.

Shirley- The orphan female calf was rescued on January 28, 2014 from the De Soto Canal in Brevard County. At the time of rescue she weighed 121 pounds and measured 4 feet 8 inches in length. The healthy and independent manatee now weighs 705 pounds and measures 7 feet 8 inches long.

Hammock- A young male patient named "Hammock" was rescued in March of 2014 from Indian River as an orphan, and will now receive a second chance at life in the wild after nearly two years of rehabilitation at the Manatee Hospital at Tampa's Lowry Park Zoo.

Abigail- In March 2013, Abigail was rescued from the Indian River system near Merritt Island in Brevard County, Florida. Suffering from cold stress, Abigail received critical care at Sea World Orlando and then was transferred to Cincinnati Zoo for rehabilitation. Then, in October of 2015, Abigail arrived at Miami Seaquarium to become acclimated to the natural diet and brackish water found in the region. She is estimated to weigh approximately 700-800 pounds and estimated to be between 3-5 years old.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/19/four_rehabilitated_m.html

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*)

(727) 896-8626

Manatee ID: RSC1403/SWFMN14036 Capture ID: NA Data Recorder: Ann Spellman / Angela Nelson

Name: Shirley Date: 19 January 2016

ID of its Calf / Mom: NA Sex: M / (F)

CAPTURE	RELEASE	TIMES
Location:	Location: FPL-ECRC, Cocoa	Initial Pursuit:
Latitude: N	Latitude: N	Net Set:
Longitude: W	Longitude: W	Captured/Onboard:
Water Temp: C F	Water Temp: C F	On Beach:
		Released:

EVENT: ___Capture ___Rescue ___Pre-release Assess. ✓ Release ___Post-release Assess.

Workup Site: Air Temp = ____ C F Wind: ____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 700	Manatee + stretcher —	Stretcher weight —
Lengths	Total Length (curvilinear) (cm)	213	
	Total Length (straight)	206 231cm - via S.W	
	Snout to Peduncle	141	
	Snout to Anus	122	
	Snout to Umbilicus	103	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: (actual) or ½	103	
	Girth at Umbilicus: (actual) or ½	147	
	Girth at Axilla: (actual) or ½	NT	

ULTRASOUND	Reader Name: Melody Fischer (525)			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other: SonoSite (MMR)	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	Ann Spellman
	Clinical Assessment Data Sheet?	Y / (N)
REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating? NA	Y / N NA
MONITORING	Heartrate: Stethoscope EKG Doppler (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)
FREEZE BRAND	Letters/Numbers applied: K2	Applied by: SWF
	Location(s): RT Dorsal Shoulder	

Manatee ID: REC1408 / SWFWM1408B3 Capture ID: NA Date: 19 January 2016

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	
SAMPLES Milk?	Y / N volume: ___ ml	Refrig / Freeze		
Urine?	Y / N	Refrig / Freeze / EtOH		
Fecal?	Y / N	Freeze / EtOH		
Skin Scraping?	Y / N Location:	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / N Location:	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / N Location:	Freeze / / DMSO		
Mucosal Swab?	Y / N Oral / Rectal	Refrig		
Other?	Y / N Tear Film /	Freeze /		
PIT TAG	Scanned for previous PIT tag?	Y / N PIT tagged at this capture?	Y / (N)	
	PIT tagged by:	SeaWorld		
	Right #	0A-074F-0049		
	Left #	0A-074E-EEEE1A		
TELEMETRY	Tag Type	Argos-GPS / PTT / VHF		
Combat **TAG**	Tag ID#	69244		
S2S	Tag / Antenna Color(s)	Tag: orange/yellow Antenna: yellow white		
Melody Fischer for all tag info **BELT**	VHF Frequency	164.939 MHz		
	Tag Sonic ID FWC	Freq kHz Code PI msec		
	ID# / Size / Color	FWC S2S Length: ___ in. Color: RED		
	Belt Sonic ID: FWC 3-7-5-8	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	Left / Right ___ inches		
	CR2a Programmed Release	Y / N Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			
TETHER	Strength / Joiner / Length	Strength: hs / tcc	Length: ft.	
	Tagged by:			
PHOTOGRAPHS	Taken by:	Ann Spellman		
	Exposures:	FWC025_2016_01_19_3643-3669		
SKETCHES	Sketched by:	Ann Spellman		

COMMENTS

Free ghosted "KZ" @ SWF

Manatee Information (MLog:**1566**)

Animal ID:**SWFTm1403B** Sex:**F** Name:**Shirley** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Freeze-brand **Date Applied:** 12/03/2015 **Tag ID** K2

Tag ID K2

Information: Animal was FB with K2 in two sites, between the right and left shoulder and just above the peduncle.

Event: Release **Event Date** 01/19/2016

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 02/18/2016

Updated By: D **Updated Date:** 02/18/2016

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 11/20/2014 **Tag ID** 00074EFE1A

Tag ID 00074EFE1A

Information: Pit tagged in left shoulder with #00074EFE1A for future release.

Event: Rescue **Event Date** 01/28/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/20/2014

Updated By: D **Updated Date:** 11/20/2014

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 11/20/2014 **Tag ID** 00074F0049

Tag ID 00074F0049

Information: Pit tagged in right shoulder with #00074F0049 for future release.

Event: Rescue **Event Date** 01/28/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 11/20/2014

Updated By: D **Updated Date:** 11/20/2014

death 4/3/17 Resc/Rel 3/2/14 1/19/16

Rescue Report

REC1404

Calf by itself Cold Stress

GENERAL

Date of Rescue: 02 March 2014 Date of Initial Call: 02 March 2014 Filed by: A. Etherington

Rescue ID: REC1404 Facility ID: LPZ103154 Other ID: Hammock

FWC Case Number: 2222 FWC Region: NE Orlando

Sex: Male Length: 135 cm Estimated: No Weight: 47 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Titusville County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.50543° N Longitude (Decimal Degrees): - 80.78008° W

Locality Description: along the northern shoreline, in shallow water off Manatee Hammock Campground, 7275 U.S. 1.

Method of Capture: Land-based capture net

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☒ Orphan ☐ Other: (Specify): _____

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☒	☒
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
02 March 2014	At 1151 hrs, FWC biologist-Amy R. Etherington (ARE) received a text alert from FWC NE Dispatch-Orlando regarding a possible orphaned calf in Titusville, Brevard County. FWC case number 2222 was assigned. The complainant, Joyce Edwards (609-680-1866), had reported a small manatee by itself in shallow water along the shoreline on the northern side of Manatee Hammock Campground property. ARE contacted FWC volunteer-Angela R. Preston (ARP) to request assistance with verification. By 1350 hrs, ARP arrived on scene and verified that the calf was by itself and approximately four feet in length. En-route to the calf, ACS contacted FWC-Andy Garrett to advise him of

	the possible orphan. ACS also contacted SeaWorld to see if they could accept the calf, but the BARP pool was full and they could not accommodate the calf. ACS then called Lowry Park Zoo and obtained permission to take the calf there. By 1420 hrs, ACS and ARE arrived on scene with the transport truck. ACS and ARE verified that the calf was alone in shallow water, not "parked" based on the open, unprotected location and behavior, and in need of rescue. With the help of ARP and volunteer, Tom Preston, the calf was captured using a small capture net then placed in water in the medium sized inflatable pool in the transport truck. The calf was transported to the Lowry Park Zoo, arriving by approximately 1700 hrs.

PARTICIPANTS

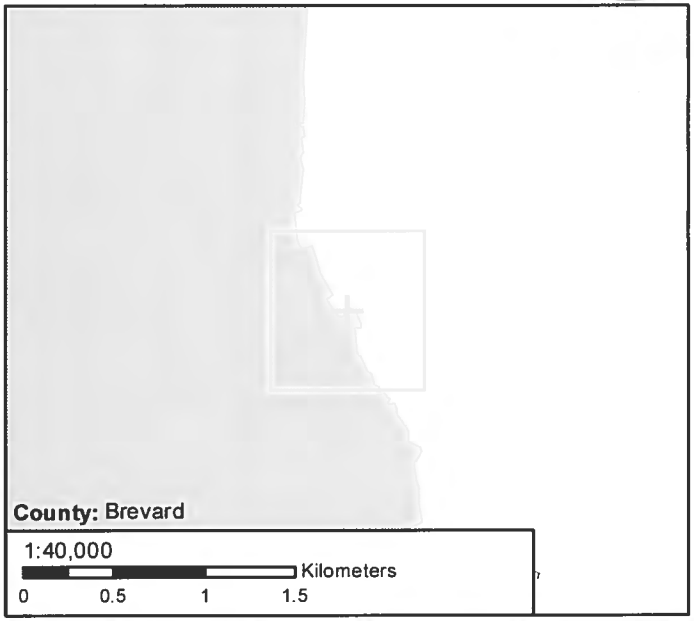
FWC EC: A. Spellman, A. Etherington
FWC Volunteer: A. Preston, T. Preston

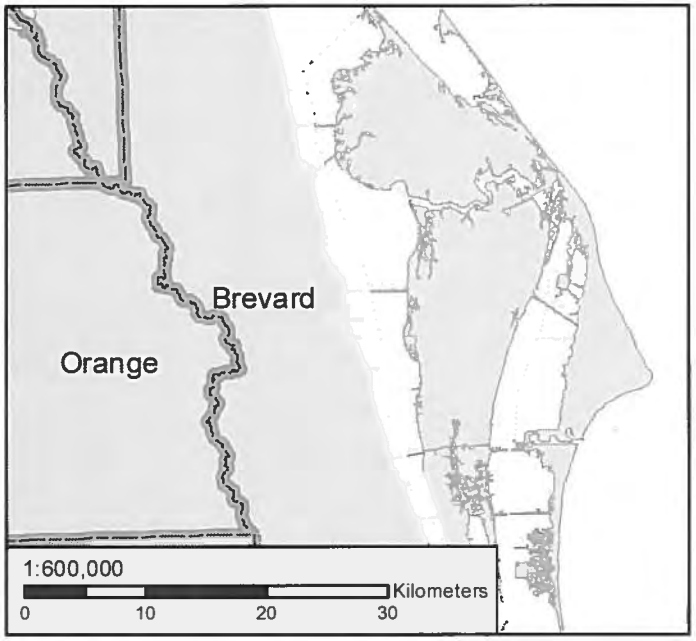
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1404

Rescue Date: 3/2/2014 **Facility ID:** LPZ103154 Map Created 10/9/2015





Locality Description:
along the northern shoreline, in shallow water off Manatee Hammock Campground, 7275 U.S. 1.

Latitude: 28.50543°N **Longitude:** -80.78008°W

Kesa
Calf by itself
"Hammock" LPZ103154
REC1404

Szemer, Donna

From: Ray Ball [Ray.Ball@lowryparkzoo.com]
Sent: Monday, March 03, 2014 12:29 PM
To: Garrett, Andy; Adrienne Atkins; Amy Teague; Andrew Gude; Barlas, Margie; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: RE: Rescue Update

The Titusville manatee arrived around 5pm. He was 104#, 135cm long. Severely emaciated and has a few cutaneous abscess especially on the right pec. Blood glucose was 62mg/dl, PCV 42%; WBC was very high as was platelets and globulins. Fecal Hemacult negative.
He received NSAIDS and SQ antibiotics but I managed only a few mls of blood and did not have a good feeling about IV antibiotics at the time. He took several ounces of fluids for immediately and over the evening a total of 14oz from a bottle. He was pretty heavy in the water and managed in only about 2ft overnight.

This am he is brighter, taking small amounts of fluids and is eating endive, and is able to keep himself off the pool floor better. We added an additional antibiotic today and will continue for the short term with supportive care.

Thanks

ray

From: Garrett, Andy [mailto:Andy.Garrett@MyFWC.com]
Sent: Monday, March 03, 2014 9:20 AM
To: Adrienne Atkins; Amy Teague; Andrew Gude; Barlas, Margie; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Stefanie Barrett; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update

Titusville:

Yesterday afternoon, the FWC-ECFL responded to a report of a 3-4 ft lone manatee in Titusville. When the FWC biologists arrived on-scene, they observed a small manatee that looked to be underweight with cold stress. The 144 cm male manatee was captured and taken to Lowry Park Zoo.

Port Charlotte:

On Friday the FWC-SWFL confirmed a report of a crab trap entangled 8 ft manatee in the Peace River. Due to the time of day, a rescue could not be conducted. Yesterday, the SWFL received another report of the manatee 10 miles from

the previous location in the Myakka River. The SWFL will work to attached a vhf tag to the entanglement and organize a rescue the next time the manatee is reported.

-Andy

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LPZ 103154 Temporary ID: _____ Time Net Set: _____

Name: Hammock (REC1404) Date: 09 JULY 2015 Time Captured(Onboard): _____

ID of its Calf / Mom: _____ Sex: (M) / F Time On Beach: _____

Location: Lowry Park Zoo Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue X Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: A. Garrett

Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 625	Manatee + stretcher 755	Stretcher weight 130
Lengths	Total Length (curvilinear) (cm)	245	
	Total Length (straight)	224	
	Snout to Peduncle	168	
	Snout to Anus	154	
	Snout to Umbilicus	82	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: 96 cm	Belt Loc: in
	Girth at Anus: actual or ½	120	
	Girth at Umbilicus: actual or ½	181	
	Girth at Axilla: actual or ½	144	

ULTRASOUND Reader Name:

Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	8.9	12.9	11.9
Other: Sonosite (mm)	2	8.8	12.7	12.1
	3	8.3	13.0	11.9

CONDITION	Body Score: 1 2 3 (4) 5 Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle: (Rounded) / Flat / Concave	
	Ventrum: (Rounded) / Flat / Concave / Ventral Folds	
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)
SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter (None)	**Data Sheets**? Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)

Manatee ID LP2 103154 Manatee Name: Hamrock Date: 09 July 2015

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			(L) / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue: 1	Red: 2	Purple: /
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag? (Y) / N	PIT tagged at this capture? (Y) N		
	PIT tagged by: AJG	A. GARRETT		
Entered PIT 8/20/15 Pat Captive	Right # 00072A895E	00 00 - 00 72 A - 8 9 5 E		
	Left # 00072AC8E2	00 00 - 00 72 A - C 8 E 2		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	A. GARRETT		
	Exposures:	0642 - 0648		
SKETCHES	Sketched by:	N/T (No Scars)		

Comments

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LPZ103154 Temporary ID: _____ Time Net Set: _____

Name: Hammock (REC1404) Date: 30 NOV 2015 Time Captured(Onboard): _____

ID of its Calf / Mom: _____ Sex: (M) / F Time On Beach: _____

Location: Lowry Park Zoo Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue X Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: KJR/GLL/M. Vander Meiet

Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb) or kg) ~~700~~ 705 lb.	Manatee + stretcher 830 lb.	Stretcher weight ~~130~~ lb.
Lengths	Total Length (curvilinear) (cm)	254 cm	(125 lb)
	Total Length (straight)	234 cm	
UG: 102 cm	Snout to Peduncle	171 cm	
	Snout to Anus	155 cm	
	Snout to Umbilicus	87 cm	
Girths	Girth at Peduncle: ~~actual~~ or ½	Ultrasound Loc: 102 cm Belt Loc: in	
	Girth at Anus: ~~actual~~ or ½	131 cm	
UG: 183 cm	Girth at Umbilicus: ~~actual~~ or ½	182 cm	
	Girth at Axilla: ~~actual~~ or ½	143 cm	

ULTRASOUND Reader Name: Dr. Ray Ball

Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/ 10.0mm	/ 15.1mm	/ 13.7mm
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 (4) 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle: ~~Rounded~~ / Flat / Concave	
	Ventrum: ~~Rounded~~ / Flat / Concave / Ventral Folds	
	Fresh Wounds or Lesions: Y / (N) (describe in comments)	
	Person(s) assessing condition: KJR	
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)
SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / (N) Refrig / Freeze
	Fecal? stored?	Y / (N) Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / (N) Refrig / Freeze / DMSO
	Cookie?	Y / (N) Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)

Manatee ID LPZ103154 Manatee Name: Hammock Date: 30

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			(L) / R
	2			L / R
	3			L / R
	Drawn by: Dr. Ray Ball			
	# Tubes of Blood Collected	Blue: 1	Red: 2	Purple: 1
	Total = 4	Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	Y / (N)
	PIT tagged by:	already tagged		
	Right #	00-072A-895E		
	Left #	00-072A-C8E2		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by: GLL			
	Exposures: FWC022 _	1065-1082		
SKETCHES	Sketched by: M. Van der Maelen			

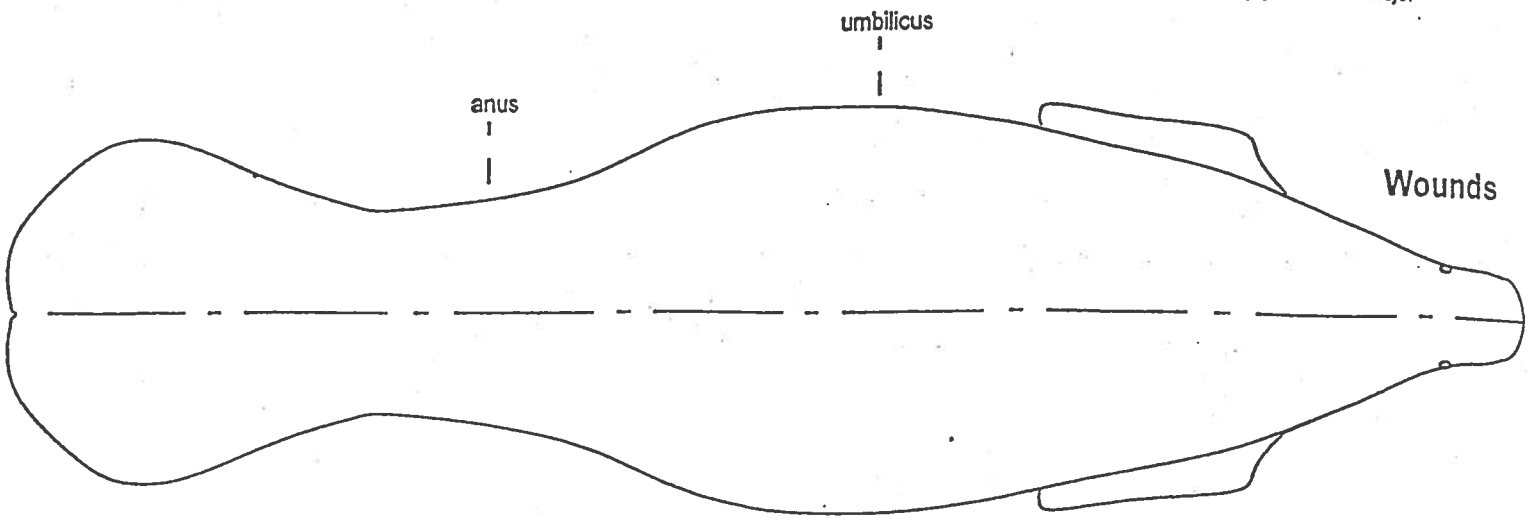
Comments

Date 30NOV2015

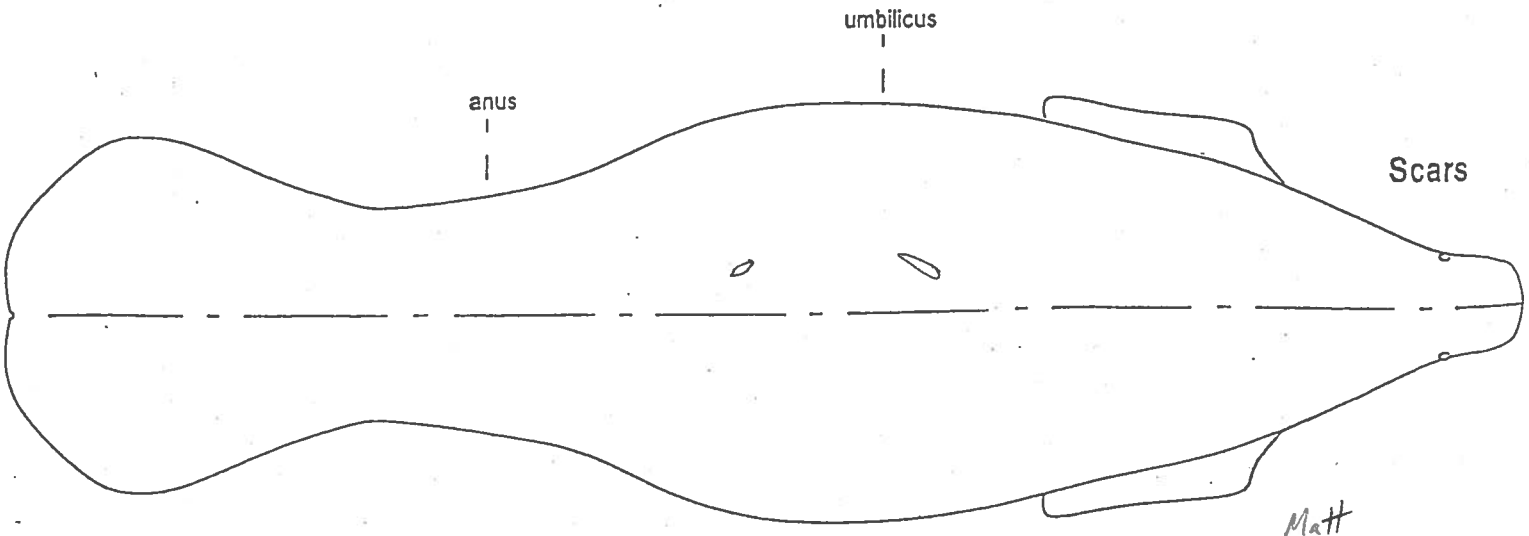
Field I.D. LPZ103154

Hammock

c:\D-Old\Necropsy\scar2dat\30May01



Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				



Matt
Van der Maelen

News 13

"Hammock"
LP2103154
REC1404

Four rehabilitated manatees returned to the wild

Last Updated: Tuesday, January 19, 2016, 5:56 PM

ORLANDO --

Four rehabilitated manatees were returned to the wild Tuesday in a multi-organization effort led by Florida Fish and Wildlife Conservation Commission (FWC).

The four rescued and rehabilitated manatees were returned back to their natural water ways by a large group of Florida's marine mammal experts -- including SeaWorld Orlando's Animal Rescue Team, Tampa's Lowry Park Zoo and the Miami Seaquarium.

The marine mammal experts worked together to return the manatees near the warm water outfall of the Port St. John power plant in Brevard County. The area will provide them with a warm water site during the current cold snap.

SeaWorld says the reason manatees are returned during cooler weather is because other wild manatees naturally congregate in specific warm water sources during these periods. Doing this allows the new animals to acclimate to a larger group, from which they can learn migratory patterns once the weather warms up. It also allows the newly-released manatees to familiarize themselves with a specific warm water site to return to the next time temperatures cool down.

The two animals released by SeaWorld were particularly special, including the 500th manatee rescued by the park, and an animal that was rescued two years ago as a tiny, 121-pound orphan that now weighs 705 pounds.

Manatees Returned:

Quincentariat- This juvenile male manatee was rescued on May 10, 2014 from the Banana River in Cape Canaveral due to cold stress. He was the 500th manatee rescued by the SeaWorld Orlando Animal Rescue Team. At the time of rescue he weighed 286 pounds, measuring 6 feet in length. The healthy manatee now weighs over 735 pounds, measuring more than 8 feet long.

Shirley- The orphan female calf was rescued on January 28, 2014 from the De Soto Canal in Brevard County. At the time of rescue she weighed 121 pounds and measured 4 feet 8 inches in length. The healthy and independent manatee now weighs 705 pounds and measures 7 feet 8 inches long.

Hammock- A young male patient named "Hammock" was rescued in March of 2014 from Indian River as an orphan, and will now receive a second chance at life in the wild after nearly two years of rehabilitation at the Manatee Hospital at Tampa's Lowry Park Zoo.

Abigail- In March 2013, Abigail was rescued from the Indian River system near Merritt Island in Brevard County, Florida. Suffering from cold stress, Abigail received critical care at Sea World Orlando and then was transferred to Cincinnati Zoo for rehabilitation. Then, in October of 2015, Abigail arrived at Miami Seaquarium to become acclimated to the natural diet and brackish water found in the region. She is estimated to weigh approximately 700-800 pounds and estimated to be between 3-5 years old.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/19/four_rehabilitated_m.html

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MNE17011**
Date of Report: 2017-Apr-03
Filed By: FWC NE Field Station

FWC Case # 3957 **FWC Region:** NE

Sex: Male **Length:** 235 **cm** (estimated) **Weight:** Not Taken **kg**

DATE REPORTED: 2017-Apr-03 **By:** Citizen to FWC NE Dispatch

DATE COLLECTED: 2017-Apr-03 **By:** FWC-ACP

DATE NECROPSIED: 2017-Apr-04 **By:** FWC-NJG,ACP

LOCATION: **State:** FL **Latitude:** 29.17217 **N**
County: Volusia **Longitude:** -80.98591 **W**
Waterway: Halifax River
Locality description: Daytona Beach, beached behind 2904 S. Peninsula Drive.

CONDITION: Badly Decomposed

PROBABLE CAUSE OF DEATH: Undetermined: Too Decomposed

EXPLAIN: The advanced stage of decomposition did not permit a causal factor to be determined. Autolyzed and/or missing internal organs. Depleted fats; Cold stress lesions; Empty upper GI tract.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone.

DISPOSITION OF MATERIAL: FWC NE Field Station pending distribution.

ADDITIONAL DATA:

REMARKS:

PIT tag scan positive (Left: 00-072A-C8E2; Right: 00-072A-895E). A field necropsy was performed. Known as LPZ103154, REC1404, TBC122, "Hammock". Actual length of the remains was 221 cm.

Page 1&2	02 Oct 2018
Necropsy Report	02 Oct 2018
Lat/Long	02 Oct 2018

Field ID #: MNE17011

MORPHOMETRICS:

Total length:	235 cm	Fluke base:	cm	Girth at axillae:	cm
Snout to anus:	cm	Fluke width:	cm		
Snout to U/G:	cm	Girth at fluke base:	cm		
Snout to umbilicus:	cm	Girth at anus:	cm		
Flipper width:	cm	Girth at umbilicus:	cm	Nail count: R:	L:

	Ventral	Lateral		
Skin Thickness:	cm	cm		
Outer Blubber Thickness:	cm	cm	Abdominal Fat Thickness:	cm
Inner Blubber Thickness:	cm	cm	Epidermis Thickness:	cm

Perinatal:

Ductus Arteriosis Diameter:	cm
Left Pulmonary Artery Diameter:	cm
Right Pulmonary Artery Diameter:	cm

Uterine Scarring Measurements:

Side	Circumference (cm)	Width (cm)
Right		
Right		
Left		
Left		

Male Reproductive:

Fetus 1: Sex: Report?:

Length:
Weight:
Samples Taken:

Fetus 2: Sex: Report?:

Length:
Weight:
Samples Taken:

Brevetoxin Results:

Tissue	Concentration	Units
Liver		ng/g
Stomach Contents		ng/g
Kidney		ng/g
Lung		ng/g
Urine		ng/mL

Other Brevetoxin Results:

Rese / Rel
1/20/15

Rescue Report

REC1405

Human-Other

General

Date of Rescue: 26 March 2014 Date of Initial Call: 25 March 2014 Filed by: C. Rush

Rescue ID: REC1405 Facility ID: LPZ103114 Other ID: "Pixie," SWFTM1024, RNE1008

FWC Case Number: 3001, 3040, 3175 FWC Region: NE (Orlando)

Sex: Female Length: 236 cm Estimated: No Weight: 295 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R: 00-06DD-9101 L: 00-06DD-4DD1

State: FL City: Orange City County: Volusia Waterway: St. Johns River

Latitude (Decimal Degrees): 28.94293° N Longitude (Decimal Degrees): -81.34161° W

Locality Description: Blue Springs State Park, at the canoe beach of Blue Spring State Park (2100 W. French Ave.)

Method of Capture: Net set from land.

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Inappropriate association with humans

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☒
Animal Before Rescue	☐	☒
Actual Rescue	☐	☒
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
26 January 2014	A rehabilitated manatee named "Pixie" was released at Blue Spring State Park. Biologists that had been conducting in-water field work were concerned with her interest in swimmers. The spring run was open to the general public for swimming on15 March 2014 and it quickly became apparent to park staff that she was maladjusted to be in the spring run with the public. Not only was "Pixie" observed being harassed by the swimming public, but she was also observed grabbing onto swimmers and being overaggressive. Volunteers unsuccessfully attempted to keep Pixie and the swimmers apart. FWC-LE presence was requested to control the public's interactions with "Pixie". An emergency conference call was held to resolve the dispute over whether to keep the spring run closed. A decision was made by the USFWS to capture "Pixie" and bring her back to a rehabilitation facility.
25 March 2014	FWC-Rescue Program Coordinator Andy J. Garrett (AJG) contacted FWC-biologist Ann C. Spellman (ACS) and requested that "Pixie" be captured as soon as possible. ACS contacted FWC staff and FWC-volunteers to assemble a rescue team for the following day.
26 March 2014	At approximately 1015 hrs, the rescue team arrived at the Blue Spring State Park. FWC-volunteer Diane S. Schwartz (DSS) was instructed by ACS to stay in the water with "Pixie" before FWC staff arrived. Meanwhile, Save the Manatee Club-Wayne Hartley was in the canoe next to her. "Pixie" had been pacing back and forth between the canoe beach and first observation deck all morning. FWC-Christine N. Rush (CNR) and ACS joined DSS in the water to guide "Pixie" to the land-net which was located at the canoe beach. "Pixie" followed the swimmers into the net. She was then pulled ashore onto the canoe beach and placed into a stretcher. "Pixie" was then transported to the Lowry Park Zoo for further rehab.

PARTICIPANTS

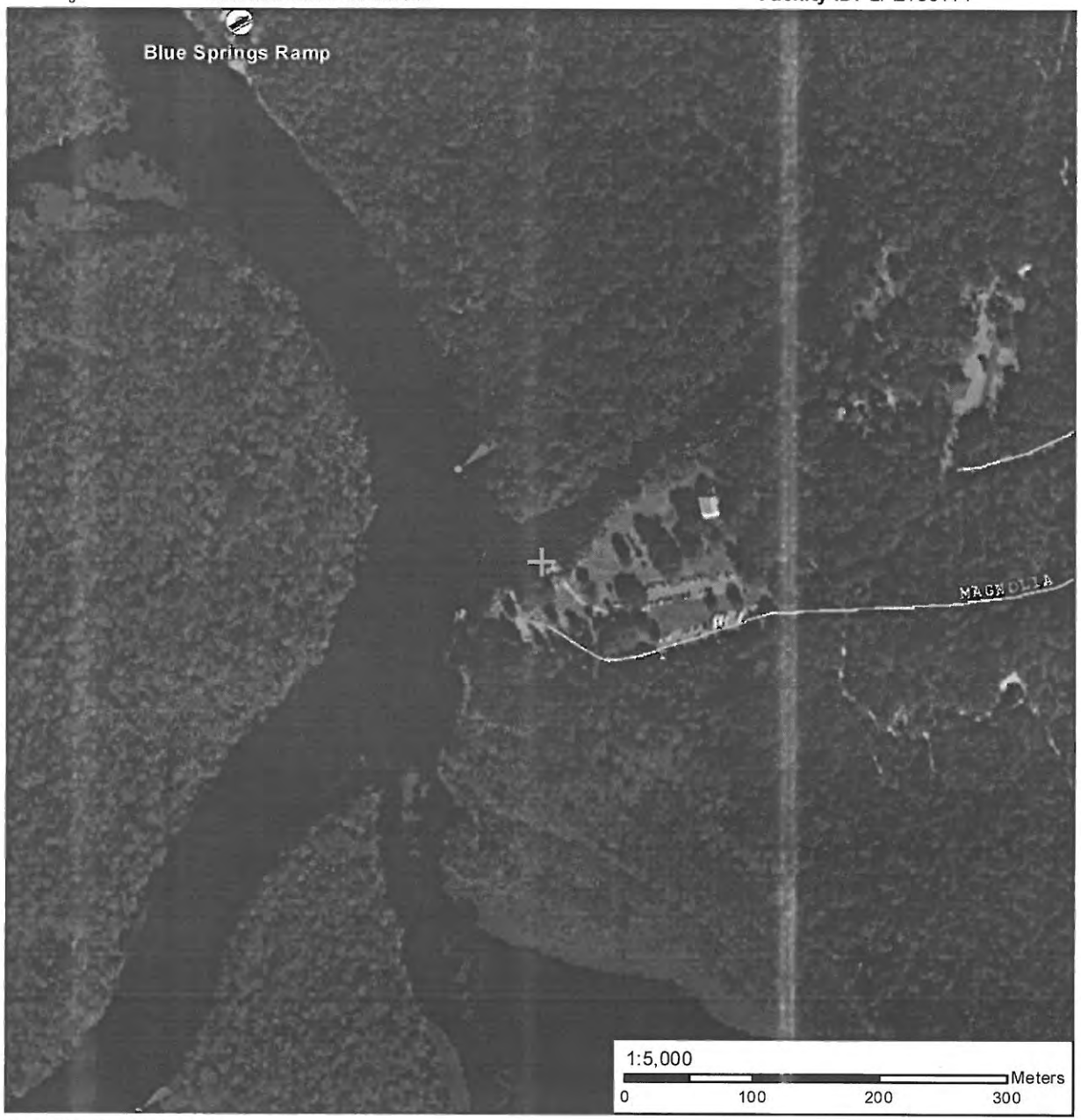
FWC EC: C. Rush, A. Spellman, A. Etherington
FWC Volunteers: L. Cross, J. Herr, K. Vaughn, E. Nugebauer, D. Schwartz
Save the Manatee Club: W. Hartley
Sea to Shore: Z. Johnson
Volusia County: T. Hannah

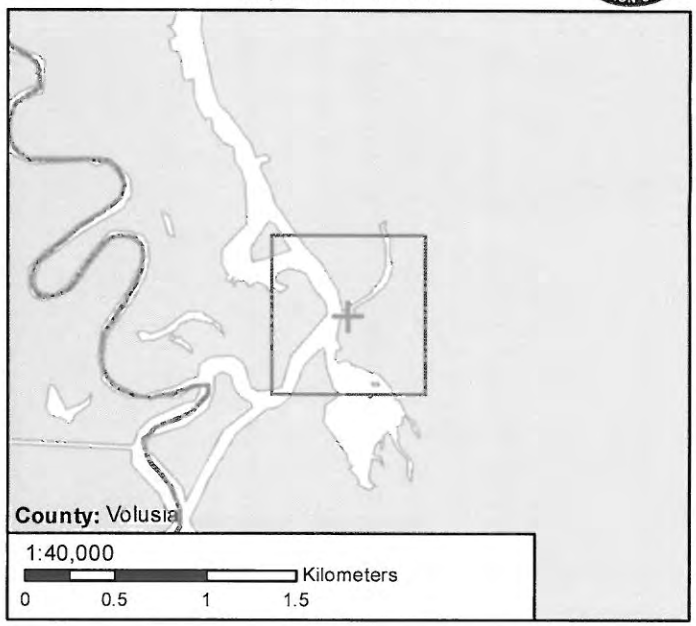
Edited by:
TRR
DJS
AJG

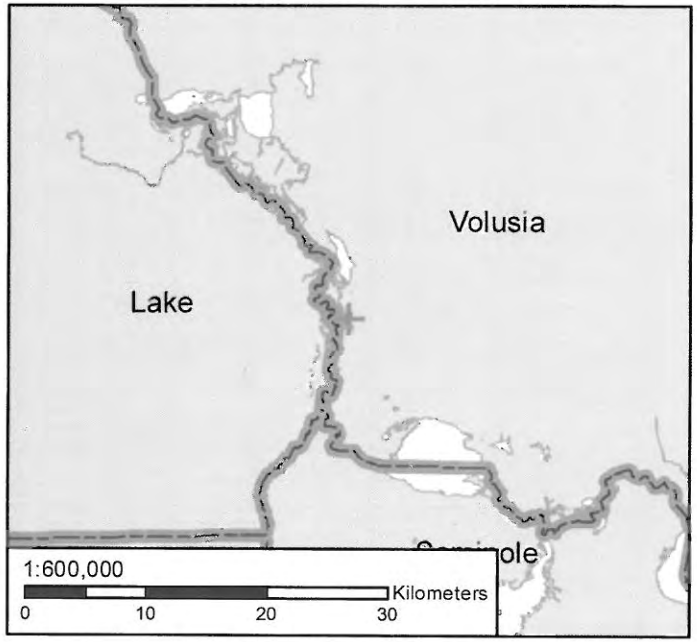
(02/20/2013)

Verified Response Location of Manatee Rescue REC1405

Rescue Date: 3/26/2014 **Facility ID:** LPZ103114 Map Created 10/9/2015







Locality Description:
Blue Springs State Park, at the canoe beach of Blue Spring State Park (2100 W. French Ave.)

Latitude: 28.94293°N **Longitude:** -81.34161°W

Rood

Human Harassment

Szemer, Donna

From: Virginia Edmonds [Virginia.Edmonds@lowryparkzoo.com]
Sent: Thursday, March 27, 2014 1:16 PM
To: Szemer, Donna
Subject: RE: rescue update and alert

"Pixie"

Hmmmm. Good question. I guess I would put other/human related and I will add notes that she is harassing humans and in turn, being harassed

REC1465
LPZ103114
SWFHM10245

From: Szemer, Donna [mailto:Donna.Szemer@MyFWC.com]
Sent: Thursday, March 27, 2014 1:04 PM
To: Jim Valade; Virginia Edmonds
Subject: FW: rescue update and alert

Hi!

How are you going to categorize the rescue for Pixie?

We don't have a category for manatee harassment of humans...

Donna

From: Garrett, Andy
Sent: Thursday, March 27, 2014 11:51 AM
To: Adrienne Atkins; Amy Teague; Barlas, Margie; Bill Hughes; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: RE: rescue update and alert

Pixie has been captured and will be taken to Lowry Park Zoo.

From: Garrett, Andy
Sent: Thursday, March 27, 2014 8:57 AM
To: 'Adrienne Atkins'; 'Amy Teague'; Barlas, Margie; 'Bill Hughes'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue update and alert

Stewart:

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LP2103114 Temporary ID: _____ Time Net Set: _____

Name: PIXIE (SWFTM1023'13) Date: 04 DEC 2014 Time Captured(Onboard): _____

ID of its Calf / Mom: (REC1405/RNE1008) Sex: M / (F) Time On Beach: _____

Location: LOWRY PARK ZOO Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue X Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: K. Rigney

Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 870 lb	Manatee + stretcher 1000 lb	Stretcher weight 130 lb
Lengths	Total Length (curvilinear) (cm) 270		
	Total Length (straight) 249		
	Snout to Peduncle 189		
	Snout to Anus 168	164	
	Snout to Umbilicus 89		
Girths 113	Girth at Peduncle: ~~actual~~ or ½	Ultrasound Loc: cm	Belt Loc: 166cm in
U/G 170 161	Girth at Anus: (actual) or ½		
209	Girth at Umbilicus: (actual) or ½		
164	Girth at Axilla: (actual) or ½		

ULTRASOUND	Reader Name: Dr. Ball			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/ 1.66cm	/ 2.36cm	/ 2.35cm
Other: SONOSITE	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 Poor 2 Fair (3) Good (4) Very Good 5 Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle: (Rounded) / Flat / Concave	
	Ventrum: (Rounded) / Flat / Concave / Ventral Folds	
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	KTR

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)

SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / (N) Refrig / Freeze
	Fecal? stored?	Y / (N) Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / (N) Refrig / Freeze / DMSO
	Cookie?	Y / (N) Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal None Y (N)
	Respiratory Rate? Y (N) Y (N)

Manatee ID LPZ103114 Manatee Name: Pixie Date: 04 Dec 2014

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			(L) / R
	2			L / R
	3			L / R
	Drawn by: RAY BALL			
	# Tubes of Blood Collected	Blue:	Red: 1	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	Y / (N)
	PIT tagged by:			
	Right #	0 0 - 0 6 D D - 9 1 0 1		
	Left #	0 0 - 0 6 D D - 4 D D 1		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type Temp	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
Temp	**BELT** Number / Belt Color Red	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:		Length: ft.
	Tagged by:			
PHOTOGRAPHS	Taken by: ALP			
	Exposures: FWC023	FWCC	5958 → 5970	
SKETCHES	Sketched by:			

Comments

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REHAB AND RELEASE

Manatees Sarge and Pixie return to the wild at Blue Spring

Sarge - SWFTM1319B
RLE1319

Pixie - SWFTM1024B
LP2103114
REC1405

SeaWorld, others rehab sea cows for their release into the St. Johns River system

By Dinah Voyles Pulver
dinah.pulver@news-jrnl.com
Published: Tuesday, January 20, 2015 at 4:35 p.m.

Amid cheers and clapping from a large audience watching from the boardwalk above at Blue Spring State Park, the manatees Pixie and Sarge were returned to the St. Johns River on Tuesday.

The people who help oversee the health of the endangered manatees in the river hope that's where both manatees will stay.

The manatees were previously rescued from the St. Johns because of concerns for their well-being. Tuesday's release was coordinated by SeaWorld Orlando's animal rescue staff, the Lowry Park Zoo, the nonprofit Sea to Shore and the Florida Fish and Wildlife Conservation Commission.

Pixie and Sarge were fitted with satellite tracking tags so that Sea to Shore — and the public — can keep tabs on where the manatees are going and how they are doing. Meanwhile, state park employees and the wildlife commission are keeping watch over another orphaned calf at Blue Spring to determine if it needs to be rescued, said Ann Spellman, a wildlife commission biologist.

Sarge was rescued at Green Cove Springs in November 2013, suffering from cold stress. Nearly full-grown, he weighed only 345 pounds. He was nursed back to health with antibiotics, tube feedings and months of rehabilitation.

Melody Fischer with Sea to Shore said the group will leave the satellite tag on for a few months to make sure he is using adequate warm water refuges like Blue Spring when it's cold.

Pixie was orphaned as a calf in the Halifax River in Daytona Beach, weighing just 42 pounds. She was rescued and taken to SeaWorld Orlando and also spent some time at the Columbus Zoo and Aquarium.

She was released in Blue Spring a year ago, but she loved people and kept approaching swimmers at the park. Wildlife officials decided for her own safety she should be picked up again to undergo additional training. They were afraid if she stayed in the river, she might get injured while trying to approach people in watercraft.

Pixie was recaptured last March and taken to Lowry Park Zoo in Tampa for behavior conditioning. Park staff worked to get her to socialize with manatees instead of people. SeaWorld veterinarian Dr. Lara Croft said she hopes that Pixie will "act more like a manatee" this time.

"We're hoping she uses the warm water refuge, that she interacts with other manatees and that she's finding natural food sources," Croft said.

"Sea to Shore will monitor Pixie's progress to be sure she's gaining body weight and that she returns to Blue Spring next winter when it gets cold," said Croft, one of the veterinarians who treated Pixie as a calf.

To track the manatees, visit wildtracks.org

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myNews13

SeaWorld Orlando returns two manatees to Blue Spring State Park

Sarge
SWFTM1319B
RNE1319

Pixie -
SWFTM1024B
LP2103114
REC1405

SeaWorld Orlando's Animal Rescue Team returns Sarge to the waters of the St. Johns River at Blue Spring State Park (PHOTO/SeaWorld Orlando)

SeaWorld Orlando's Animal Rescue Team preparing a male manatee, Sarge, for his return to the waters of Blue Spring State Park. (PHOTO/SeaWorld Orlando)

Last Updated: Wednesday, January 21, 2015, 7:32 AM

ORANGE CITY –

Two manatees that have been cared for at SeaWorld Orlando since 2010 and 2013 were returned to Blue Spring State Park in Orange City Tuesday.
The adult male, Sarge, was originally rescued due to cold-stress by The Florida Fish and Wildlife Conservation Commission on Nov. 6, 2013 from Green Cove Springs, Fla. and transported to SeaWorld Orlando, where he received months of medical treatment and rehabilitation.

The SeaWorld Orlando Animal Rescue Team returned Sarge along with a female manatee, Pixie. She was originally rescued in 2010 by the FWC as an orphaned calf, and received care at SeaWorld Orlando, Columbus Zoo and Aquarium, and Tampa's Lowry Park Zoo.

She was returned in 2014, and subsequently rescued for further conditioning.
So far in 2015, SeaWorld Orlando has rescued three and returned one manatee back to its natural environment.

If you see an injured marine animal, you can help by calling the FWC hotline at **(888) 404-3922** or by dialing *FWC on a cellular device.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2015/1/21/seaworld_orlando_ret.html

Resc/Rel 1/19/16

Rescue Report

REC1406

Calf by itself (buoyant prob.)

GENERAL

Date of Rescue: 10 May 2014 Date of Initial Call: 10 May 2014 Filed by: C. Rush

Rescue ID: REC1406 Facility ID: SWFTm1406b Other ID: Quincentariat

FWC Case Number: 5024 FWC Region: NE

Sex: Male Length: 187 cm Estimated: No Weight: 129.5 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Cape Canaveral County: Brevard Waterway: Banana River

Latitude (Decimal Degrees): 28.37201° N Longitude (Decimal Degrees): -80.61008° W

Locality Description: At the mouth of a retention pond, approximately 14 m NW of the south-west corner of 5807 N. Banana River Blvd. Unit 1211

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☒ Other: (Specify): Asymmetrical, positively buoyant	

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
10 May 2014	At 1154 hrs, FWC-biologist Christine N. Rush (CNR) responded to a text alert from FWC NE Dispatch-Orlando regarding a possible orphaned calf in Cape Canaveral. FWC case number 5024 was assigned. The complainant, Jackie Taylor (630-995-6893), reported that the small manatee had been in a cove behind her apartment since the evening before and was all alone. CNR sent FWC volunteer Angela R. Preston (ARP) to verify the size of the manatee. Meanwhile, CNR contacted FWC volunteer Jen Curren (JC) to put her on standby. ARP contacted CNR by 1230 hrs and informed her that it was a very small calf that it was positively buoyant and staying in the mangroves. CNR

	contacted SeaWorld-Randy Runnells to inform him of the small calf and verify that they could accept it once rescued. CNR also contacted FWC Rescue Coordinator Andy J. Garrett (AJG) to inform him of the situation. CNR arrived on scene and met ARP and FWC-volunteer Tom Preston (TP). CNR assessed the manatee and agreed that the manatee was lethargic and asymmetrically, positively buoyant. No other manatees were in the area. CNR, ARP, and TP blocked off the entrance to the retention area with a small net. Once JC arrived to assist with the rescue, she took TP's place on the net and TP launched a kayak to move the manatee towards the net. Once the manatee was in position, it was bagged and pulled up a small embankment onto the shore. The manatee appeared very lethargic at the time of capture. The manatee was rescued by 1530 hrs and transported to SeaWorld by 1640 hrs.

PARTICIPANTS

FWC EC: C. Rush

FWC Volunteers: A. Preston, T. Preston, J. Curren

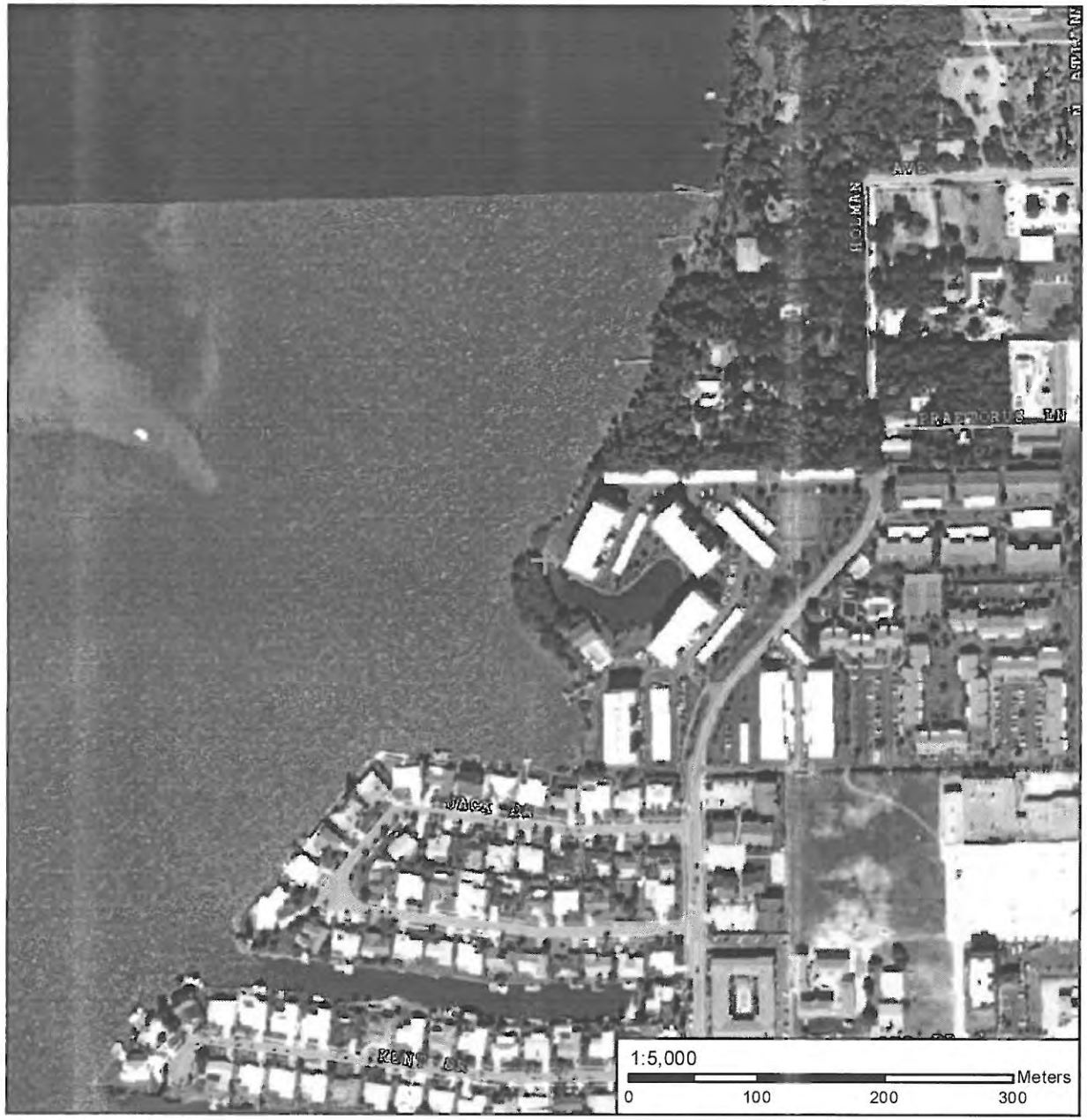
Edited by:

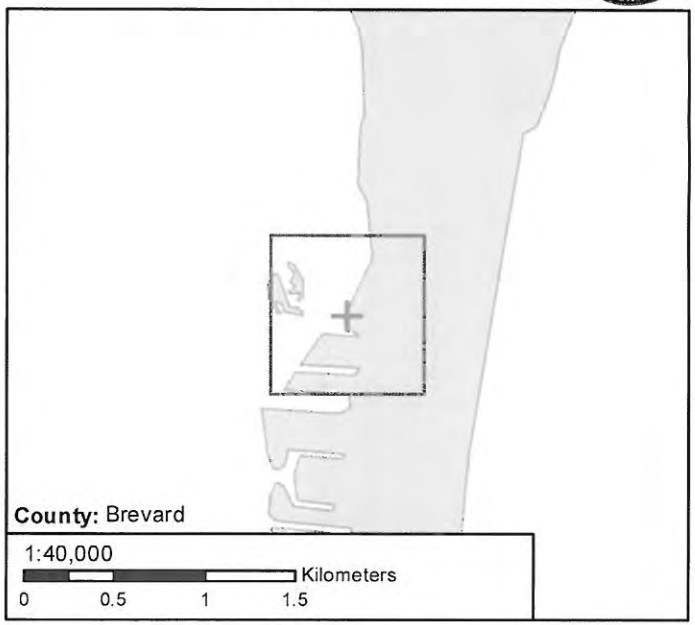
TRR
DJS
AJG

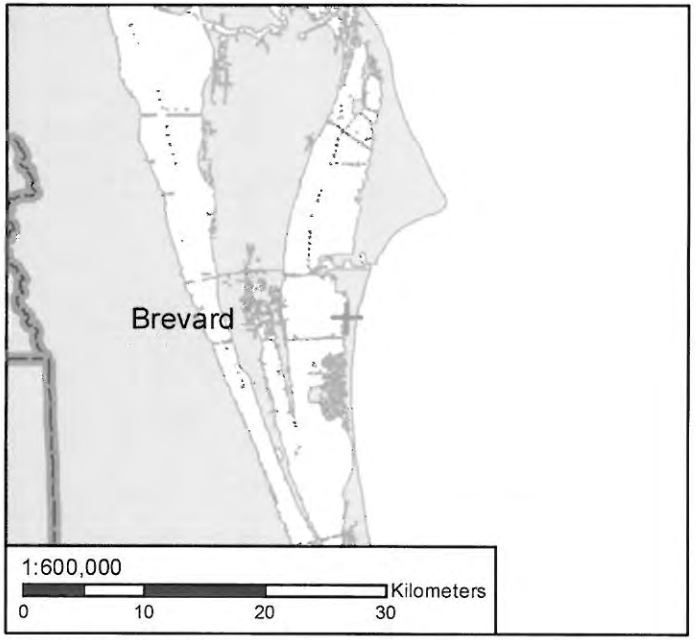
(02/20/2013)

Verified Response Location of Manatee Rescue REC1406

Rescue Date: 5/10/2014 **Facility ID:** SWFTm1406b Map Created 10/9/2015



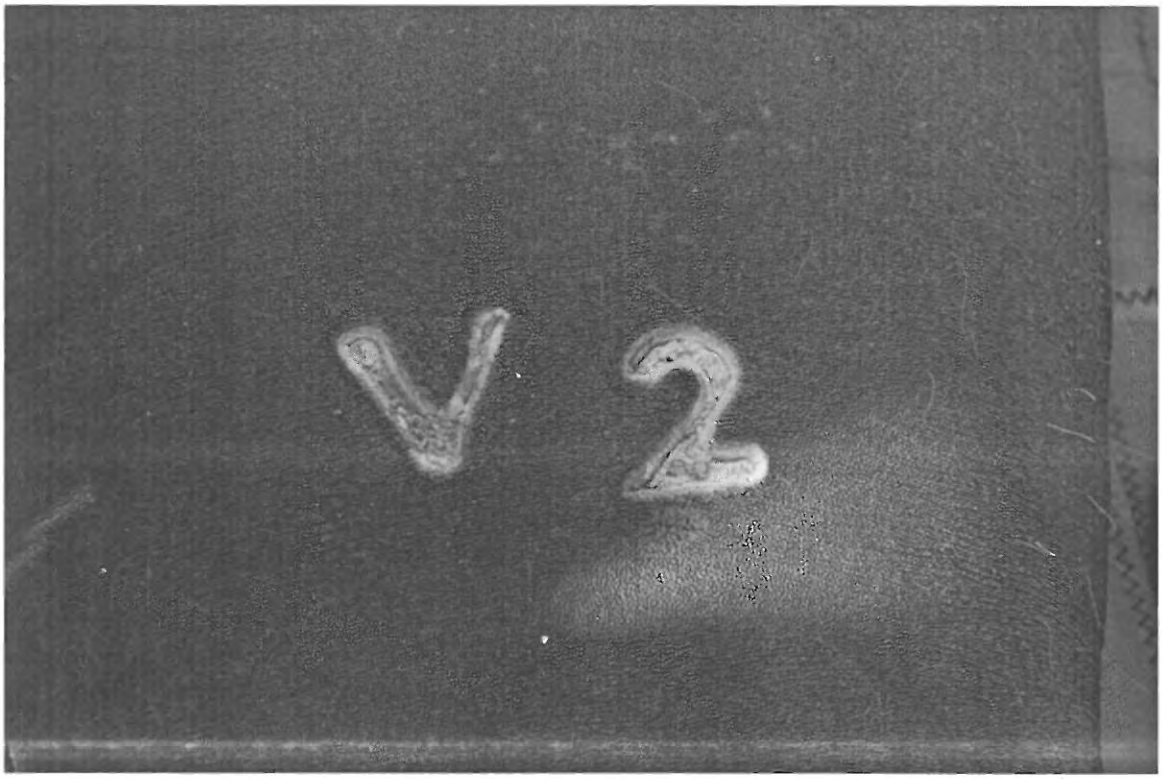




Locality Description:

At the mouth of a retention pond, approximately 14 m NW of the south-west corner of 5807 N. Banana River Blvd. Unit 1211

Latitude: 28.37201°N **Longitude:** -80.61008°W



SWFTM14063
REC1406 Quincentariat

Manatee Information (MLog:**1592**)

Animal ID:**SWFTm1406B** Sex:**M** Name:**Quincentariat** Rearing:**Orphan hand reared**

-- Release Information ----------

Release Date: 01/19/2016

-- Release Location Information ----------

REC 1406

Release Site: Port St Johns power plant

State: FL **County:** Brevard **City:** Port St Johns

Waterway: Indian river intercoastal

-- Measurement ----------

Weight (kg): 333 **Estimated Weight?:** No **Date Weighed:** 12/23/2015

Length (cm): 244 **Estimated Length?:** No **Date Measured:** 12/23/2015

-- Other Release Information ----------

Display Water Type: Fresh

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 00

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: Salt water grasses

How many months has animal been exposed to vegetation? 03

Tracker: Sea to Shore

Veterinarian: Scott Gearhart

Organization: SeaWorld Florida

Participating Org: FWC did photos and measurements at release site

Additional Narrative: Manatee will not be belted

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 01/19/2016

Updated By: D **Updated Date:** 01/19/2016

Manatee Information (MLog:**1592**)

Animal ID:**SWFTm1406B** Sex:**M** Name:**Quincentariat** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 02/05/2015 **Tag ID** 00075B84EB

Tag ID 00075B84EB

Information: Pit tagged in left shoulder area with #00075B84EB for future release.

Event: Rescue **Event Date** 05/10/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 04/07/2015

Updated By: D **Updated Date:** 04/07/2015

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 02/05/2015 **Tag ID** 00075A7EE1

Tag ID 00075A7EE1

Information: Pit tagged in right shoulder area with #00075A7EE1 for future release.

Event: Rescue **Event Date** 05/10/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 04/07/2015

Updated By: D **Updated Date:** 04/07/2015

Entered PIT + Captive. DJS 1/22/15

FOX 35 WOGX

Rescued manatees returned to Indian River Lagoon

FOX 35 News at 5 p.m.

Posted: Jan 19 2016 07:36PM EST

Updated: Jan 19 2016 10:33PM EST

BREVARD COUNTY, Fla. (WOFL FOX 35) - Officials with SeaWorld Orlando on Tuesday released rehabilitated manatees back into the wild. Two manatees were transported inside a SeaWorld Orlando box truck to the Indian River Lagoon, the same place where they both nearly died months earlier.

"One was an orphaned calf that came in at a little over 100 pounds and bottle fed around the clock," explained SeaWorld's Randy Runnels. Now, close to 700 pounds, the manatee known as Shirley is in excellent health.

The other manatee, named Quincentariot, is particularly special to SeaWorld as it is the 500th manatee they have rescued.

With the help of state and federal protection laws, officials say the manatee population has grown to 6,000 statewide, up from several hundred in 1967 -- improvement so significant, the state is in the process of removing manatees from the endangered species list.

Rescued manatees returned to Indian River Lagoon

News 13

Four rehabilitated manatees returned to the wild

Last Updated: Tuesday, January 19, 2016, 5:56 PM

ORLANDO --

Four rehabilitated manatees were returned to the wild Tuesday in a multi-organization effort led by Florida Fish and Wildlife Conservation Commission (FWC).

The four rescued and rehabilitated manatees were returned back to their natural water ways by a large group of Florida's marine mammal experts -- including SeaWorld Orlando's Animal Rescue Team, Tampa's Lowry Park Zoo and the Miami Seaquarium.

The marine mammal experts worked together to return the manatees near the warm water outfall of the Port St. John power plant in Brevard County. The area will provide them with a warm water site during the current cold snap.

SeaWorld says the reason manatees are returned during cooler weather is because other wild manatees naturally congregate in specific warm water sources during these periods. Doing this allows the new animals to acclimate to a larger group, from which they can learn migratory patterns once the weather warms up. It also allows the newly-released manatees to familiarize themselves with a specific warm water site to return to the next time temperatures cool down.

The two animals released by SeaWorld were particularly special, including the 500th manatee rescued by the park, and an animal that was rescued two years ago as a tiny, 121-pound orphan that now weighs 705 pounds.

Manatees Returned:

Quincentariat- This juvenile male manatee was rescued on May 10, 2014 from the Banana River in Cape Canaveral due to cold stress. He was the 500th manatee rescued by the SeaWorld Orlando Animal Rescue Team. At the time of rescue he weighed 286 pounds, measuring 6 feet in length. The healthy manatee now weighs over 735 pounds, measuring more than 8 feet long.

Shirley- The orphan female calf was rescued on January 28, 2014 from the De Soto Canal in Brevard County. At the time of rescue she weighed 121 pounds and measured 4 feet 8 inches in length. The healthy and independent manatee now weighs 705 pounds and measures 7 feet 8 inches long.

Hammock- A young male patient named "Hammock" was rescued in March of 2014 from Indian River as an orphan, and will now receive a second chance at life in the wild after nearly two years of rehabilitation at the Manatee Hospital at Tampa's Lowry Park Zoo.

Abigail- In March 2013, Abigail was rescued from the Indian River system near Merritt Island in Brevard County, Florida. Suffering from cold stress, Abigail received critical care at Sea World Orlando and then was transferred to Cincinnati Zoo for rehabilitation. Then, in October of 2015, Abigail arrived at Miami Seaquarium to become acclimated to the natural diet and brackish water found in the region. She is estimated to weigh approximately 700-800 pounds and estimated to be between 3-5 years old.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/19/four_rehabilitated_m.html

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: RCC1406 (SUFM1406B) Capture ID: NA Data Recorder: Ann Spellman (FWC) + Angie Acosta (FWC)

Name: Quincentavist Date: 19 January 2016

ID of its Calf / Mom: NA Sex: M / (F)

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: FPL-CCEC discharge
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: _____

EVENT: ___Capture ___Rescue ___Pre-release Assess. ✓ Release ___Post-release Assess.

Workup Site: Air Temp = _____ C F Wind: _____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 760	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	NT	
	Total Length (straight)	208	
	Snout to Peduncle	136	
	Snout to Anus	119	
	Snout to Umbilicus	41	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½		
	Girth at Umbilicus: actual or ½		
	Girth at Axilla: actual or ½		

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	A Spellman (FWC)
	Clinical Assessment Data Sheet?	Y / N N

REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating? NA	Y / N NA

MONITORING	Heartrate: Stethoscope EKG Doppler (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)

FREEZE BRAND	Letters/Numbers applied: V2	Applied by: SUF
	Location(s): Shoulder peduncle	

Manatee ID: REDMOONSWIFTMOON3 Capture ID N/A Date: 19 January 2016

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	
SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze		
Urine?	Y / N	Refrig / Freeze / EtOH		
Fecal?	Y / N	Freeze / EtOH		
Skin Scraping?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / N Location: _____	Freeze / / DMSO		
Mucosal Swab?	Y / N Oral / Rectal	Refrig		
Other?	Y / N Tear Film / _____	Freeze / _____		
PIT TAG	Scanned for previous PIT tag?	Y / N PIT tagged at this capture? Y / N		
	PIT tagged by:	SeaWorld		
	Right #	00-075A-7EE1		
	Left #	00-075B-B4EB		
TELEMETRY	Tag Type	Argos-GPS / PTT / VHF		
TAG	Tag ID#			
	Tag / Antenna Color(s)	Tag: Antenna:		
	VHF Frequency	164.____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
BELT	ID# / Size / Color	FWC_____ Length: _____ in. Color:		
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	Left / Right _____ inches		
	CR2a Programmed Release	Y / N Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			
TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.		
	Tagged by:			
PHOTOGRAPHS	Taken by:	Ann Spellman (FWC)		
	Exposures:	FWC025_2015_01-19: 1068 - 3684		
SKETCHES	Sketched by:	Ann Spellman (FWC)		
COMMENTS	Freeze branded @ SW "V2" no other scars			

Rose/Dth
8/4/14

Rescue Report

REC1407

Watercraft

GENERAL

Date of Rescue: 21 May 2014 Date of Initial Call: 14 May 2014 Filed by: A. Spellman

Rescue ID: REC1407 Facility ID: LPZ103174 Other ID: SWFTm1407b

FWC Case Number: 5216 FWC Region: NE

Sex: Male Length: 259 cm Estimated: Weight: 281 kg Estimated: No

PIT Tag Present: No? PIT Tag Applied: R: L:

State: FL County: Brevard City: Cocoa Waterway: Indian River

Latitude (Decimal Degrees): 28.46955° N Longitude (Decimal Degrees): -80.75835° W

Locality Description: along the N side of the FPL power plant mole, approximately 430 m E of discharge #1.

Method of Capture: Open-water boat-based net set

REASON FOR RESCUE

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☐ Penetrating Cuts ☒ Impact ☒ Other

Describe: Healing linear wound and underlying pneumothorax

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☒	☒
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
14 May 2014	At 1728 hrs, FWC on-call biologist-Amber R. Howell (ARH) received a text alert from FWC NE Dispatch-Orlando regarding an injured manatee in the Pine

	Island Conservation Area (PICA), in Merritt Island, Brevard County. FWC case number 5216 was assigned. The complainant, Robbyn Spratt, a Brevard County employee, had spotted the manatee in a small cove area of the PICA/Rinker's Canal swimming on its side and unable to submerge. ARH advised ECFL staff and requested a BOLO for officers in the area the following morning.
15 May 2014	At 0800 hrs, ARH contacted Dispatch to request officer assistance in locating the manatee. Lt. Morgan and Ofc. Minard were dispatched to the area and located it by 1108 hrs. ACS contacted Bob Wagoner at SeaWorld Orlando (SWF) to request assistance but was told that SWF would be unable to assist until early the following week and they were unable to accept the animal due to lack of space in the medical pool. ACS then contacted ARH at SEFL to ask for assistance. ARH agreed to bring the SEFL rescue boat and additional staff to help with the rescue. ACS also called several volunteers to assemble a complete team. ACS advised FWC Rescue Coordinator-Andy Garrett (AJG) who contacted Lowry Park Zoo to ask if they could take the manatee. LPZ stated that they had room. Due to inclement weather and rough water conditions, a boat-set could not be attempted. The decision was made to try a net set from land. Two net set attempts in different locations proved unsuccessful with the second attempt spooking the manatee, causing it to leave the creek. All attempts with kayak to herd it back were unsuccessful. Lightning in the area ended further attempts that day.
16 May 2014	At 0912 hrs, FWC biologist-Christine N. Rush (CNR) contacted Dispatch to request officer assistance in searching for the manatee. No officers were available so CNR searched for the manatee by land at PICA until 1320 hrs but did not find the manatee. CNR requested a BOLO be issued. Later in the day the manatee was again reported at PICA.
17 May 2014	At 0800 hrs, CNR again searched for the manatee at PICA but was unable to locate it.
18 May 2014	At 1130 hrs, ACS searched for the manatee at PICA but was unable to locate it.
20 May 2014	At 1401 hrs, FPL employee-Jodie Gless contacted ACS directly to report a manatee at the FPL-CCEC that was swimming on its side; she sent photos by email. ACS advised that this was the manatee they had been looking for and initiated calls to assemble a rescue crew. SWF was unavailable to assist with the rescue so ACS again requested SEFL assistance and ECFL volunteers. ACS advised LPZ of the possible rescue. ACS monitored the movements of the manatee from land on the mole at FPL while ARH piloted the rescue boat with the rescue crew. Multiple net sets were attempted but the animal's extreme buoyancy allowed it to float over the net as the net was being pulled in. While crew were resetting the net, the manatee swam east across the river and disappeared. Further attempts were called off due to the late hour of the day.

21 May 2014	At 0730 hrs, FWC Volunteer Leo J. Cross (LJC) searched for the injured manatee at FPL. ACS coordinated with SWF Rescue Team who had indicated they would be available to assist that day if the manatee was spotted early enough. ACS received a text alert from FWC NE Dispatch-Orlando advising that Ofc. Minard was in the area and had spotted the manatee. ACS coordinated with LJC to meet the officer and stay with the manatee. ACS also contacted staff at LPZ and AJG to advise them of the possible rescue and transport. ACS and volunteer A. McLemore (AM) drove the transport truck to the Port St. John Boat Ramp where they met SWF staff. The manatee was successfully captured on the first net set and taken to shore. The manatee was loaded into the FWC transport truck and transported to LPZ by ACS, LCJ and AM, arriving shortly after 1700 hrs.

PARTICIPANTS

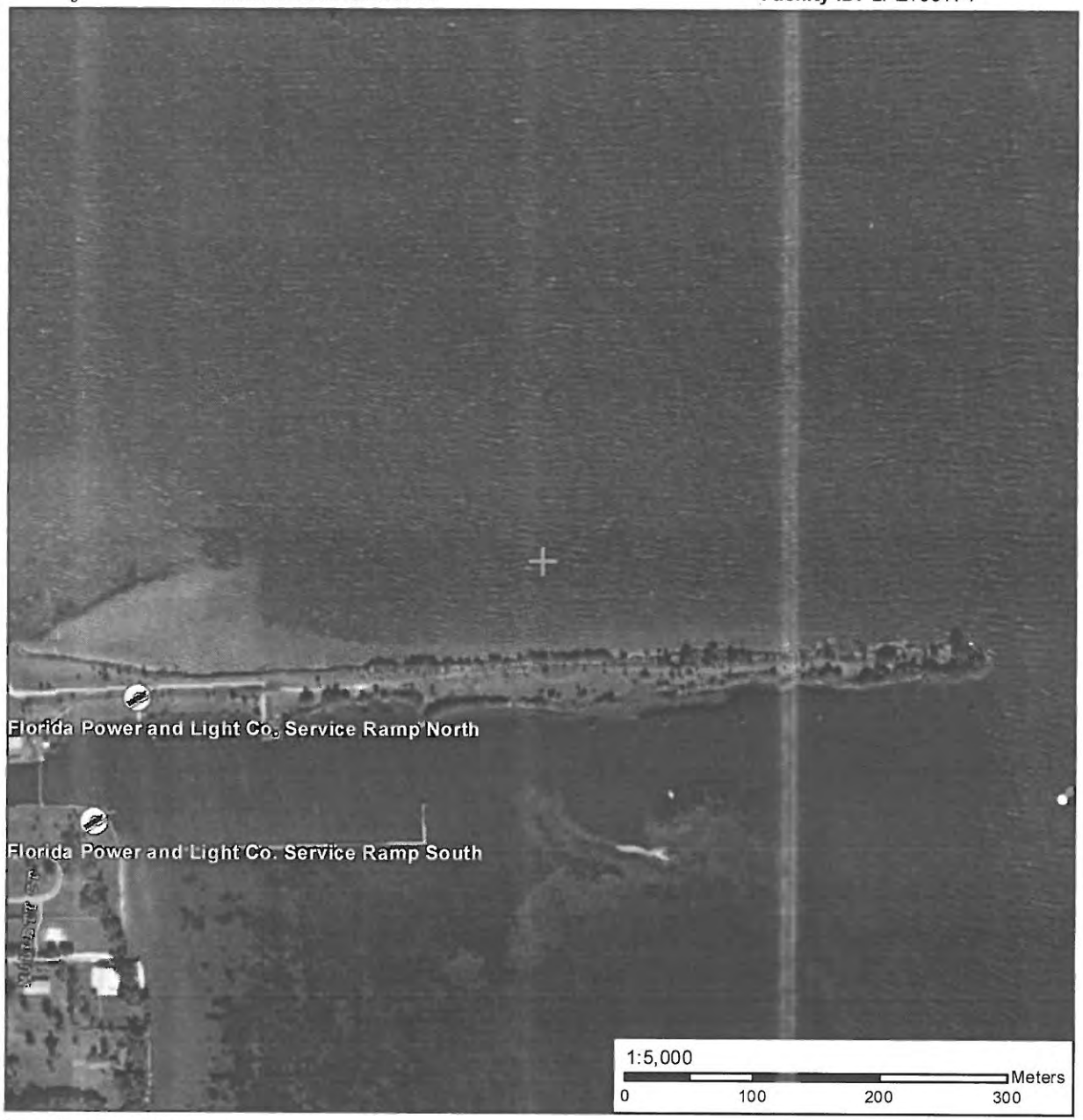
FWC EC: A. Spellman, C. Rush,
FWC SE: A. Howell, T. Reinert, L. Conner
FWC EC Volunteers: L. Cross, A. Preston, A. McLemore, P. Caudill, E. Neugebauer, Trey Hannah, Intern: K. McMahon
FWC LE: Ofc. Minard and Ofc. Salberg (PIO)
SWF Animal Care Staff: R. Runnels (Supervisor)

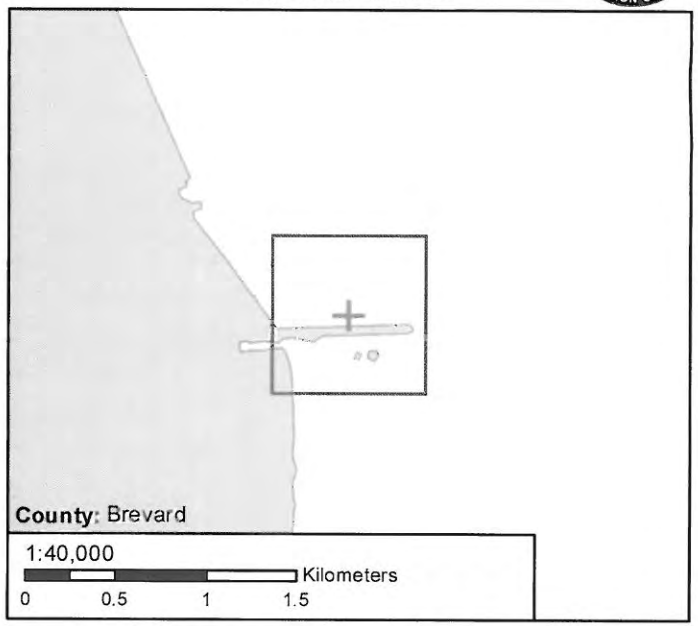
Edited by:
TRR
DJS
AJG

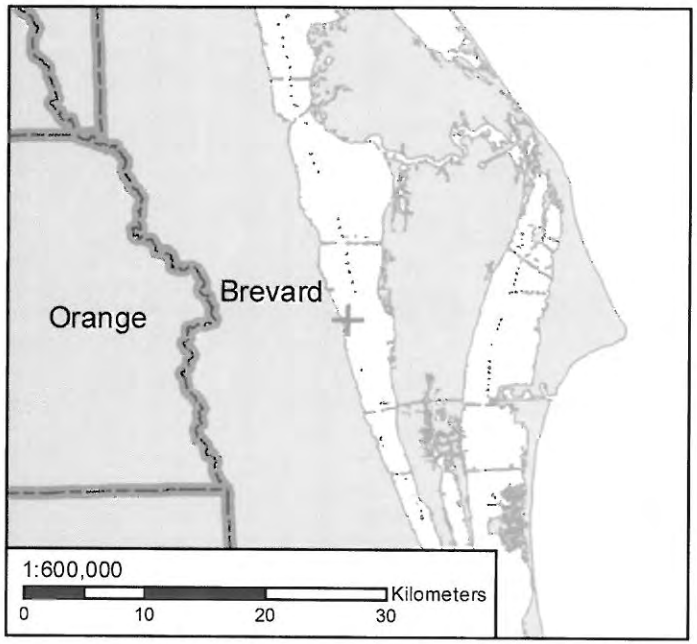
(Rev: 03 18 2013)

Verified Response Location of Manatee Rescue REC1407

Rescue Date: 5/21/2014 **Facility ID:** LPZ103174 Map Created 10/9/2015







Locality Description:
along the N side of the FPL power plant mole, approximately 430 m E of discharge #1.

Latitude: 28.46955°N **Longitude:** -80.75835°W

Resc

Watercraft

Manatee Information (MLog:**1593**)

Animal ID:**LPZ103174** Sex:**M** Name: Rearing:**Wild reared**

-- Rescue Information ----------

Rescue Date: 05/21/2014 **Rescue Per Day:** 1

Rescue Type: Brought into captivity

Primary Cause: Watercraft Impact

Primary Cause Text:

Secondary Cause:

Secondary Cause Text:

Health Status: Critical

Suspected Pregnant: Animal sex is male or unknown

REC1407
SWFTM1407B

-- Rescue Location Information ----------

State: FL **County:** Brevard **City:** Port St. John

Waterway: Indian River

Latitude: 28.469550 **Longitude:** -80.758367

Relocated, where?:

Did animal die during rescue or transport?: No

-- Measurement ----------

Weight (kg): 281 **Estimated Weight?:** No **Date Weighed:** 05/21/2014

Length (cm): 259 **Estimated Length?:** No **Date Measured:** 05/21/2014

-- Other Rescue Information ----------

Tracker: **Transporter:** FWC Indian River Field Station

Facility transported to: Lowry Park Zoo

Veterinarian: Ray Ball **Organization:** Lowry Park Zoo

Participating Org:

Flood Gate: **Pot Status:**

Additional Narrative:

-- Report Information ----------

Created By: Virginia Edmonds **Created Date:** 05/27/2014

Updated By: D **Updated Date:** 05/27/2014

Szemer, Donna

From: Garrett, Andy
Sent: Wednesday, May 21, 2014 4:38 PM
To: Adrienne Atkins; Amy Teague; Barlas, Margie; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Sisco, Valerie; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Cc: Howell, Amber
Subject: RE: rescue update

The manatee was captured by a Sea World rescue team and is being transported to Lowry Park Zoo by FWC-ECFL staff.

From: Garrett, Andy
Sent: Wednesday, May 21, 2014 1:41 PM
To: 'Adrienne Atkins'; 'Amy Teague'; Barlas, Margie; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Cc: Howell, Amber
Subject: FW: rescue update

The ECFL located the manatee this morning just north of the FPL power plant. A Sea World rescue crew is currently on scene and is attempting to capture the manatee. If captured, the manatee will be taken to Lowry Park Zoo.

-Andy

From: Garrett, Andy
Sent: Wednesday, May 21, 2014 8:25 AM
To: 'Adrienne Atkins'; 'Amy Teague'; Barlas, Margie; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: RE: rescue update

The Merritt Island manatee was reported again yesterday afternoon, this time at the FPL plant (intake canal). A FWC rescue team responded late afternoon/early evening, but they were unable to capture the manatee before dark. A Sea World rescue crew is on stand-by today.

-Andy

From: Garrett, Andy
Sent: Friday, May 16, 2014 11:10 AM
To: 'Adrienne Atkins'; 'Amy Teague'; Barlas, Margie; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: RE: rescue update

Photos of the Merritt Island manatee attached.

From: Garrett, Andy
Sent: Friday, May 16, 2014 10:58 AM
To: 'Adrienne Atkins'; 'Amy Teague'; Barlas, Margie; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Craig Miller'; 'Craig Pelton'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martz, Meg; 'Maya'; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; Sisco, Valerie; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Trevor Gerlach'; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue update

Merritt Island:

Yesterday, the ECFL responded to a call of a positively buoyant 8-9 ft manatee listing to one side with a watercraft wound. The manatee was located in the Rinker Canal. A team from the FWC-SEFL was assembled and met ECFL staff on scene. The rescue team attempted one net set, but the manatee was evasive and the weather precluded any further attempts. The ECFL is currently waiting for another report. MSQ has agreed to take the manatee.

-Andy

CLICK ORLANDO
Powered By WKMG LOCAL 6

Injured manatee rescued from Indian River Lagoon

Author: Justin Warmoth, Reporter, jwarmoth@wkmg.com
Published On: May 21 2014 06:27:34 PM EDT Updated On: May 21 2014 07:37:27 PM EDT

TITUSVILLE, Fla. -

It was a team effort Wednesday between Florida Fish and Wildlife and SeaWorld to coral an 8-foot, 800-pound critically injured manatee.

The manatee was found floating in the Indian River Lagoon about a week ago after apparently getting hit by a boat.

"We had to get in the water and lift the cork line up a little bit so the manatee didn't float over the top of the net," said SeaWorld curator Randy Reynolds. "Usually that's not a problem we encounter when we capture manatees because they would normally dive."

Wildlife officials say they've been keeping an eye on the manatee ever since it was spotted last Wednesday. After a couple failed attempts to trap the sea cow, SeaWorld was called to bring it to shore.

"This animal is highly mobile. She is hanging out in deeper water. We absolutely have to have the right type of equipment to catch her safely," said Ann Spellman, a biologist with Florida Fish and Wildlife.

SeaWorld dropped their boat in Wednesday afternoon at the Port St. John boat ramp and headed toward the injured manatee, who was a floating a couple hundred yards from shore.

Within a couple of minutes they were able to trap it with a net. From there, they found out it has air trapped in its body, likely from a broken rib, and was injured so badly it couldn't submerge.

"It was floating like a buoy. It couldn't dive very well. Fortunately for us, she was easier to catch that way," said Reynolds. "It was easier to get a net around it because it couldn't dive, but it's a serious uphill battle."

The manatee is being taken to Lowry Park Zoo in Tampa for rehabilitation and once its fully recovered it'll be returned back to the Indian River Lagoon.

SeaWorld says this is the sixth manatee they've rescued this year.

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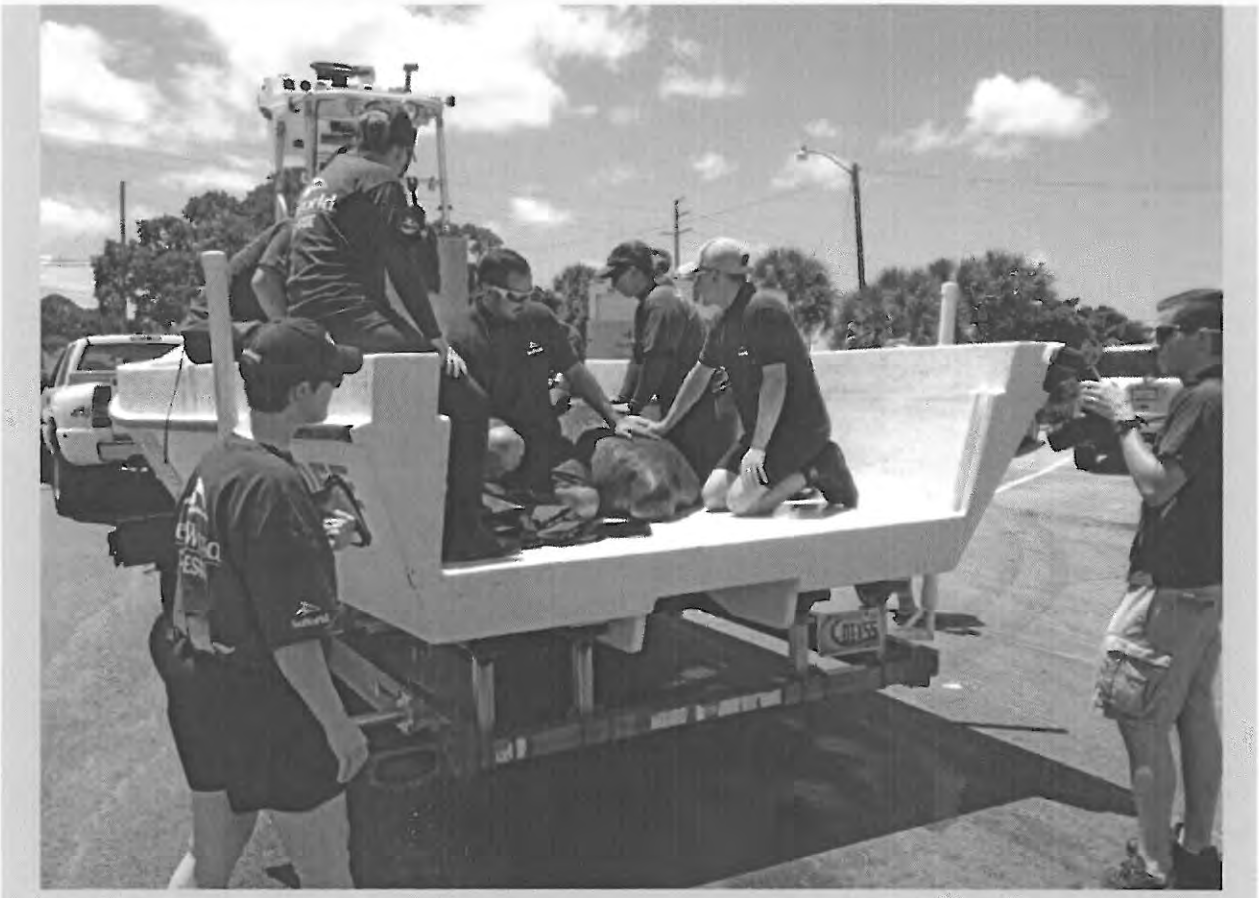
News 13

SeaWorld, FWC rescues injured manatee



SeaWorld workers and FWC officials helped save an injured manatee in Port St. John Wednesday. (PHOTO/Greg Pallone, Staff)

By Greg Pallone, Reporter

Last Updated: Wednesday, May 21, 2014, 4:12 PM

PORT ST. JOHN --

The clock was ticking to help a severely injured manatee in the Indian River. Florida Fish and Wildlife said the sea cow was likely struck by a boat at least a week ago.

Workers, along with state wildlife officials, were able to net the injured manatee and take it in for help.

"On his side, kicking, half out of the water afloat," said Chuck Mullen, who spotted the struggling sea cow during his fishing trips on the Indian River over the last few days.

It's believed the large animal was struck by a boat around a week ago. He knew it needed help fast.

"It will die out there if it lasts over the weekend,"he said.

FWC has been trying to corral the 8 foot long, 800 pound gentle giant for several days.

"We almost had it yesterday, but it's so buoyant it floats on the surface like a rubber duck. So when the net comes the animal can float right over the top of the net," said FWC biologist Ann Spellman.

But today would be the day. SeaWorld workers showed up at the Port St John boat ramp and headed into the river where an FWC spotter had his eyes on it.

In just a matter of minutes, after workers got into the water and positioned the net just right, the sea cow was brought onto the boat, then to shore.

They learned the manatee had air in its body. It was so injured it couldn't submerge.

"Fortunately for us she was easier to catch. Got a net around it because it couldn't dive. But it's a serious uphill battle.," said Randy Reynolds, a Sea World curator.

It was loaded onto a truck where it would be taken to get help. This manatee will be taken to Tampa's Lowry Park Zoo -- Sea World's Orlando rehab facility is just too full of injured manatees.

The goal was to get it out of the water before the busy Memorial Day holiday weekend, when many more boaters will take to the water and this manatee would be in more danger because it couldn't submerge.

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **LPZ103174**
Date of Report: 2014-Aug-04
Filed By: FWC MMPL

FWC Case # 5216 **FWC Region:** NE

Sex: Male **Length:** 262 **cm** **Weight:** 249.0 **kg**

DATE REPORTED: 2014-Aug-04 **By:** LPZ to FWC MMPL

DATE COLLECTED: 2014-Aug-04 **By:** MMPL-ALP,BSV

DATE NECROPSIED: 2014-Aug-04 **By:** MMPL-MdW,ALP,KJR,BLB,BSV

LOCATION: **State:** FL **Latitude:** 28.46955 **N**
County: Brevard **Longitude:** -80.75835 **W**
Waterway: Indian River
Locality description: Port St. John, along the N side of the FPL power plant mole, approximately 430 m E of discharge #1.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Human Related: Watercraft Collision

EXPLAIN: Impact; Chronic; Pneumothorax; Blood clots; Left distension of carcass; Lung lesion; Collapsed lung; Mucus, foam in airways; Displaced abdominal organs; Slightly enlarged lymph node; Serous tissue; Congested meninges, GI mucosa.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology. Serum. Vitreous.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report. Rescue report.

REMARKS:

PIT tag scan negative. Died on 04 Aug 2014. Died at 0953 hrs. Euthanized at facility. Plastic in colon. See rescue report REC1407. First sighted with healing wound on 14 May 2014, rescued on 21 May. Also ID SWFTm1407b.

Page 1&2	05 Jan 2016
Necropsy Report	05 Jan 2016
Lat/Long	05 Jan 2016

Asst. 4 Rel

Rescue Report

REC1408

Entrapment

General

Date of Rescue: 31 May 2014 Date of Initial Call: 31 May 2014 Filed by: C. Rush

Rescue ID: REC1408 Facility ID: N/A Other ID:

FWC Case Number: 6020 FWC Region: NE

Sex: Unk Length: 245 cm Estimated: Yes Weight: 340 kg Estimated: Yes

PIT Tag Present: Unk PIT Tag Applied: No R: L:

State: FL City: Cape Canaveral County: Brevard Waterway: Port Canaveral

Latitude (Decimal Degrees): 28.40930° N Longitude (Decimal Degrees): -80.63795° W

Locality Description: Inside of lock gate #3 (NE gate) at 1000 Mullet Rd. (Canaveral Locks).

Method of Capture: Manatee was never captured; it was coaxed out of a hole in the gate by the BCSO dive team.

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☒ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Entrapment-Human Related

Describe: Inside lock gate chamber (damaged screen)

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
30 May 2014	At 1045 hrs, Canaveral Locks-security guard Dave Green (DG) noticed a live manatee inside lock gate #3 (NE gate). No notations were made on the lock log.
31 May 2014	At 0550 hrs, DG informed Canaveral Locks-lock tender Tim Holem (TH) of the manatee. At 0600 hrs, East Region Locks Facility Manager Carl Williams,

SFOO Biologist Sharon Tyson (ST), and Chief SFOO Steve Dunham were contacted. TH contacted the FWC Hotline, and FWC-biologist Ann C. Spellman (ACS) and FWC-biologist Christine N. Rush (CNR) directly on their cell phones and left voicemails. ACS contacted FWC NE Dispatch-Orlando to request officer assistance. FWC case number 6020 was assigned. ACS then left messages for CNR, FWC-Andy Garrett and FWC-Tom Reinert to inform them of the situation. ACS then contacted SeaWorld-Randy Runnells (RR) to inquire if they had a dive team qualified to dive within a structure. RR informed ACS that they were not qualified. ACS contacted BCSO's Lt. Fischback to request assistance from their dive team. Lt. Fischback agreed to assist in any way needed.

At 0830 hrs, CNR arrived on scene and met ST, who was on the lock gate observing the trapped manatee. CNR recommended that before any divers entered the water, a temporary fix for the probable hole in the lock gate screen should be determined. Several other manatees were in the lock chamber and outside the lock gates. Boats were allowed to pass through the lock chamber as needed, with the manatee inside the NE lock gate being monitored as the gate opened and closed. ST located heavy duty zip ties and a small metal screen for the temporary patch. BCSO dive team arrived on scene at 1000 hrs. After several minutes of diving, BCSO determined that there was a large hole that ran from 8 feet to 16 feet deep. The divers then entered the gate in an attempt to guide the manatee towards the hole. Those attempts did not work. CNR recommended cutting a shallower hole in the corner of the lock gate that the manatee seemed to be most frequently occupying. ST gave permission to cut the second hole. The dive team cut the screen, about 4 feet in depth, just under the timbers. After the second hole was cut, the divers attempted to guide the manatee towards the new hole, to no avail. CNR recommended dropping a hose down towards the shallow hole to attract the manatee. Meanwhile, the divers patched the original hole. Although the manatee was drawn to the hose, it would not go through the shallow hole. CNR requested that the hose be threaded through from the outside in, so the manatee would find where the water was coming from. The divers resituated the hose and spooked the manatee in that direction. After several more minutes, the manatee made its way out of the second, shallow hole at approximately 1400 hrs. The divers then temporarily repaired the second hole until the gate could be properly fixed at a later date.

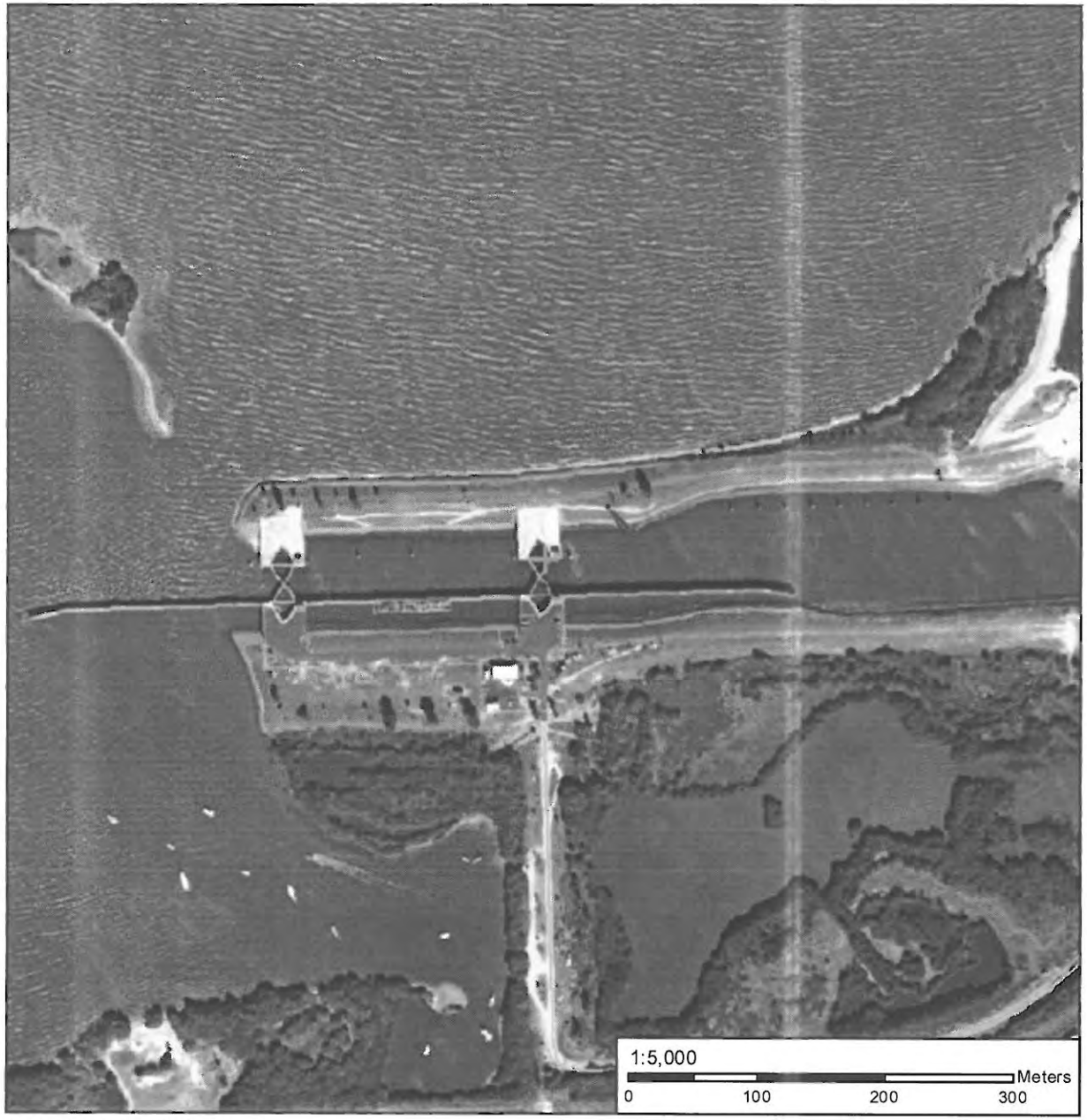
PARTICIPANTS

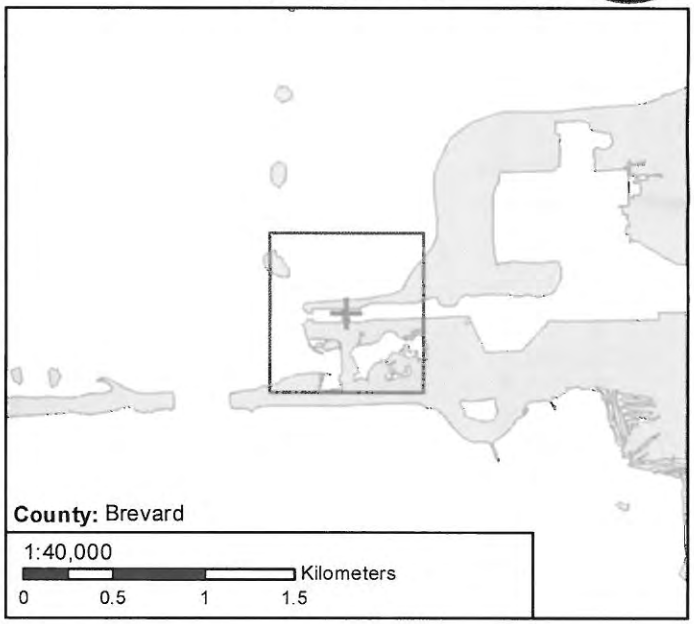
FWC EC: Christine Rush, Ann Spellman
Army Corps of Engineers: Tim Holem, Dave Sheetz, Bob Stake, and Sharon Tyson
BCSO: Lieutenant Alex Fischback, Deputy John Straus, Deputy Joseph Martin, Deputy Jeff Colon, Deputy V. Manno-Vitani

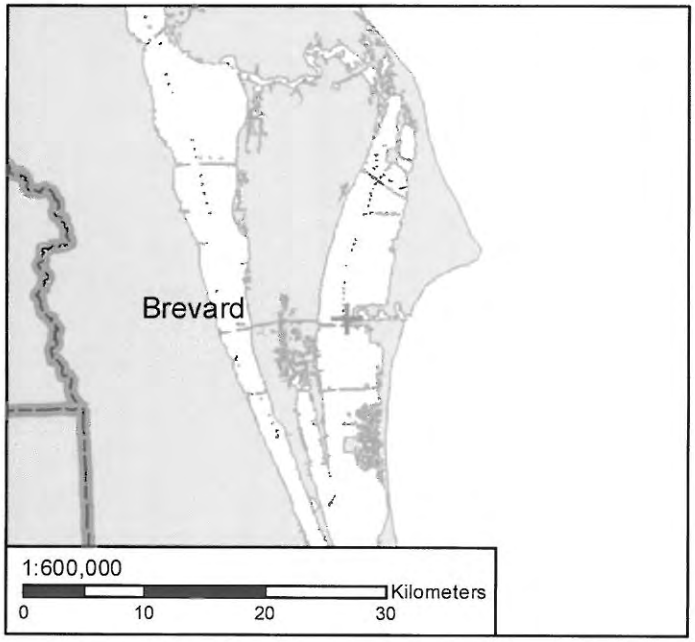
Edited by:
TRR
DJS
AJG
(02/20/2013)

Verified Response Location of Manatee Rescue REC1408

Rescue Date: 5/31/2014 **Facility ID:** N/A Map Created 10/9/2015







Locality Description:
Inside of lock gate #3 (NE gate) at 1000 Mullet Rd. (Canaveral Locks).

Latitude: 28.4093°N **Longitude:** -80.63795°W

Asst. + Rel

Szemer, Donna

From: Spellman, Ann
Sent: Wednesday, June 04, 2014 12:56 PM
To: Szemer, Donna
Cc: Rush, Christine
Subject: REC1408

Hi Donna-
We had a rescue on Saturday 31 may 14 morning at Port Canaveral, Brevard County, Canaveral Inlet . A juvenile manatee swam through a screen and into the inside part of the lock door (the ones that swing)actually getting trapped in the door itself (it is a pie shaped wedge of a door). The gender is unknown but it was ~~~244cm~~., assist and release, no other ID numbers. Christie will add to the FWS database. 245cm

Also just in case you did not hear from Andy- we rescued a 259cm male manatee from Port St. John on 21 May- pneumothorax that we took to LPZ. REC1407, SWFTm1407, LPZ103174.
ann

Resc / Dth
6/26/14

Rescue Report

REC1409

Undetermined
(pend. UME)

General

Date of Rescue: 26 June 2014 Date of Initial Call: 26 June 2014 Filed by: A. Spellman

Rescue ID: REC1409 Facility ID: NA Other ID: MEC14062

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 259 cm Estimated: No Weight: 305 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL County: Brevard City: Melbourne Waterway: Indian River

Latitude (Decimal Degrees): 28.07978° N Longitude (Decimal Degrees): -80.59975° W

Locality Description: at the Front Street Park Boat Ramp, 56 m NNE of 2205 S. Front Street

Method of Capture: Hand

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): East Coast UME Suspect

All Other

Describe: Animal rapidly swam into shallow water and began thrashing.

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
26 June 2014	At 1645 hrs, FWC-biologist Ann C. Spellman (ACS) received a direct call from the Melbourne Police Department (MPD) dispatcher regarding a manatee in distress at a nearby boat ramp. ACS advised she was on her way and contacted Bob Wagoner at SeaWorld to see if the park had space for the animal. ACS also contacted FWC- Rescue Coordinator Andy J. Garrett (AJG) to advise him of the situation. A MPD officer escorted ACS to the ramp where one of two

	kayakers was supporting the manatee and several other officers were on scene. ACS immediately relieved the kayakers and called FWC-biologist Christine N. Rush (CNR) to request she bring the rescue truck to the ramp. According to the kayakers the manatee had taken a breath about 5 minutes before ACS arrived. ACS quickly assessed the manatee but was unable to get any response. According to the kayakers one of the officers instructed them to put the manatee's head back in the water. They complied and indicated that the manatee took its last breath under water. Prior to the kayakers supporting the manatee another witness described the manatee as swimming very fast into the shallow water then thrashing violently. ACS concluded after 20 minutes that the manatee had expired. ACS requested assistance from the Melbourne Fire Department in removing the carcass and placing it in the manatee rescue transport truck

PARTICIPANTS:

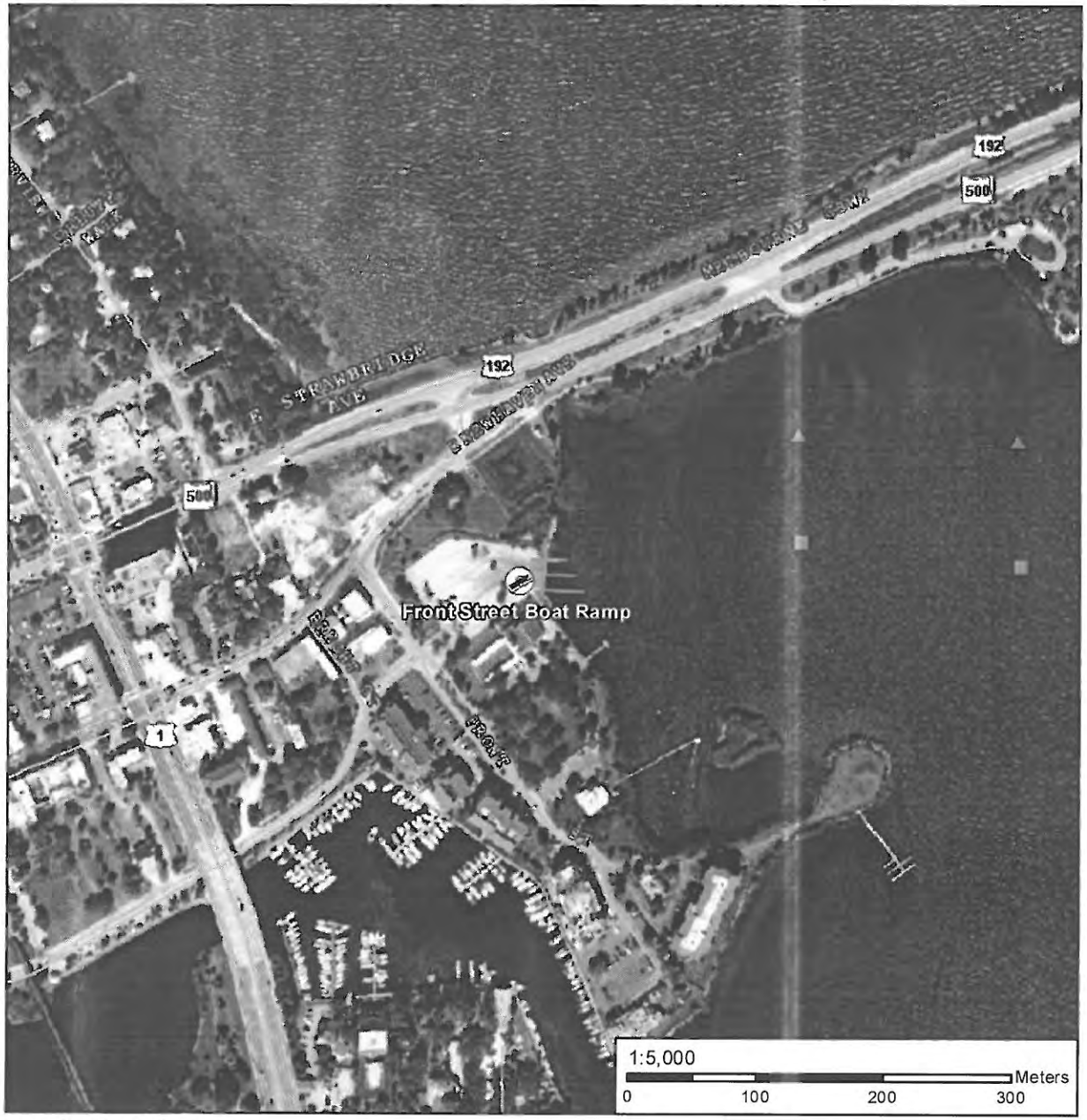
FWC: A. Spellman, C. Rush
USFWS: Ofc. W. Duran
Kayakers: Abby Cook and Maddi Ridenauer
MPD and MFD

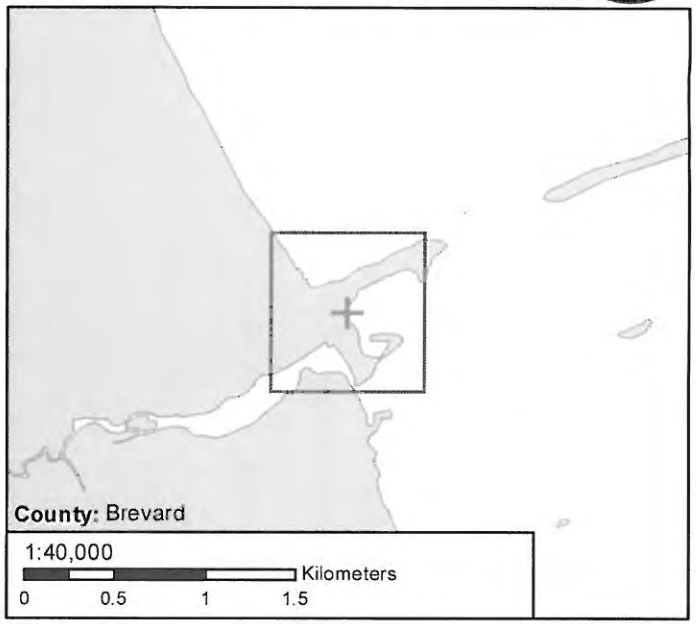
Edited by:
TRR
DJS
AJG

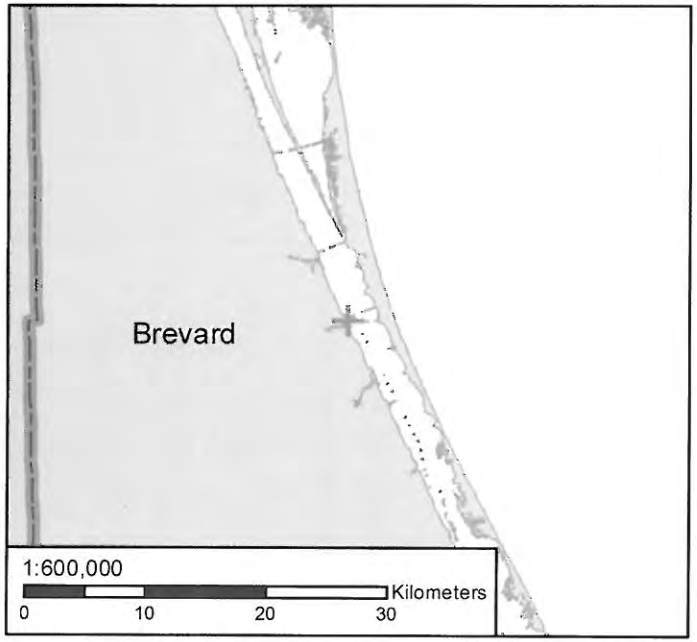
(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1409

Rescue Date: 6/26/2014 **Facility ID:** N/A Map Created 2/4/2016







Locality Description:
at the Front Street Park Boat Ramp, 56 m NNE of 2205 S. Front Street

Latitude: 28.07978°N **Longitude:** -80.59975°W

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MEC14062**
Date of Report: 2014-Jun-26
Filed By: FWC MMPL

FWC Case #

FWC Region: NE

Sex: Male **Length:** 259 **cm** **Weight:** 305.0 **kg**

DATE REPORTED: 2014-Jun-26 **By:** Melbourne PD to FWC-ACS

DATE COLLECTED: 2014-Jun-26 **By:** FWC-CNR,ACS

DATE NECROPSIED: 2014-Jun-27 **By:** MMPL-MdW,AJG,KJR,LRS,ALP

LOCATION:
State: FL **Latitude:** 28.07978 **N**
County: Brevard **Longitude:** -80.59975 **W**
Waterway: Indian River
Locality description: Melbourne, grounded at the Front Street Park Boat Ramp, 56 m NNE of 2205 S. Front Street.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Undetermined: Other

EXPLAIN: Dark line kidney(s); Wet, frothy lungs; White froth in airways; Congested mesenteries, urinary bladder-, tracheal mucosa, peritoneum; Thickened and discolored cecum-, colon mucosa with blister-like lesions; Congestion, hemorrhage in GI wall; Dark purple-red duodenum mucosa; Wet proximal colon contents; Macroalgae in GI tract; Yellow ascites; Seagrass in mouth. Necropsy findings fit the case description of the ongoing east coast UME. Cause of this event was still under investigation at the time this report was finalized.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal, Other (scrapes).

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology. GI samples frozen. -80 samples. FWRI microbiology samples. UF microbiology, toxins, chemistry, cytology samples. Clinical Path samples. Stomach contents in alcohol for Cathy Beck.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report. Rescue report. Sample list.

REMARKS:

PIT tag scan negative. Died on 26 Jun 2014. Died at 1655 hrs. Bleached epidermis; See rescue report REC1409. Tunicates in colon. Nodules in urinary bladder mucosa.

Page 1&2	02 Dec 2015
Necropsy Report	02 Dec 2015
Lat/Long	02 Dec 2015

Asst. & Rel

Rescue Report

REC1410

Entanglement
Crab trap

GENERAL

Date of Rescue: 28 June 2014 Date of Initial Call: 28 June 2014 Filed by: C. Rush

Rescue ID: REC1410 Facility ID: N/A Other ID:

FWC Case Number: 7230 FWC Region: NE

Sex: Unk Length: 150 cm Estimated: Yes Weight: 90 kg Estimated: Yes

PIT Tag Present: Unk PIT Tag Applied: No R: L:

State: FL City: Oak Hill County: Volusia Waterway: Mosquito Lagoon

Latitude (Decimal Degrees): 28.87447° N Longitude (Decimal Degrees): - 80.8372° W

Locality Description: approximately 265 m ENE of 253 River Drive.

Method of Capture: Assist and release

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☒ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entanglement

Gear Type: (Check all that apply)

☐ Monofilament Line	☐ Polyprop/Nylon Line
☐ Hook	☒ Buoy
☐ Sinker	☒ Trap
☐ Net	☒ Other (Specify) Braided Rope

Location of Entanglement: left flipper stuck through a large loop (~6 in. diameter) in the float line

If Crab Pot:

Float#: unk Color: Unk Line Type: Braided rope

Damage from Gear:

☒ No Damage ☐ Abrasions

☐ Breaking Skin Surface Depth of Entanglement Penetration: ___ cm

Comments: The crab trap was still a functioning trap and could be left in place.

Gear Retained? ☐ Yes ☒ No

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
28 June 2014	At 1045 hrs, FWC-biologist Christine N. Rush (CNR) responded to a text alert from FWC NE Dispatch-Orlando regarding a possible entangled manatee in Oak Hill. FWC case number 7230 was assigned. CNR requested officer assistance, but was told no officers were available at the time. The complainant, Theresa Lemmon (386-837-1774), had seen a manatee with a white buoy attached to it, but was unable to see where it was attached or if there was embedded line. The complainant was on her way to an island and did not get photographs of the manatee, but was adamant that the buoy did not have an antenna. CNR contacted Sea2Shore-Melody Fischer (MF) to make sure that it was not a tagged manatee. MF verified that it definitely was not a S2S tagged manatee. CNR, again, requested officer assistance from Dispatch, but no officers were available. CNR then contacted Volusia County Marine Mammal Stranding Team (VCMMST) Trey Hannah (TH) for assistance. TH informed CNR that he could meet her with a boat at 1500 hrs. At 1146 hrs, a second complainant, Jimmy (407-435-8146), contacted Dispatch regarding the same manatee and informed them that the manatee was actively in distress. CNR requested officer assistance again. All officers were on the water for a BUI detail, so CNR stressed the severity of a manatee in distress and that she was very far away. A few moments later, FWC-biologist Nadia J. Gordon (NJG) contacted CNR regarding the manatee. The Volusia County Marine Mammal Stranding Team (VCMMST) contacted the NEFL, thinking it was their area and NJG along with her staff was ready to respond. CNR accepted NJG's offer to handle the call. The following is from VCMMST-Georgia Zern Rachelle, who was out boating in the area, called in a manatee mom/calf pair, one of which was entangled in a crab trap. She called the Volusia County Marine Mammal Stranding Team (VCMMST) manager, who then notified the FWC Jacksonville Field Office. Nadia Gordon, with the Jax Field Office then notified Christie Rush with the FWC (Melbourne) Field Office, who had already called Trey Hannah with VCMMST. The crab trap had a buoy and line attached. The animals were staying very close to each other, which

made it hard to discern which one was entangled at first. The calf was large, perhaps a second year calf, and the mother was quite a bit bigger. Rachelle continued to monitor breathing, which was 1-4 min. intervals; the calf's breath rate was more frequent than the mother's. This may have been due to the trap appearing to either be anchoring the calf to some extent, or was at least dragging on the bottom. She only saw the calf dive twice, other than that the buoy remained visible, however the calf could submerge. The mom/calf pair stayed close together in the relatively small area between Channel Markers eight and nine. A local boater was also attempting to disentangle the animal, having been seen jumping in at least twice. They were doing this with good intentions, after having called the "marine unit" (not known which one) and being told that they could not assist. When Rachelle advised them to stop and told them that a rescue team was en route they stopped and moved away from the area. Rachelle stayed with the animals until FWC LE arrived on-scene and cut the crab trap line with a pocket knife. (The large calf had the line wrapped around one pectoral flipper.) Once released by FWC LE the large calf immediately submerged and both animals swam away. Rachelle followed them in her vessel for about half an hour and saw them breathe at least twice. The crab trap was left at the site. Rachelle had remained in contact with the FWC Jax Office staff while they were en route. Also en route was Trey Hannah with another boat, and Craig Pelton, DVM. However, the disentanglement and release which occurred right around 2 p.m., was completed before the rest of the rescue team's arrival.

FWC-Ofc. Goodreau and Ofc. Malicoat arrived on scene and noticed that there was a large loop in the float line. The calf's flipper was stuck through the loop. Ofc. Malicoat used the boat hook to pull the line and Ofc. Goodreau used his pocket knife to cut the loop. The crab trap was not retained since it was still marked and in working condition.

PARTICIPANTS

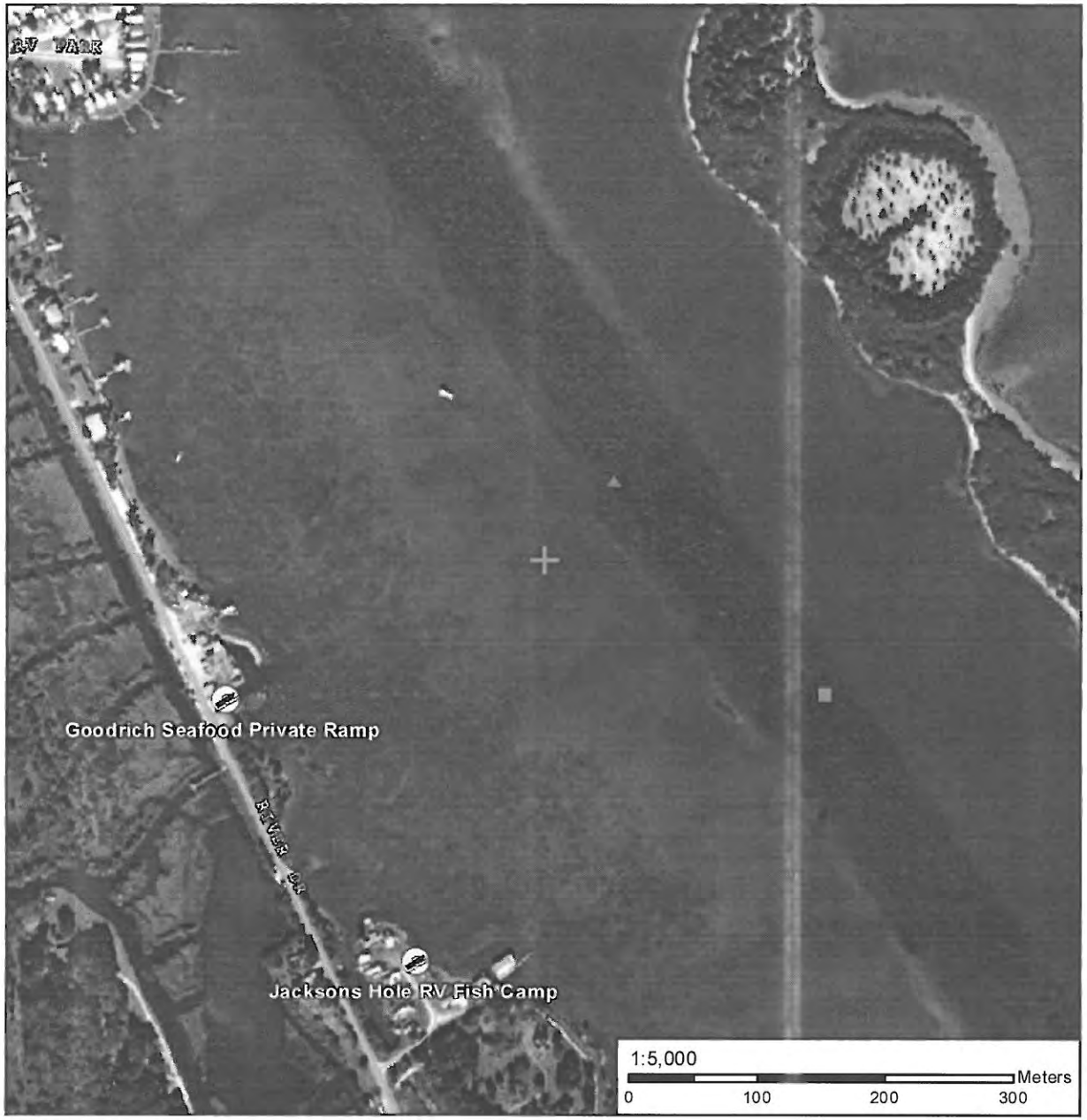
FWC EC: CNR
FWC NE: NJG, CAR
FWC LE: Ofc. C. Goodreau, Ofc. M. Malicoat
Volusia County Marine Mammal Stranding Team

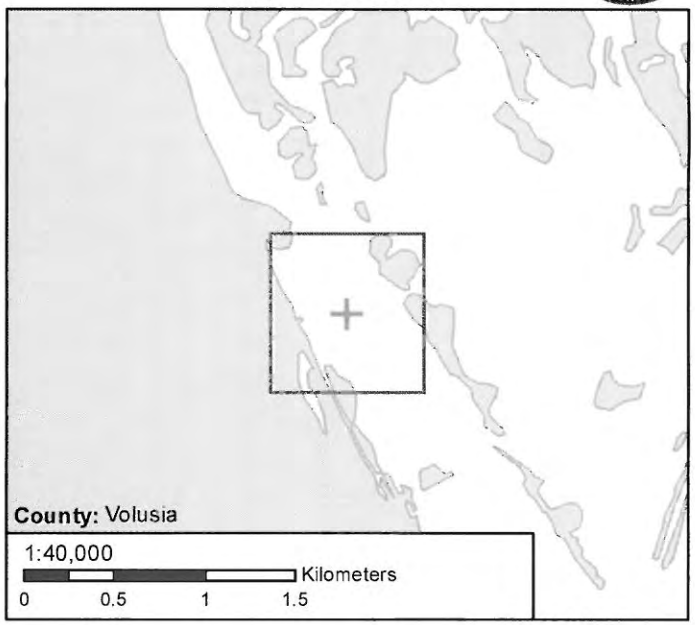
Edited by:
TRR
DJS
AJG

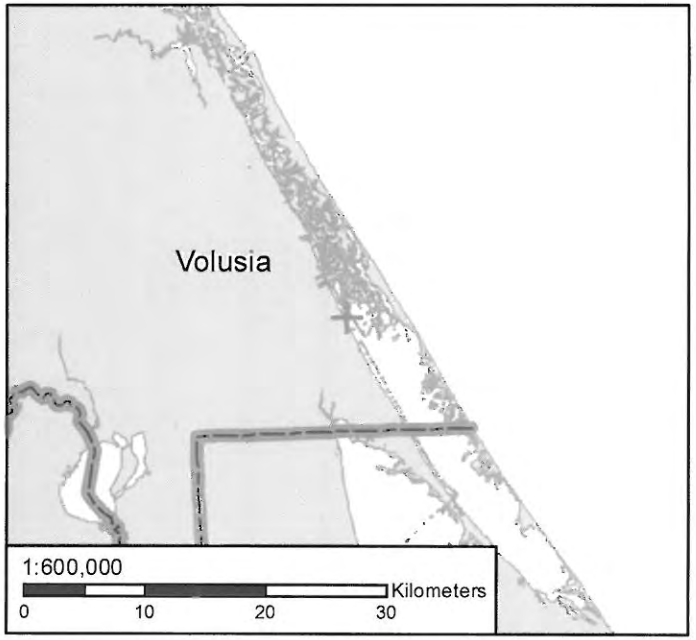
(02/20/2013)

Verified Response Location of Manatee Rescue REC1410

Rescue Date: 6/28/2014 **Facility ID:** N/A Map Created 2/4/2016







Locality Description:
approximately 265 m ENE of 253 River Drive.

Latitude: 28.87447°N **Longitude:** -80.8372°W

Asst. + Rel

Entanglement

Szemer, Donna

From: Garrett, Andy
Sent: Monday, June 30, 2014 9:04 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: rescue update

Ormond Beach:

Last Wednesday, staff from FWC and VC responded to a tidally stranded adult female on Disappearing Island. The manatee was found high and dry and the tide was still on its way out. Responders decided to relocate the manatee to deeper water after a short work-up.

Edgewater: ~~RSW 14-18?~~ REC 1410

On Saturday morning, FWC-NEFL staff received a report of an entangled manatee calf south of Edgewater. VC staff responded and stayed on scene while NEFL staff prepared rescue equipment. FWC LE also responded. While NEFL staff were in route, FWC LE were able to disentangle the manatee which ended up being the cow and not the dependent calf. The entanglement was loosely wrapped around the adult's pectoral flipper.

What kind of Entanglement?
Update DRase

-Andy

Szemer, Donna

From: Gordon, Nadia
Sent: Friday, September 26, 2014 9:40 AM
To: Rush, Christine; Szemer, Donna
Subject: RE: REC1410

I don't recall, but I assume the officer would.

From: Rush, Christine
Sent: Thursday, September 25, 2014 4:05 PM
To: Szemer, Donna; Gordon, Nadia
Subject: RE: REC1410

Yes, that's why I mentioned that it was still a functioning crab trap. The loop in the line was cut, but the crab pot assembly was still complete and left on site. Nadia, do you know what flipper it was? The complainants that I spoke to couldn't give me specifics.

From: Szemer, Donna
Sent: Thursday, September 25, 2014 1:37 PM
To: Rush, Christine; Gordon, Nadia
Subject: REC1410

Hi!

Can either of you find out which flipper was entangled in the crab trap loop?

I assume the "loop" was a tied loop and therefore the trap and float were still attached when the loop was cut.

The first time I read the report I thought that the line to the trap had been cut, but the loop and buoy was still attached to the calf. (as written: "Rachelle stayed with the animals until FWC LE arrived on-scene and cut the crab trap line with a pocket knife. The large calf had the line wrapped around one pectoral flipper. Once released by FWC LE the large calf immediately submerged and both animals swam away.")

Thanks!
Donna

Szemer, Donna

From: Rush, Christine
Sent: Wednesday, October 01, 2014 9:07 AM
To: Szemer, Donna
Subject: FW: remember that entangled manatee from Oak Hill...

From: Goodreau, Chris
Sent: Tuesday, September 30, 2014 5:13 PM
To: Rush, Christine
Subject: RE: remember that entangled manatee from Oak Hill...

It was the left flipper. The rope was not cinched around the flipper it was a large loop approx 6 inches in diameter that the flipper was stuck thru.

Chris

From: Rush, Christine
Sent: Tuesday, September 30, 2014 10:28 AM
To: Goodreau, Chris
Subject: remember that entangled manatee from Oak Hill...

Yep, we're still talking about that one. I just have one more question. Do you remember which flipper was entangled in the line?

Christine N. Rush
Marine Mammal Biologist
1220 Prospect Ave.
Suite 285
Melbourne, FL 32901

Office (321) 953-5037
Cell (321) 228-5277

Resc/Rel
7/21/14 2/27/17

Rescue Report

MEC1411

Calf by itself

General

Date of Rescue: 21 July 2014 Date of Initial Call: 21 July 2014 Filed by: A. Spellman

Rescue ID: REC1411 Facility ID: SWFTm1408B Other ID: Blanche

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 110 cm Estimated: No Weight: 22 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Port St. John County: Brevard Waterway: Indian River

Latitude (Decimal Degrees): 28.46799° N Longitude (Decimal Degrees): -80.76443° W

Locality Description: FPL-CCEC on south west end of intake canal, approximately 85 m NE of 5800 N Highway 1.

Method of Capture: Hoop net

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☒ Orphan ☐ Other: (Specify): _____

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
21 July 2014	At 0917 hrs, FWC biologist-Ann C. Spellman (ACS) received a direct call from Florida Power and Light (FPL)-Jodie Gless regarding a small manatee found alone at the FPL Plant in Port St. John. Plant staff-Doug Foust had spotted the manatee and felt it was too small to be without a mother. He reported that despite adults in the area, the calf did not appear to be with any one adult in particular. ACS requested a photo then contacted FWC volunteer-Leo J. Cross (LJC) to ask him to verify the report while ACS prepared and collected equipment for a possible rescue. ACS advised FWC Rescue Coordinator-Andy J. Garrett (AJG) of the possible rescue and also called Sea World to see if they had room to take a possible orphan. SWF indicated they could accept the calf.

	After arriving on scene and observing the calf, LCJ contacted ACS to advise that he thought the calf was with an adult. Shortly afterwards though, LCJ called back to advise that the adults had left and the calf was again alone. Based on photos from the plant, ACS concluded that the very small calf was too young to be alone or 'parked' and looked to be slightly emaciated. ACS located the calf and observed it for some time, watching as it attempted to nurse unsuccessfully on different adults as well as one that was determined to be a male when it rolled over. Based on the calf's thin appearance, behavior, and lack of a mother, ACS decided to rescue the calf. Using a hoop net, LCJ was able to net the manatee on the first attempt. ACS and LCJ lifted the manatee over the seawall, and LCJ carried the calf to the truck where it was placed in a shallow pool of water. LCJ drove the truck to SWF while ACS and day volunteer, Dave Soto tended to the calf in the back. The calf maintained a regular respiration pattern of one breath every 45- 60 seconds and made the trip calmly.

PARTICIPANTS

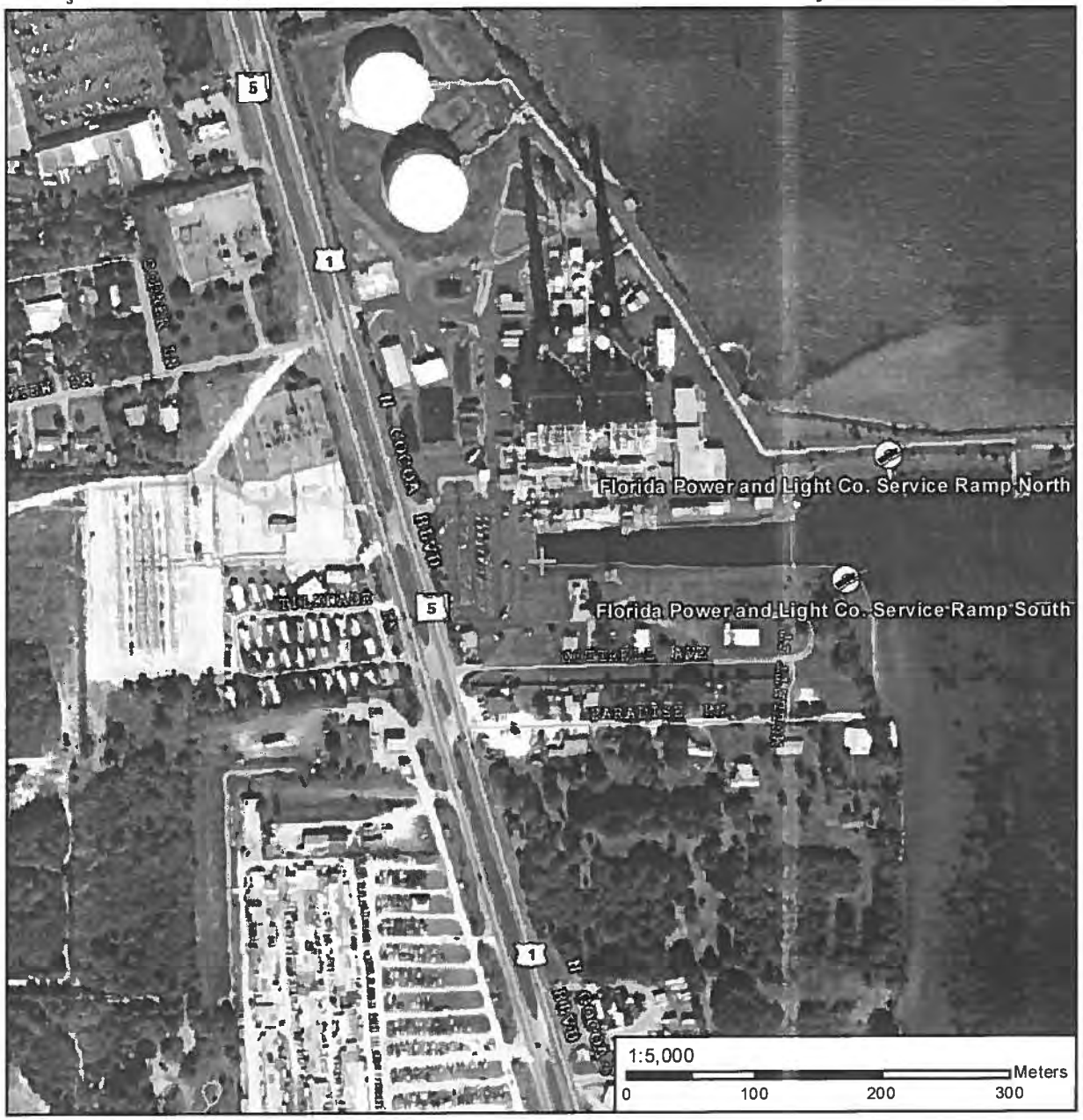
FWC; A. Spellman
FWC Volunteer: L. Cross and D. Soto
FPL: D. Foust

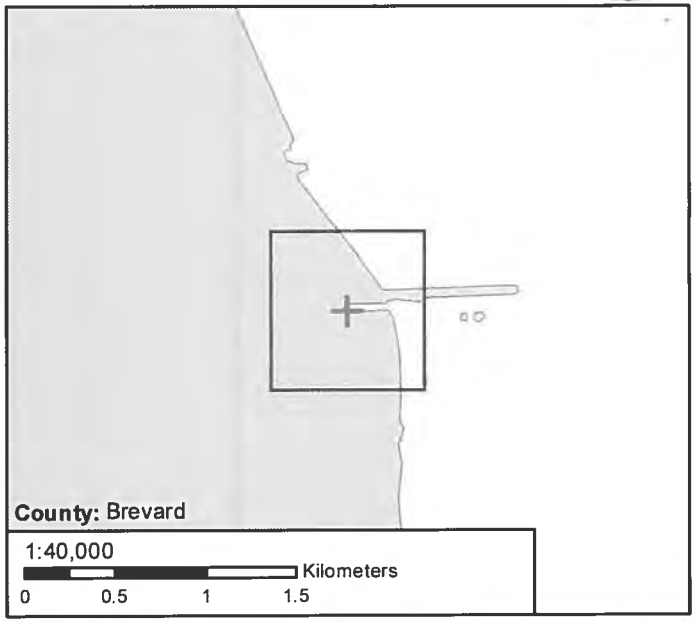
Edited by:
TRR
DJS
AJG

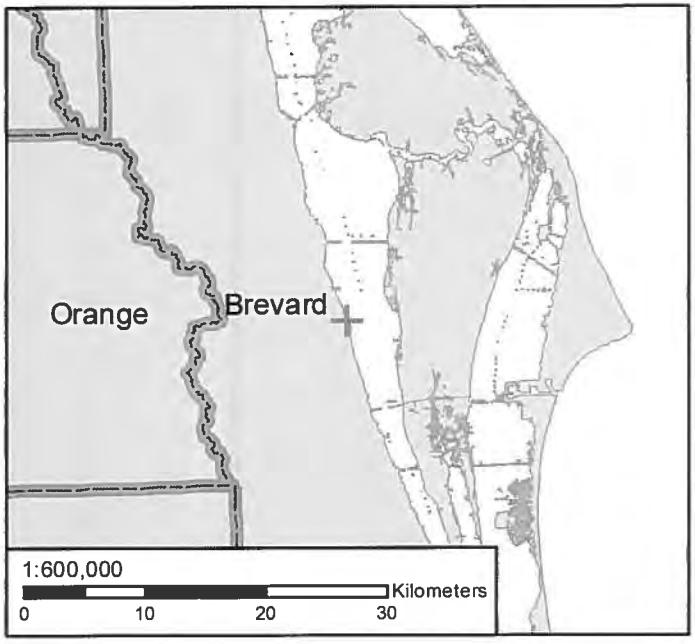
(02/20/2013)

Verified Response Location of Manatee Rescue REC1411

Rescue Date: 7/21/2014 **Facility ID:** SWFTm1408b Map Created 2/4/2016







Locality Description:

FPL-CCEC on south west end of intake canal, approximately 85 m NE of 5800 N Highway 1.

Latitude: 28.46799°N **Longitude:** -80.76443°W

Kesc

Szemer, Donna

SWFTM14 088

REC1411

From: Garrett, Andy
Sent: Monday, July 21, 2014 1:02 PM
To: Adrienne Atkins; Allison.Honaker; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Craig Miller; Craig Pelton; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Trevor Gerlach; Virginia Edmonds; Ward, Leslie
Subject: rescue update

FPL plant (Brevard):

Staff from the FWC-ECFL received a report of a very small calf swimming by itself from workers at the FPL plant this morning. A ECFL volunteer responded and observed the very small manatee swimming near a few larger manatees. After observing for some time, FWC biologists determined that the new born calf was attempting to suckle off any manatee in its vicinity including males (not sure how ECFL staff determined they were males, but I assume the manatees rolled). A decision was made to capture the calf and it is currently being transported to Sea World.

-Andy

Orphaned manatee calf rescued from Indian River

SWFTM1408E
REC1411

Posted: Tuesday, July 22, 2014 5:51 AM EDT
Updated: Tuesday, July 29, 2014 5:51 AM EDT

PORT ST. JOHN, Fla. (WOFL FOX 35) - An orphaned manatee calf was rescued Monday from the Indian River in Port St. John, Fla., near the FPL power plant, by the Florida Fish and Wildlife Conservation Commission.

The estimated two-week-old female was spotted swimming alone by members of the FPL power plant, who contacted the FWC.

The calf, which weighs 48 pounds and measures 48 inches in length, was transported by the FWC to SeaWorld Orlando, where the SeaWorld Animal Rescue Team and veterinary staff performed a complete health exam, took blood samples and began providing an antibiotic treatment. The calf will receive around-the-clock care, including regular tube feedings, and her health will continue to be monitored.

The calf joined three other orphans, who are also receiving rehabilitative care at the park. Manatee calves normally nurse for one to two years. They depend on their mothers not only for nutrition, but also for learning about feeding and resting areas.

SeaWorld Orlando uses a special formula created by the park's animal care team specifically for manatee calves to ensure they are receiving proper nutrition.

So far in 2014, SeaWorld has rescued 8 and returned 7 manatees back to their natural environment. In collaboration with the government and other members of accredited stranding networks, SeaWorld Parks & Entertainment operates one of the world's most respected programs to rescue ill and injured marine animals, with the goal to rehabilitate and return to the ocean. SeaWorld animal experts have helped more than 23,000 animals in need - ill, injured, orphaned and abandoned - for more than four decades.

If you see an injured marine animal, you can help by calling the FWC hotline at 1(888) 404-3922 or by dialing *FWC on a cellular device.

http://www.myfoxorlando.com/story/26077548/orphaned-manatee-calf-rescued-from-indian-river

Orphaned Manatee Calf Recuperating at SeaWorld Orlando

SW FTM14081
REC14 11

Tuesday, Jul 22, 2014 • Updated at 6:43 AM EDT

An orphaned manatee calf is recuperating at SeaWorld Orlando after it was rescued from a river near a Florida Power and Light power plant in Port St. John. Workers at the FPL plant called the Florida Fish and Wildlife Conservation Commission after spotting the two-week-old female swimming alone in the Indian River near the plant.

"We monitored the animal, it did not seem to have a mother with it and we made the decision to rescue the animal," FWC lead marine biologist Ann Spellman said.

The calf, which weighs 48 pounds and is 48 inches, was taken to SeaWorld, where it was given a physical exam and checked out by the veterinary staff.

The goal is to rehab the manatee and return it to the wild. The park has rescued eight manatees so far this year and returned seven back to their natural environment.

http://www.nbcmiami.com/news/local/Orphaned-Manatee-Calf-Recuperating-at-SeaWorld-Orlando-268079591.html

Manatee calf rescued, adopted at SeaWorld Orlando

SWFTM1408B
REC1411

Posted: Thursday, July 24, 2014 4:36 AM EDT
Updated: Thursday, July 24, 2014 4:37 AM EDT

By WFLA.com web staff

ORLANDO, FL (WFLA) - SeaWorld Orlando experts will now be taking care of a small orphanated baby manatee that was rescued near the Indian River in Port St. John by the FPL power plant, NBC-2 in Orlando reported.

The calf only weighs 48 pounds, is about four feet long and is probably 2 weeks old, experts told NBC-2. The power plant workers spotted it swimming all alone and contacted the Florida Fish and Wildlife Conservation Commission.

SeaWorld Orlando experts took the baby manatee in; it will join three other orphans that live in the park.

This year SeaWorld rescued eight manatees and returned seven into their natural environment, NBC-2 reported.

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Manatee calf rescued and recovering

Posted: Thursday, September 11, 2014 10:25 AM EDT
Updated: Thursday, September 11, 2014 12:19 PM EDT
By Kayla O'Brien, Web Producer -

SWFTM 14086
REC1411

Experts say an orphaned manatee calf that was rescued in July from the Indian River in Port St. John, is responding well to treatment and is almost ready to start eating solid foods.

The female calf, now approximately nine weeks old, is being bottle fed by members of the SeaWorld Animal Rescue Team every three hours around the clock.

The formula was created at SeaWorld and consists of a special mixture of infant formulas, tropical oils, nutrients and water.

Rescue crews say when the calf first arrived at SeaWorld it weighed 48 pounds. After six weeks of rehabilitation, it now weighs 71 pounds.

Officials say the calf will continue to receive round-the-clock care, including regular bottle feedings, until she's ready for solid foods such as lettuce; and her health will continue to be monitored.

So far in 2014, SeaWorld has rescued 8 and returned 8 manatees back to their natural environment. In collaboration with the government and other members of accredited stranding networks,

If you see an injured marine animal, you can help by calling the FWC hotline at 1(888) 404-3922 or by dialing *FWC on a cellular device.

http://www.myfoxorlando.com/story/26507167/manatee-calf-rescued-and-recovering

Manatee Information (MLog:**1597**)

Animal ID:**SWFTm1408B** Sex:**F** Name:**Blanche** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 03/17/2016 **Tag ID** 00075A10A6

Tag ID 00075A10A6

Information: Pit tagged in left shoulder area with #00075A10A6.

Event: Rescue **Event Date** 07/21/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/20/2016

Updated By: D **Updated Date:** 03/20/2016

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 03/17/2016 **Tag ID** 00075A45C8

Tag ID 00075A45C8

Information: Pit tagged in right shoulder area with #00075A45C8.

Event: Rescue **Event Date** 07/21/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/20/2016

Updated By: D **Updated Date:** 03/20/2016

Entered PIT + Captive. 3/14/17 DJS

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*)

(727) 896-862

Manatee ID: SWF Tm 14086 Capture ID: _____ Data Recorder: SARA M. WHEELER

Name: Blanche Date: 27 FEB 2017

ID of its Calf / Mom: _____ Sex: M / (F)

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: PORT ST JOHN BOAT RAMP
Latitude: 28.4751056 N
Longitude: -80.7665556 W
Water Temp: 26.2 (C) F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: 1135

EVENT: ____Capture ____Rescue ____Pre-release Assess. ✓Release ____Post-release Assess.

Workup Site: Air Temp = 25.7 (C) F Wind: 12 mph ___ Cloud Cover: S (PC) MC O R

MORPHOMETRICS	Weight: (lb or kg) 776 = (352Kg) Lbs	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	253	
	Total Length (straight)	238	
	Snout to Peduncle	167	
	Snout to Anus	139	
	Snout to Umbilicus	94	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 108 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	168	
	Girth at Umbilicus: (actual) or ½	195	
	Girth at Axilla: (actual) or ½	154	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION		
	Body Score: 1 2 (3+) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	Rounded / (Flat) / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	WILLIAM GREER
	Clinical Assessment Data Sheet?	Y / (N)
REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating?	Y / (N)
MONITORING	Heartrate: Stethoscope EKG Doppler (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? (Y) N	Y (N)
FREEZE BRAND	Letters/Numbers applied: F3	Applied by: SWF
	Location(s): SIDE OF PEDUNCLE	

Form Revised: 6 December 2012

Manatee ID: SWFTm 1408b Capture ID _____ Date: 02/27/2017

BLOOD	Collect Blood? Y / (N)	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	

SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze
Urine?	Y / N	Refrig / Freeze / EtOH
Fecal?	Y / N	Freeze / EtOH
Skin Scraping?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Skin Biopsy?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Tail Cookie?	Y / N Location: _____	Freeze / / DMSO
Mucosal Swab?	Y / N Oral / Rectal	Refrig
Other?	Y / N Tear Film / _____	Freeze / _____
PIT TAG	Scanned for previous PIT tag? (Y) / N	PIT tagged at this capture? Y / (N)
	PIT tagged by:	JON PETERSON - SWFA WORLD ORLANDO
	Right # Entered captive	00 - 075A - 45
	Left #	00 - 075A - 10A6
TELEMETRY	Tag Type	(Argos-GPS) / PTT / VHF
TAG	Tag ID#	64245
	Tag / Antenna Color(s)	Tag: ORANGE w/ BLUE Antenna: YELLOW / WHITE
	VHF Frequency	164.947 MHz
	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec
BELT	ID# / Size / Color	~~FWC~~_____ Length: 40 in. Color: RED
	Belt Sonic ID: FWC_____	Freq: kHz Code: PI: msec
	Belt Knot / Webbing Exposed	(Left) / Right 1.5 inches
	CR2a Programmed Release	Y / (N) Date/Time:

LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number	20038501		
	Logger Location	TETHER		
TETHER	Strength / Joiner / Length	Strength: 47 hs / tcc	Length: 4 ft.	
	Tagged by:	MELODY FISCHER - SWFA TM SW		
PHOTOGRAPHS	Taken by:	SARA M. WARREN		
	Exposures:	FWL025_2017-02-27_8932-8941, 8949-8956		
SKETCHES	Sketched by:	WILLIAM O. GREER		

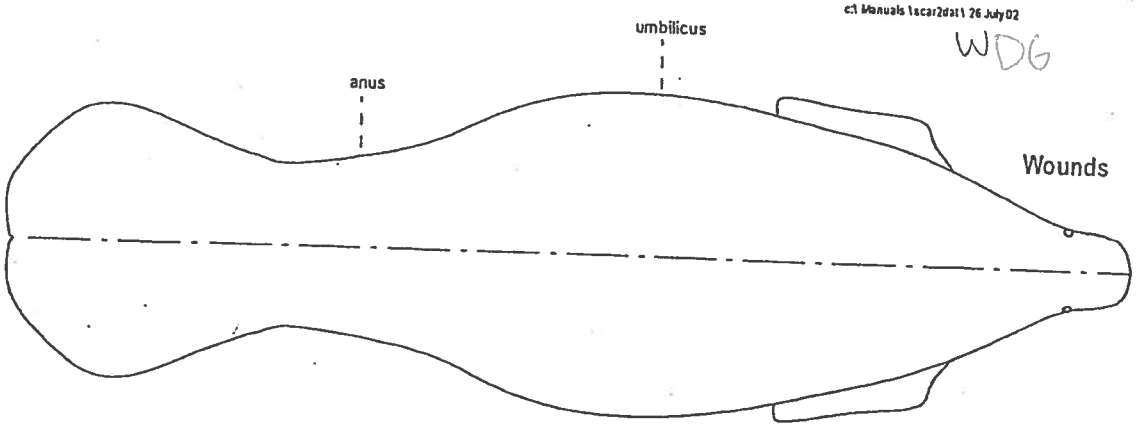
COMMENTS

Date 27 FEB 2017

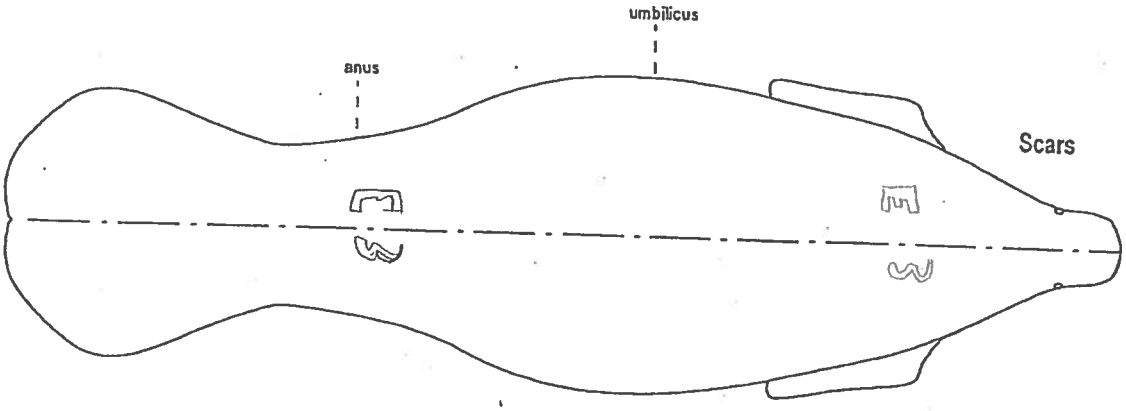
Field I.D. Blanche SWR 7m/40B B

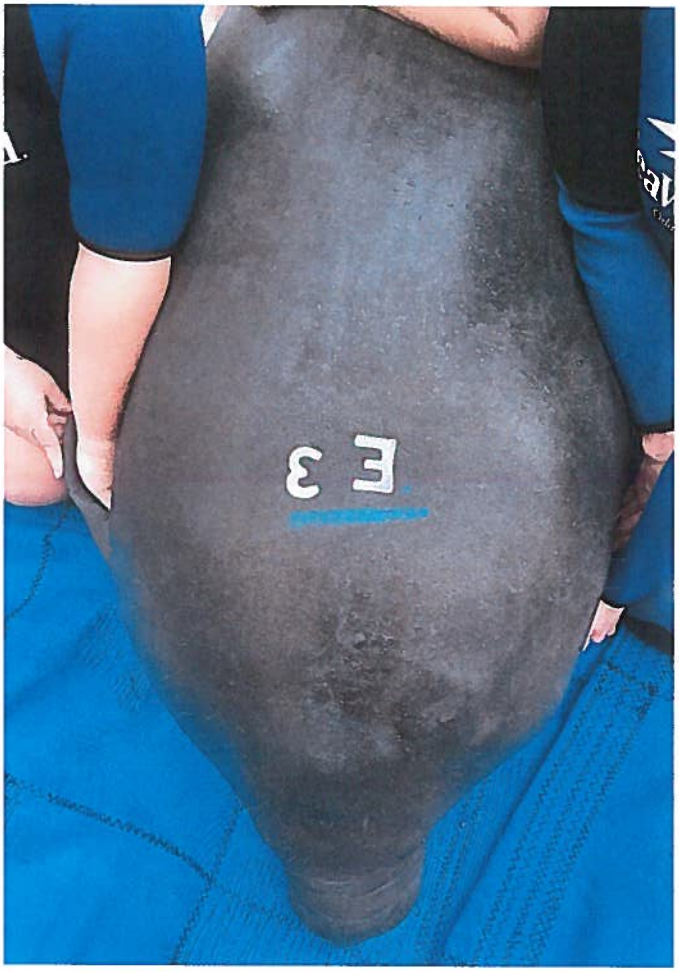
c:\ Manuals \ scar2dat \ 26 July 02

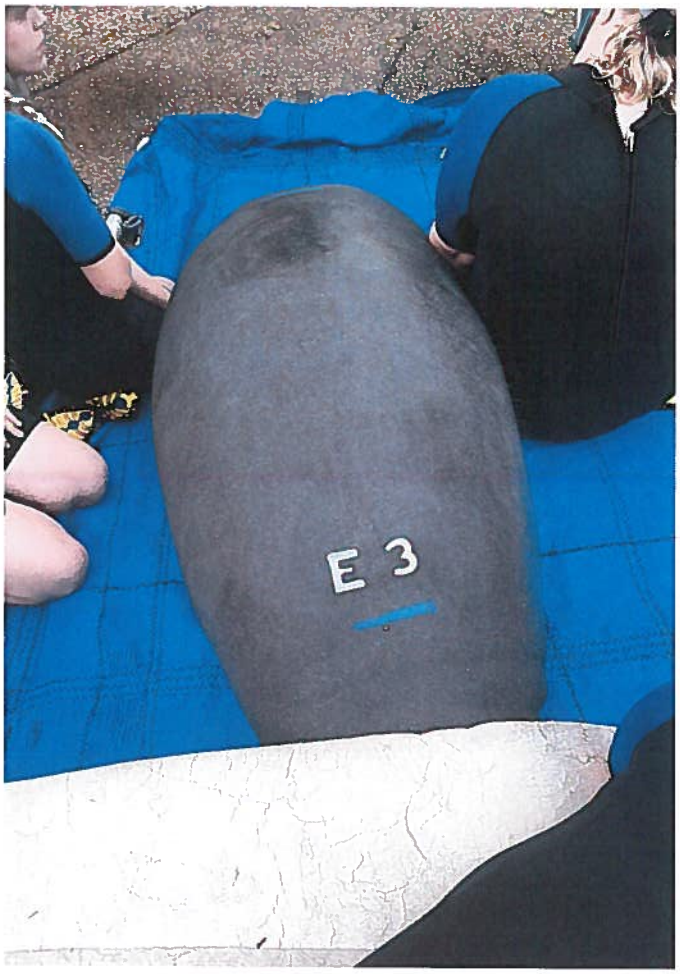
WDG

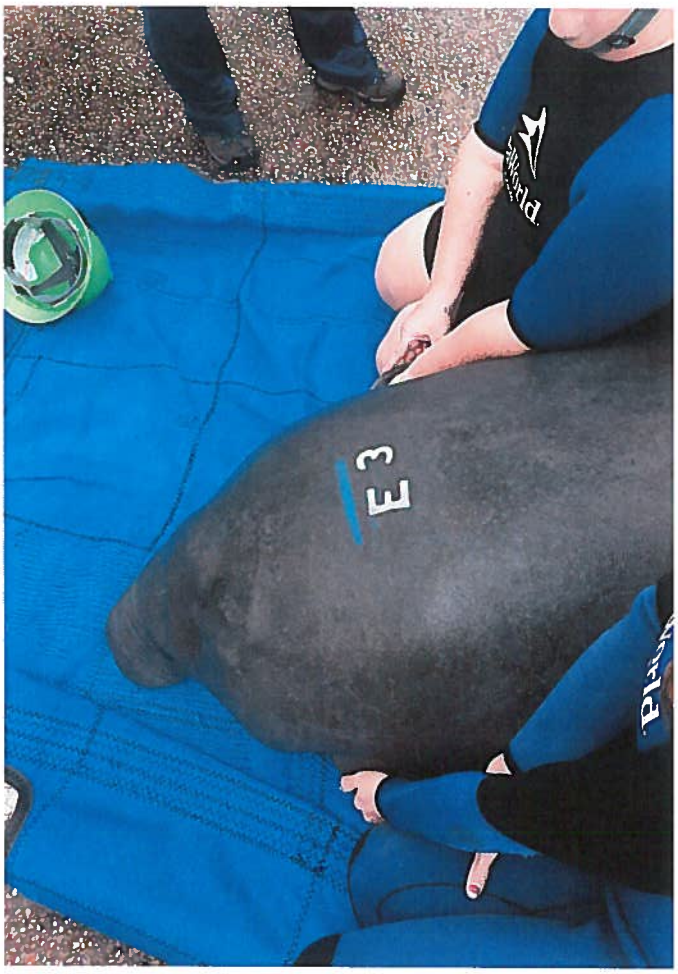


Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				









Blanche
SWFTM1408B

Manatee Information (MLog:**1597**)

Animal ID:**SWFTm1408B** Sex:**F** Name:**Blanche** Rearing:**Orphan hand reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 03/17/2016 **Tag ID** 00075A10A6

Tag ID 00075A10A6

Information: Pit tagged in left shoulder area with #00075A10A6.

Event: Rescue **Event Date** 07/21/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/20/2016

Updated By: D **Updated Date:** 03/20/2016

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 03/17/2016 **Tag ID** 00075A45C8

Tag ID 00075A45C8

Information: Pit tagged in right shoulder area with #00075A45C8.

Event: Rescue **Event Date** 07/21/2014

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 03/20/2016

Updated By: D **Updated Date:** 03/20/2016

Resc / Rel
3/25/15

Rescue Report

REC1412

Natural Cold Stress

GENERAL

Date of Rescue: 28 December 2014 Date of Initial Call: 19 December 2014 Filed by: C. Rush/A. Spellman

Rescue ID: REC1412 Facility ID: SWFTm1413b Other ID: Streak

FWC Case Number: N/A FWC Region: NE

Sex: Male Length: 258 cm Estimated: No Weight: 300 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Orange City County: Volusia Waterway: St. Johns River

Latitude (Decimal Degrees): 28.94565° N Longitude (Decimal Degrees): -81.33934° W

Locality Description: Blue Springs Run, approximately 70 m NNW of the park's swim dock

Method of Capture: Net set from boat.

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☒ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
19 December 2014	FWC-biologist Christine N. Rush (CNR) received an email from Sea2Shore-biologist Monica Ross (MR) regarding a cold-stressed manatee that Save the Manatee Club's Wayne Hartley (WH) had documented earlier in the day. The manatee of concern had been seen on 10 December in Welaka Spring by MR and discussions of a possible rescue were initiated, but the manatee disappeared. The manatee was identified as "Streak," a known Blue Spring animal. Given the warmer weather and the manatee's arrival at Blue Spring, a decision was made to have WH monitor the manatee to see if it would improve on its own.

23 December 2014	CNR contacted WH for an update on the manatee's condition. According to WH, the manatee appeared to be improving, using its flippers more and swimming more freely.
24 December 2014	WH emailed more pictures taken with the GoPro late in the afternoon.
26 December 2014	WH emailed additional pictures from the GoPro. The manatee appeared to be in very poor shape.
27 December 2014	Blue Spring Ranger and FWC-volunteer Diane S. Schwartz (DSS) contacted CNR on her cell phone regarding the manatee of concern. DSS reported that the manatee was surface resting, not moving much, and not using its flippers at all. CNR arrived on scene but had a difficult time assessing it because of glare and surrounding vegetation. CNR and Hubbs SeaWorld biologist-Teresa Jablonski (TJ) performed an in-water assessment to view the manatee better and to determine if it was passing gas or not. CNR determined that the manatee's condition was poor and it needed to be rescued as soon as possible. CNR contacted FWC-Rescue Coordinator Andy J. Garrett (AJG) to inform him that a rescue was necessary. CNR then contacted SeaWorld-Randy Runnells and informed him of the manatee and requested assistance. RR informed CNR that SeaWorld would be able to supply a boat and a few people, but would probably not be able to accept the manatee. CNR contacted Lowry Park Zoo-Virginia Edmunds and got permission to transport the manatee there for rehabilitation if needed. CNR contacted her supervisor FWC-biologist Ann C. Spellman (ACS) and several FWC volunteers to put together a rescue group for the following morning. CNR also made contact with SeaWorld-Bob Wagoner (BW) since he was the manager for the following day.
28 December 2014	DSS and Blue Spring State Park-volunteer Laura began searching for the manatee shortly after sunrise. At 0850 hrs, CNR was advised that the manatee had been located. ECFL staff was already en route to the park. CNR contacted BW to let him know the manatee had been located. BW indicated that SeaWorld could accept the manatee for rehabilitation. CNR contacted VE to inform her of the change of venue for rehabilitation. The FWC rescue team met at Blue Spring State Park and continued to observe the manatee. The SeaWorld rescue team launched their boat from the French Ave. boat ramp and picked up CNR and all but four of FWC's team at the canoe beach in Blue Spring. Four swimmers, led by ACS, were placed in the water in an attempt to herd the manatee towards the spring head. Once the manatee was close to the swim dock, a slow, shore-to-shore net set was made. The net encircled the manatee but also snagged on several big logs. While attempting to free the net, the manatee escaped. Trying a different approach, ACS had the other three swimmers and the boat hold back while she very slowly worked the manatee along the west shoreline and into a region of the run that had fewer obstructions just north of the swim dock. Another shore-to-shore net set was made, successfully catching the manatee. The manatee was taken to

	the boat ramp, loaded into the transport truck, and transported to SeaWorld by FWC staff.

PARTICIPANTS

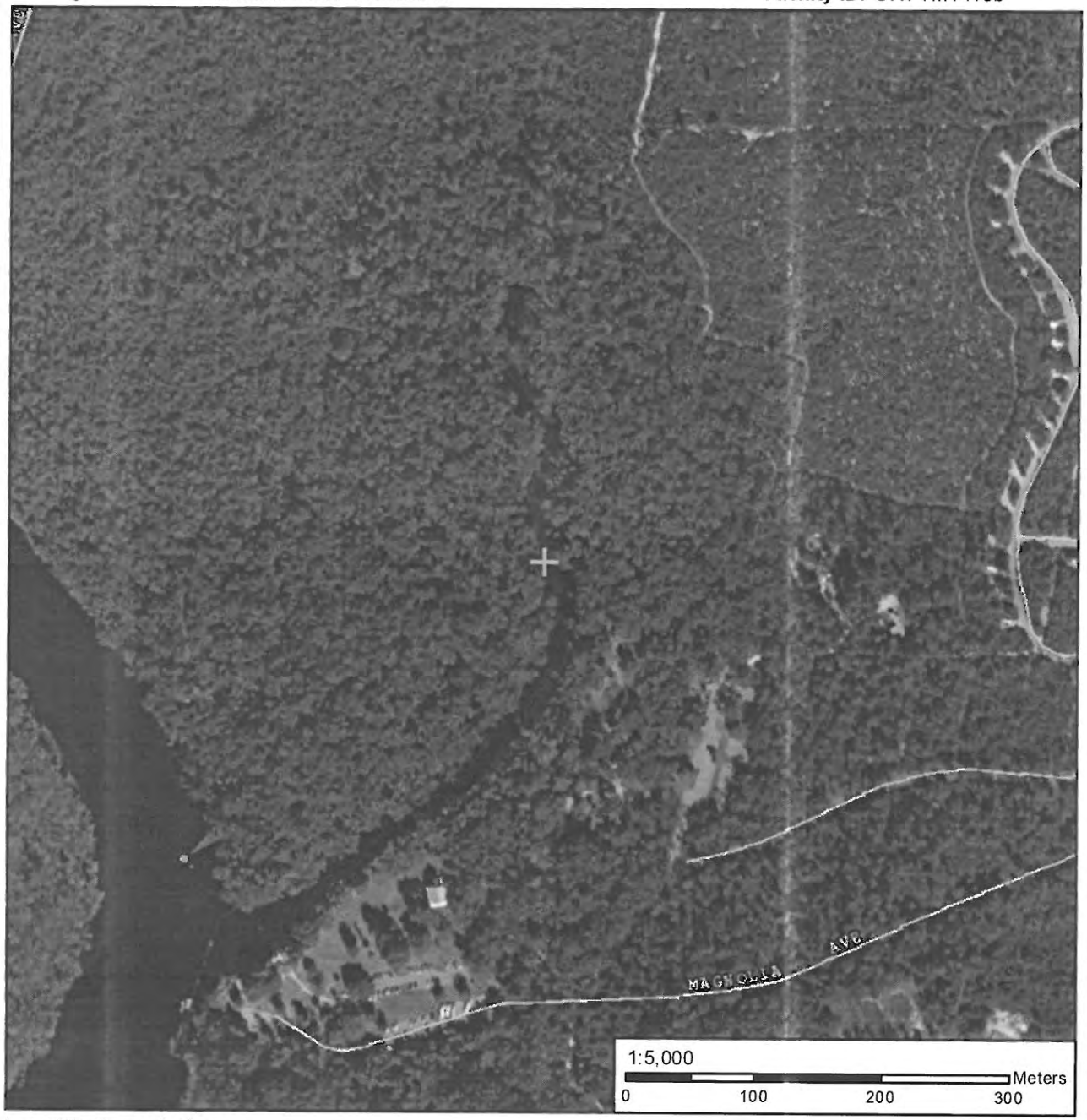
FWC: C. Rush, A. Spellman, D. Levine, L. Cross, D. Rush, D. Smith, J. White, D. Schwartz, J. Curren
Blue Spring volunteer: Laura
SeaWorld Animal Care staff

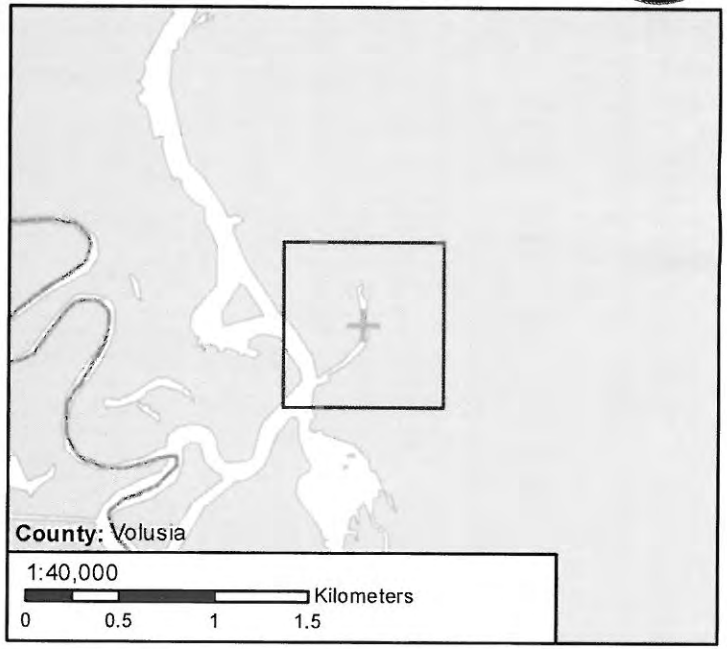
Edited by:
TRR
DJS
AJG

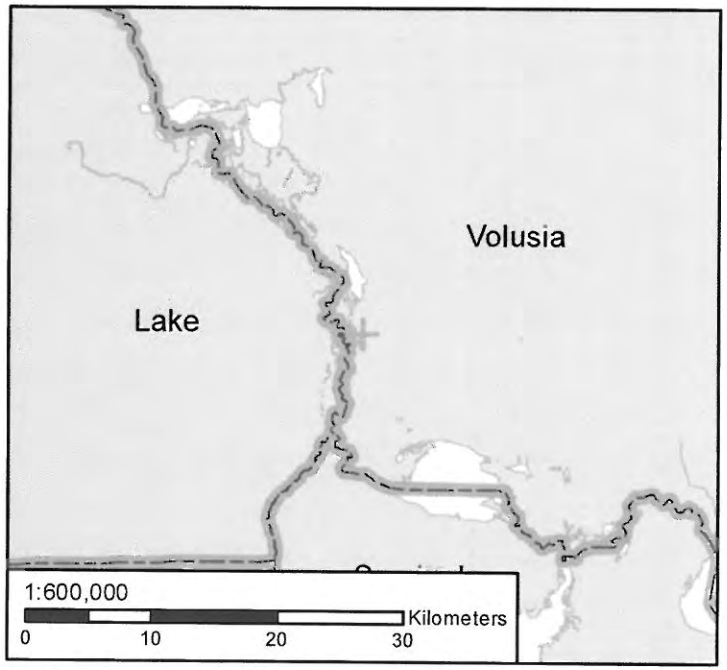
(02/20/2013)

Verified Response Location of Manatee Rescue REC1412

Rescue Date: 12/28/2014 **Facility ID:** SWFTm1413b Map Created 4/21/2016







Locality Description:
Blue Springs Run, approximately 70 m NNW of the park's swim dock

Latitude: 28.94565°N **Longitude:** -81.33934°W

Rec'd / Rel 3/25/15 Natural Cold Stress SWFTH1413B

REC1412

Szemer, Donna

From: Wagoner, Robert C. [Robert.Wagoner@SeaWorld.com]
Sent: Tuesday, December 30, 2014 11:53 AM
To: Szemer, Donna; Spellman, Ann
Cc: Rush, Christine; Levine, Daniel
Subject: RE: Preliminary Coordinates for REC14012

Donna,

The COR was cold stress, the animal was a male, TL was 258cm and his Wt. was 660 lbs. Please let me know if you need any other information from us.

Thanks,
Bob

From: Szemer, Donna [mailto:Donna.Szemer@MyFWC.com]
Sent: Tuesday, December 30, 2014 11:37 AM
To: Spellman, Ann; Wagoner, Robert C.
Cc: Rush, Christine; Levine, Daniel
Subject: RE: Preliminary Coordinates for REC14012

Thanks, Ann!

When you get the chance, can you send me the preliminary info. (COR, sex, length, etc.)? I need to compile the end of the year totals.

Happy New Year!
Donna

From: Spellman, Ann
Sent: Monday, December 29, 2014 12:03 PM
To: Wagoner, Robert C.
Cc: Rush, Christine; Levine, Daniel; Szemer, Donna
Subject: Preliminary Coordinates for REC14012

28.945606N -081.339373W
Volusia County, Orange City, Blue Spring run, ~65 m NW of swim dock

When you get a chance can you let me know the SWF ID number? Also how is he doing? Thanks for the help yesterday and for taking him- saved us about 4 hours of extra driving.

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Wagoner, Robert C. [Robert.Wagoner@SeaWorld.com]
Sent: Monday, December 29, 2014 12:10 PM
To: Spellman, Ann
Cc: Rush, Christine; Levine, Daniel; Szemer, Donna
Subject: RE: Preliminary Coordinates for REC14012

Thanks Ann. His number is SWFTm1413B, he's doing ok, hasn't started eating on his own, we are tubing him BID, he was much active this morning during the tubing. Thanks.

From: Spellman, Ann [mailto:Ann.Spellman@MyFWC.com]
Sent: Monday, December 29, 2014 12:03 PM
To: Wagoner, Robert C.
Cc: Rush, Christine; Levine, Daniel; Szemer, Donna
Subject: Preliminary Coordinates for REC14012

28.945606N -081.339373W
Volusia County, Orange City, Blue Spring run, ~65 m NW of swim dock

When you get a chance can you let me know the SWF ID number? Also how is he doing? Thanks for the help yesterday and for taking him- saved us about 4 hours of extra driving.

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Wagoner, Robert C. [Robert.Wagoner@SeaWorld.com]
Sent: Tuesday, December 30, 2014 11:53 AM
To: Szemer, Donna; Spellman, Ann
Cc: Rush, Christine; Levine, Daniel
Subject: RE: Preliminary Coordinates for ~~REC14~~012

REC1412

SWFTM14138

Donna,

The COR was cold stress, the animal was a male, TL was 258cm and his Wt. was 660 lbs. Please let me know if you need any other information from us.

Thanks,
Bob

From: Szemer, Donna [mailto:Donna.Szemer@MyFWC.com]
Sent: Tuesday, December 30, 2014 11:37 AM
To: Spellman, Ann; Wagoner, Robert C.
Cc: Rush, Christine; Levine, Daniel
Subject: RE: Preliminary Coordinates for REC14012

Thanks, Ann!

When you get the chance, can you send me the preliminary info. (COR, sex, length, etc.)? I need to compile the end of the year totals.

Happy New Year!
Donna

From: Spellman, Ann
Sent: Monday, December 29, 2014 12:03 PM
To: Wagoner, Robert C.
Cc: Rush, Christine; Levine, Daniel; Szemer, Donna
Subject: Preliminary Coordinates for REC14012

28.945606N -081.339373W
Volusia County, Orange City, Blue Spring run, ~65 m NW of swim dock

When you get a chance can you let me know the SWF ID number? Also how is he doing? Thanks for the help yesterday and for taking him- saved us about 4 hours of extra driving.

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"Life is not about outrunning the storm; it's about learning to dance in the rain"

examiner.com

REC1412
SWFTM14138

Distressed manatee rescued by SeaWorld Orlando - watch the amazing rescue

January 2, 2015

Distressed Manatee rescued at Blue Springs State Park by SeaWorld Orlando
Courtesy SeaWorld Orlando

In the winter months, the water turns very cold even in Florida. Many manatees travel to the area of Blue Spring State Park, near Orange City, Fla., to bask and mate in the temperate waters there. They head for warm water sources such as freshwater springs or power plants like those at the State Park. On Dec. 28, the SeaWorld Orlando Animal Rescue Team was called into action. Their goal: immediate rescue of a cold-stressed, adult male manatee who needed to be taken from the St. Johns River to save his life.

The SeaWorld team worked alongside members of the Florida Fish and Wildlife Conservation Commission (FWC) to successfully rescue the manatee and transport him to SeaWorld. When the team arrived, they fully examined the 8-foot-long, 660-pound manatee. He was given fluids and antibiotics to treat any possible infection. Over the next several weeks, the SeaWorld Orlando Animal Team will closely monitor the manatee's progress.

This was the 13th manatee rescue of 2014, and the SeaWorld team has returned nine back to their natural environments this year. As part of the Manatee Rescue & Rehabilitation Partnership (MRP), SeaWorld Orlando is an acute care rehabilitation facility that provides life-saving medical care to rescued manatees.

SeaWorld Parks & Entertainment operates one of the world's most respected programs to rescue ill and injured marine animals, with the goal to rehabilitate and return them to the ocean. SeaWorld animal experts have helped more than 24,000 animals in need - ill, injured, orphaned and abandoned - for more than five decades. They collaborate with the government and other members of accredited stranding networks.

According to the Save the Manatee Club, manatees are gentle and slow-moving animals. Most of their time is spent eating, resting, and traveling. The Florida Manatee Recovery Plan was developed as a result of the Endangered Species Act. The recovery plan is coordinated by the U.S. Fish & Wildlife Service (USFWS) and sets forth a list of tasks geared toward recovering manatees from their current endangered status.

The MRP is a cooperative group of non-profit, private, state, and federal entities who work together to monitor the health and survival of rehabilitated and released manatees. Information about manatees currently being tracked is available at www.manateerescue.org.

The endangered Florida manatee is at risk from both natural and man-made causes of injury and mortality. Exposure to red tide, cold stress, and disease are all natural problems that can affect manatees. Human-caused threats include boat strikes, crushing by flood gates or locks, and entanglement in or ingestion of fishing gear.

If you love manatees, but can't get to Florida, you can watch them in their native environment courtesy of the Save the Manatee Club! If you have any further questions, the Club is a valuable resource for all things manatee. If you see an injured marine animal, you can help by calling the FWC hotline at 1-888-404-3922 or by dialing *FWC on your phone.

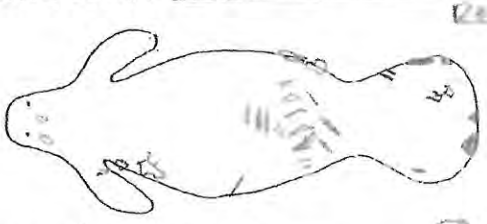
http://www.examiner.com/article/distressed-manatee-rescued-by-seaworld-orlando-watch-the-amazing-rescue

Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, 100 8th Ave. S.E., St. Petersburg, FL 33701 (727) 896-8626

FIELD SKETCH SHEET

Date: 25 March 2015 Location: Blue Springs, Orange City, Volusia Co.

Observer Code(s): CNR Sighting Times: _____ - _____



Field ID: 1 Size: CC - _____ (SU) AA

Calf: WC WC? Why: _____

Sex: (M) F How determined: (V) NC

Exposures: FWC015 - 2015-03-25:

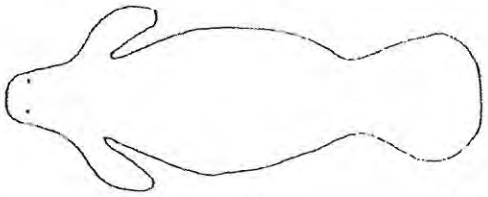
TL: 246 cm WT: 240 lbs

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: STRONG

REC 412 | SURFACE | 3b

PIT TAGS: (E) 000 75A323D (L) 2007 5ABCAA



Field ID: _____ Size: CC - _____ SU AA

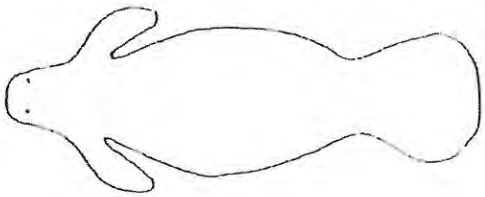
Calf: WC WC? Why: _____

Sex: M F How determined: V NC

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____



Field ID: _____ Size: CC - _____ SU AA

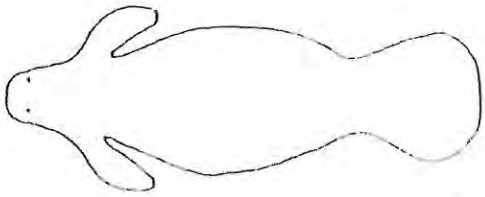
Calf: WC WC? Why: _____

Sex: M F How determined: V NC

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____



Field ID: _____ Size: CC - _____ SU AA

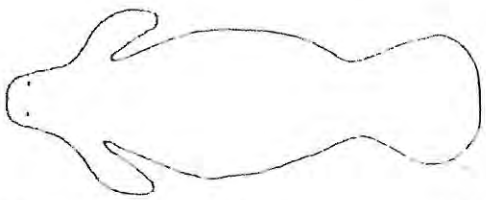
Calf: WC WC? Why: _____

Sex: M F How determined: V NC

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____



Field ID: _____ Size: CC - _____ SU AA

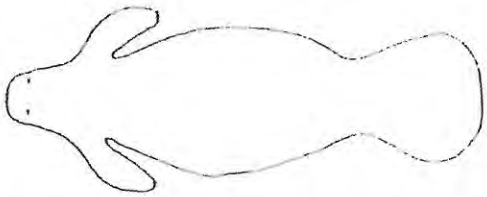
Sex: M F How determined: V NC

Calf: WC WC? Why: _____

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____



Field ID: _____ Size: CC - _____ SU AA

Sex: M F How determined: V NC

Calf: WC WC? Why: _____

Exposures: _____

Cold exposure: Head: ____ Trunk: ____ Tail: ____

Comments: _____

Other Comments: _____

News 13

SeaWorld returns manatee to wild on Manatee Appreciation Day

Steak was returned to Blue Springs State Park Wednesday, March 25, 2015 (PHOTO/SeaWorld Orlando)

Streak underwent care at SeaWorld Orlando and throughout his rehabilitation period, he jumped from 660 pounds to approximately 760 pounds. (PHOTO/SeaWorld Orlando)

Streak underwent care at SeaWorld Orlando and throughout his rehabilitation period, he jumped from 660 pounds to approximately 760 pounds. (PHOTO/SeaWorld Orlando)

Last Updated: Thursday, March 26, 2015, 8:35 AM

ORANGE CITY --

The SeaWorld Orlando Animal Rescue Team returned a manatee to Blue Springs State Park Wednesday, which was Manatee Appreciation Day.

The male manatee, Streak, was rescued in December due to cold stress from Blue Spring State Park near Orange City by SeaWorld and the Florida Fish and Wildlife Conservation Commission.

Streak underwent care at SeaWorld Orlando. Throughout his rehabilitation period he jumped from 660 pounds to approximately 760 pounds.

So far this year, SeaWorld Orlando has rescued 24 manatees and returned 26 manatees rescued this year and last year back to their natural environment.

If you see an injured marine animal, you can help by calling the FWC hotline at 1-888-404-3922 or by dialing *FWC on a cellular device.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2015/3/26/seaworld_returns_man.html

The Daytona Beach NewJournal

SWFTM14138
REC1412

Streak the Manatee released at Blue Spring after 3-month recuperation

By Dinah Voyles Pulver
dinah.pulver@news-jrnl.com

Published: Wednesday, March 25, 2015 at 6:00 p.m.

Last Modified: Wednesday, March 25, 2015 at 6:02 p.m.

Streak, a manatee rescued at Blue Spring State Park in December, was returned to the park in Orange City on Wednesday after a three-month recuperation at SeaWorld Orlando.

The manatee was rescued by a team from SeaWorld and the Florida Fish and Wildlife Conservation Commission after he was found to be suffering from cold stress, said SeaWorld officials. The park's animal care team treated the manatee, caring for wounds and lesions and giving him fluids to rehydrate him. Streak quickly began eating on his own, the park reported, gaining about 100 pounds during the three months he was in captivity.

So far this year, SeaWorld has rescued 24 manatees and returned 26 manatees back to Florida waterways, park officials said.

The park works with the Manatee Rescue and Rehabilitation Partnership, a group of non-profit, private, state and federal organizations that monitor manatees.

To follow manatees being tracked by satellite transmitter, visit manateerescue.org

To report an ill or injured manatee, call 888-404-3922 or *FWC on a mobile phone.

SeaWorld Orlando
Streak the manatee waits to be returned to the waters of Blue Spring State Park on Wednesday.

SeaWorld Orlando
Streak the manatee is returned to the spring run of Blue Spring State Park in Orange City Wednesday by the animal rescue team of Sea World Orlando and others.

Kesc / Kel
1/7/15 / 5/6/15

Rescue Report

REC1501

Watercraft

GENERAL

Date of Rescue: 07 January 2015 Date of Initial Call: 06 January 2015 Filed by: D. Levine/C. Rush

Rescue ID: REC1501 Facility ID: SWFTm1502b Other ID:

FWC Case Number: 0214 FWC Region: NE

Sex: Male Length: 206 cm Estimated: No Weight: 201 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Oak Hill County: Volusia Waterway: Mosquito Lagoon

Latitude (Decimal Degrees): 28.90464° N Longitude (Decimal Degrees): -80.86251° W

Locality Description: behind 110 Charles Street, E of the dock

Method of Capture: Boat-based net set

REASON FOR RESCUE

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☐ Penetrating Cuts ☒ Impact ☐ Other

Describe: Healing linear wound and underlying pneumothorax

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☒
Animal After Rescue	☒	☒
Wounds	☒	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
06 January 2015	At 1209 hrs, FWC-biologist Christine N. Rush (CNR) responded to a text alert from FWC NE Dispatch-Orlando regarding a possible orphaned calf in Oak Hill. The complainant, Mary Vueer (410-206-0484), was out on her boat when she came across a small manatee that was not moving, along the western shoreline of the Mosquito Lagoon near channel markers 68 and 69. When CNR called the complainant a few minutes later, she could no longer see the manatee. The complainant described typical surface resting behavior, but was concerned about its size. The complainant kept her distance, but she thought the manatee was symmetrical in the water. CNR requested that she take a photograph if she saw the manatee again. At 1325 hrs, FWC-biologist Ann C. Spellman (ACS) received a call on her cell phone from the Volusia County Marine Mammal Stranding Team (VCMMST)-Trey Hannah (TH) regarding a possible orphaned calf near channel marker 71. The information came in third party to the Marine Science Center from "Captain Bill." ACS contacted CNR at 1330 hrs to inform her of the manatee. CNR contacted Dispatch to request officer assistance. CNR was informed that FWC-Ofc. C. Goodreau could meet her and FWC-biologist Daniel A. Levine (DAL) at the Riverbreeze Boat Ramp. CNR and DAL met Ofc. Goodreau and started their search at 1415 hrs. The manatee was found at 1530 hrs in a canal off of Aerial Rd. frequented by manatees. Upon approaching the manatee, CNR realized that the manatee was small, but not an orphan. The lethargic manatee was floating asymmetrically and had a recent linear wound. CNR contacted ACS to inform her that the manatee needed to be rescued. DAL then contacted FWC Rescue Coordinator-Andy J. Garrett (AJG) to inform him of the manatee, and ACS contacted SeaWorld-Bob Wagoner (BW) to request assistance the following day.
07 January 2015	At approximately 0800 hrs, TH and VCMMST-Chad Truxall (CT) began searching the canal where the manatee was last seen. At approximately 0830 hrs, CNR, DAL, and ACS arrived on scene. DAL joined them on the boat to search other surrounding canals. Meanwhile, CNR and ACS searched some canals by land. At 0850 hrs, DAL contacted CNR to inform her they had located the manatee. ACS then contacted BW to inform him that the manatee was located and to send the rescue team and boat. CT had to leave, but switched places with VCMMST-Amber Stevenson (AS) via land. SeaWorld arrived at the Riverbreeze Boat Ramp around 1115 hrs, where CNR and ACS joined them on the rescue boat. The manatee was in a narrow canal with boat docks on each side, but was resting near the east end. The rescue boat was positioned in a small opening next to pilings. The VCMMST boat was sent further east in order to encourage the manatee towards the net. The net was set from shore to shore and slowly maneuvered both manually and with assistance from the boat. The manatee was captured on the first set. After loading the manatee into the transport truck, CNR contacted AJG at 1415 hrs to inform him that the rescue was successful. ECFL staff transported the manatee to SeaWorld for rehabilitation.

PARTICIPANTS

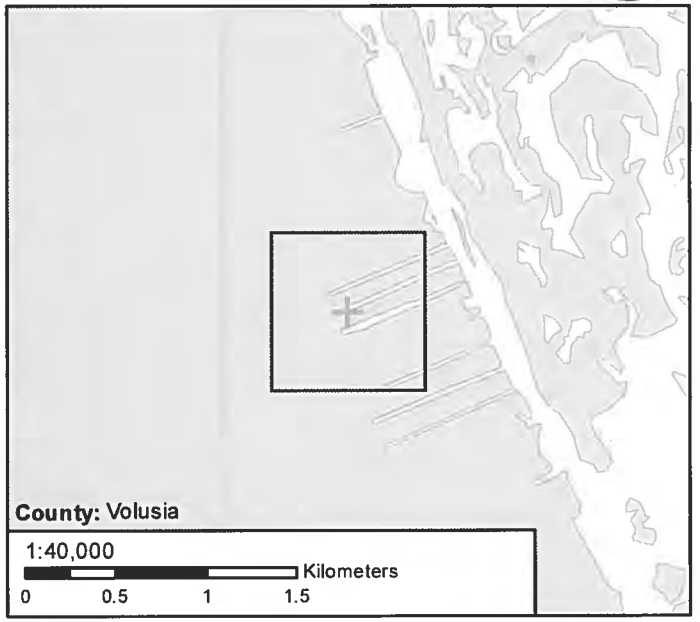
FWC EC: C. Rush, A. Spellman, D. Levine
VCMMST: T. Hannah, C. Truxall, A. Stevenson
SeaWorld Animal Care Staff

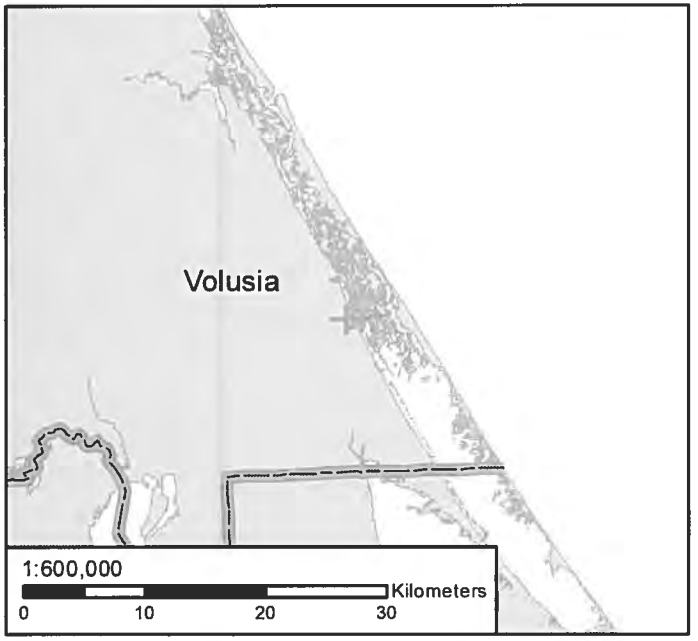
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1501

Rescue Date: 1/7/2015 **Facility ID:** SWFTm1502b Map Created 4/21/2016





Locality Description:
behind 110 Charles Street, east of the dock

Latitude: 28.90464°N **Longitude:** -80.86251°W

Kevc/Kel 5/6/15 Watercraft

Szemer, Donna

From: Garrett, Andy
Sent: Wednesday, January 07, 2015 2:13 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: rescue update

Oakhill:

Yesterday, the FWC-ECFL verified a report of an approximately 6-7 ft buoyant manatee with a fresh linear watercraft wound.

Today a Sea World and ECFL rescue team capture the manatee and transported it to Sea World.

-Andy

REC1501 / SWFTM1502B
Via Ann: Oak Hill
Male
206 cm
440 lbs.
Watercraft (left side pneumothorax)

SeaWorld Orlando Rescues Injured Manatee

By SeaWorld Orlando // January 9, 2015

ORLANDO, FLORIDA – Earlier this week, the SeaWorld Orlando Animal Rescue Team rescued an injured male manatee from the Indian River Intracoastal Waterway in Oak Hill, Florida.

The SeaWorld team worked alongside members of the Florida Fish and Wildlife Conservation Commission (FWC) to successfully rescue the manatee and transport it to SeaWorld.

The 445-pound, nearly 7-foot manatee was recently struck by a boat, and as a result, developed pneumothorax, commonly known as a collapsed lung, restricting its ability to swim and surface for air.

Immediately upon arrival the manatee underwent a complete health exam and was given fluids to aid with dehydration and antibiotics to treat possible infection. The manatee was outfitted with a specially designed wetsuit that the Animal Care Team created to assist buoyancy concerns.

Over the next couple of days and months, the SeaWorld Orlando Animal Rescue Team will closely monitor the manatee's progress, providing round-the-clock care. The goal, as with every rescue, is to return the manatee back to his natural environment once he's strong enough to survive on his own. Already in 2015, SeaWorld Orlando has rescued two manatees.

Earlier this week, the SeaWorld Orlando Animal Rescue Team rescued an injured male manatee from the Indian River Intracoastal Waterway in Oak Hill, Florida. (Image for SpaceCoastDaily.com)

In collaboration with the government and other members of stranding networks, SeaWorld Parks & Entertainment operates one of the world's most respected programs to rescue ill and injured marine animals, with the goal to rehabilitate and return.

SeaWorld animal experts have helped more than 24,000 animals in need – ill, injured, orphaned and abandoned – for more than five decades.

As part of the Manatee Rescue & Rehabilitation Partnership (MRP), SeaWorld Orlando is an acute care rehabilitation facility that provides life-saving medical care to rescued manatees.

http://spacecoastdaily.com/2015/01/video-seaworld-orlando-rescues-injured-manatee/

Corrected 5/8/15

Manatee Information (MLog:**1619**)

Animal ID:**SWFTm1502B** Sex:**M** Name: Rearing:**Wild reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 03/04/2015 **Tag ID** 00075A0548

Tag ID 00075A0548

Information: Pit tagged in left shoulder area with #00075A0548 for future release.

Event: Rescue **Event Date** 01/18/2015

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 04/07/2015

Updated By: D **Updated Date:** 04/07/2015

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 03/04/2015 **Tag ID** 00075A3888

Tag ID 00075A3888

Information: Pit tagged in right shoulder area with #00075A3888 for future release.

Event: Rescue **Event Date** 01/18/2015

-- Report Information ----------

Created By: Bob Wagoner **Created Date:** 04/07/2015

Updated By: D **Updated Date:** 04/07/2015

Entered
Captive
&
PIT
5/8/15
DJS

SeaWorld returns manatee to Titusville waters

SWFTM1502B
REC1501

FLORIDA TODAY *7:45 a.m. EDT May 7, 2015*

SeaWorld Orlando returns previously injured manatee to Titusville on Wednesday, May 6, 2015. They also delivered sea turtles to parts of Florida's coast, including Brevard. (Photo: SeaWorld Orlando)

SeaWorld Orlando returned a previously injured manatee to Kennedy Point Park in Titusville on Wednesday.

The sub-adult manatee was rescued with help from the Florida Fish and Wildlife Conservation Commission on Jan. 7 after it was injured by a watercraft near Oak Hill on the Indian River.

The manatee had been found suffering from pneumothorax, a collapsed lung and other buoyancy issues but was able to recover with antibiotics and nutritional assistance.

Through the recovery process, the manatee gained weight. When it was found, it weighed 445 pounds but now weighs 514 pounds.

The team also returned four green sea turtles to beaches along the east coast of Florida, including Sebastian Inlet State Park.

SeaWorld Orlando says it has returned 27 manatees and 60 sea turtles to their natural environment this year.

http://www.floridatoday.com/story/news/2015/05/06/seaworld-returns-injured-manatee-to-titusville-park/70915512/

MyFoxOrlando.com

SeaWorld Orlando Returns Five Endangered Animals Following Rehabilitation

SeaWorld Orlando returns 5 endangered animals to wild

Posted: May 07, 2015 1:04 PM EDT
Updated: May 07, 2015 1:05 PM EDT

The SeaWorld Orlando Animal Rescue Team returned a male manatee to Kennedy Point Park in Titusville and four green sea turtles to Florida's east coast beaches following a successful rehabilitation at SeaWorld Orlando Wednesday.

Officials say the manatee, at the time weighing 445 pounds, was rescued Jan. 7, 2015, with the help of the Florida Fish and Wildlife Conservation Commission.

The sub-adult male suffered from a watercraft injury near Oak Hill on the Indian River just north of Titusville.

The injured manatee was taken into veterinary care suffering from a pneumothorax, a collapsing of the lung, and related buoyancy issues. Through the use of antibiotics and nutritional assistance the now healthy 514-pound manatee was able to be returned.

The Orlando Rescue team also returned four Green sea turtles to various east coast beaches today including Sebastian Inlet State Park and MacArthur Beach State Park. SeaWorld works with the FWC to determine the best location for these endangered turtles to be returned. These turtles were rescued earlier this year for various reasons including fishing line entanglements, emaciation and wounds. Sea turtles in SeaWorld's care are monitored closely by both park zoological staff and veterinary staff. After a positive trend in health, the turtles are evaluated with the goal to return them back to the ocean. Through the use of blood chemistry analysis and a bacteriological culture, a decision can be made on whether the animal is ready to be returned or if continued rehabilitation is needed.

So far this year, SeaWorld Orlando has returned 27 manatees and 60 sea turtles to their natural environment. This is part of SeaWorld's continuous efforts to help conserve wildlife and do its part in supporting these endangered species.

If you see an injured marine animal, you can help by calling the FWC hotline at 1-888-404-3922 or by dialing *FWC on a cellular device.

To learn more about SeaWorld's commitment to animals and the environment, visit SeaWorldCares.com.

http://www.myfoxorlando.com/story/29005538/seaworld-orlando-returns-5-endangered-animals-to-wild

Resc
1/16/15

Rescue Report REC1502

Natural
Cold Stress
(w/mother)

GENERAL

Date of Rescue: 18 January 2015 Date of Initial Call: 17 January 2015 Filed by: A. Spellman/C. Rush

Rescue ID: REC1502 Facility ID: SWFTm1503b Other ID: NA

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 140 cm Estimated: No Weight: 78 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.16442° N Longitude (Decimal Degrees): -80.60304° W

Locality Description: approximately 25 m E of the residence at 603 Desoto Ln

Method of Capture: Hoop net

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☒ Cold Stress (with mother)	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
17 January 2015	FWC-biologist Christine N. Rush (CNR) responded to a text from FWC NE Dispatch-Orlando regarding a small manatee in distress in Satellite Beach, Brevard County. FWC case number 0598 was assigned. The complainant, Mike (321-537-6559), described a calf with several cold stress lesions that had trouble swimming and was missing a large portion of its tail. Based on the description, CNR believed it to be the same manatee ECFL staff had been monitoring for the past week during daily visits to the Desoto Canal; however, CNR had never seen the tail. By 1330 hrs, CNR arrived on scene. The calf appeared to have a mother, but nursing was never observed, and the calf was

	sucking on mud. CNR contacted FWC-biologist Ann C. Spellman (ACS) to discuss the calf's behavior and appearance. ACS agreed with CNR that a calf would not be sucking on the mud if it were getting proper nutrition from its mother and warranted close observation. ACS reviewed photos CNR forwarded and agreed to check on the calf in the morning.
18 January 2015	ACS arrived at the site at 0815 hrs. The calf was easily identified because it was sitting alone, adjacent to the second storm water pipe. ACS watched the calf for 45 minutes before seeing the female CNR believed to be its mother approach. At that time, the suspected mother made its way over to the calf, barely touched noses, then turned and went back to its original resting place. ACS continued to monitor the calf and witnessed it sucking on the muddy bottom. ACS continued to watch the calf and again witnessed the same adult approach within one meter of the calf then turn around again. ACS contacted CNR to discuss the observations. After monitoring the calf for another hour and seeing no nursing behavior and a lack of gas production from the calf, ACS suspected that the calf was too weak to nurse. ACS contacted FWC Rescue Coordinator-Andy Garrett to advise him of the situation and the need to rescue the calf. AJG agreed and ACS contacted SeaWorld (SWF)-Bob Wagoner to ask if they could accept the calf. SWF agreed to take it. ACS then called CNR and FWC-biologist Daniel A. Levine (DAL) for assistance. Trained volunteers were also called to assist. While CNR and DAL went to the lab to get the rescue gear, inflate the transport pool and pick up some of the volunteers, ACS continued to monitor the calf's behavior and put together a rescue plan. Once all of the rescue team was assembled, the small capture net was deployed across the end of the canal effectively separating the calf from the others. While volunteer staff monitored the net, CNR and DAL quickly netted the calf in the hoop net. It was brought to shore and placed on a blanket in the stretcher. The calf was then loaded into the truck and transported to SeaWorld in a shallow pool.

PARTICIPANTS

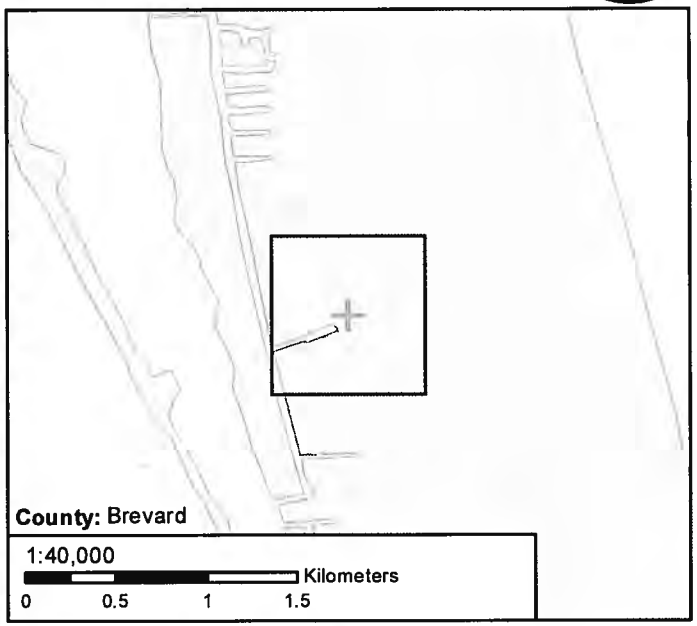
FWC EC: A. Spellman, C. Rush, D. Levine
FWC Volunteers: L. Cross, P. Caudill. A. McLemore, J. Curran, A. Palmer

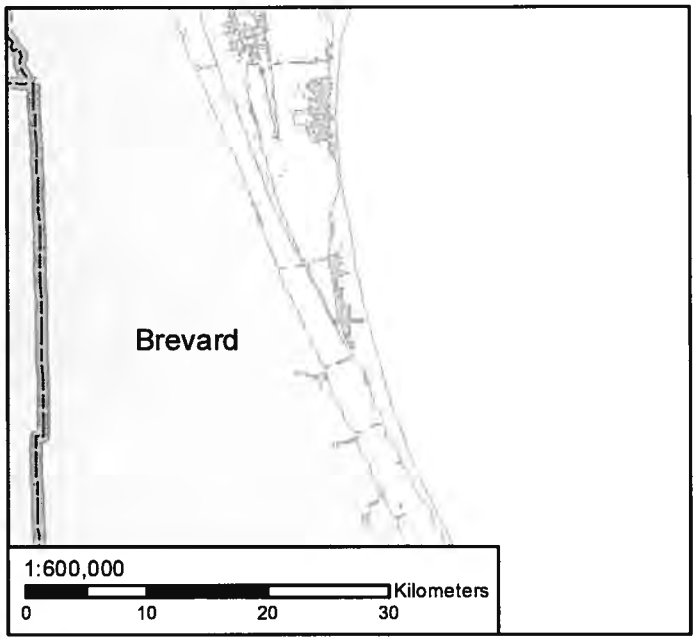
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1502

Rescue Date: 1/18/2015 **Facility ID:** SWFTm1503b Map Created 4/21/2016





Locality Description:
approximately 25 m E of the residence at 603 Desoto Ln

Latitude: 28.16442°N **Longitude:** -80.60304°W

Resc

Szemer, Donna

From: Garrett, Andy
Sent: Tuesday, January 20, 2015 8:51 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: Rescue Update/Alert
Attachments: IMG_7473.jpg; MML006_101-3247.jpg

Orange River:

The FWC-SWFL received a report of a crab trap entangled manatee in the Orange River at the end of last week (photo attached). The manatee has been reported this morning outside of Manatee Park. A rescue team is being organized. If captured, the manatee will be taken to Lowry Park Zoo.

Desoto Canal:

REC1502 SWFTM15038

On Saturday, the FWC-ECFL received a report of a manatee calf that was in distress in the Desoto Canal. ECFL staff responded and observed a small calf that appeared to have a loose association with an adult manatee in the canal. The calf was observed with its face in the mud and appeared underweight with a fresh tail mutilation from an unknown cause (photo attached). On Sunday, ECFL staff decided to capture the calf and take it to Sea World. The adult that was loosely associated with the calf left the canal immediately after rescuer entered the water with a net. The calf was captured and transported to Sea World.

Resc
Cold Stress (w/ Mom)

Szemer, Donna

SWFTM1503B
REC 1502

From: Rush, Christine
Sent: Tuesday, January 27, 2015 9:02 AM
To: Szemer, Donna
Subject: RE: 2015 Rescues

Cold stress as primary because the mom was still around, just kind of gave up on the calf. The animal was very weak.

-----Original Message-----
From: Szemer, Donna
Sent: Monday, January 26, 2015 8:37 AM
To: Rush, Christine
Subject: RE: 2015 Rescues

Thanks for the info.

Was it determined to be with his mother or do you think it was an orphan?

Orphan would supercede Cold stress (which would be secondary). If it was thought to be with its mother, it would be Natural, Cold stress as primary.

What are your thoughts?

D.

-----Original Message-----
From: Rush, Christine
Sent: Saturday, January 24, 2015 7:02 PM
To: Szemer, Donna
Cc: Spellman, Ann
Subject: RE: 2015 Rescues

REC1502/SWFTm1503b
Male cold stress
County Brevard
City Satellite Beach
Waterway DeSoto Ditch
Weight 174 lbs
Length 145cm est since some tail was missing _____
From: Szemer, Donna
Sent: Tuesday, January 20, 2015 12:39 PM
To: Allen, Aarin; Boyd, Denise; Connor, Lauren; Dimartino, Nathan; Gordon, Nadia; Howell, Amber; Levine, Daniel; Perna, Allison; Ruben, Cheyanne; Rush, Christine; Spellman, Ann; Therriault, Kati; Bassett, Brandon; deWit, Martine; Garrett, Andy; Lonati, Gina; Panike, Anna; Rigney, Kane; Vorbach, Bryan; White, Chuck
Subject: 2015 Rescues

Hi, all-

Please check to be sure I have all the manatee rescues from your area for 2015.

The last ID's I have are:

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: SWFTm1503B / REC 1502 Capture ID: _____ Data Recorder: BILL GREER

Name: 'BAM BAM' Date: 07 MAR 2013

ID of its Calf / Mom: _____ Sex: (M) / F

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: 389 BERKELEY STREET
Latitude: 28.200 3472 N
Longitude: -080 605 3389 W
Water Temp: 22.9 C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: 1135

EVENT: ____Capture ____Rescue ____Pre-release Assess. _X_Release ___Post-release Assess.

Workup Site: Air Temp = 27.0 (C) F Wind: 6.1 mph NW Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 331 kg	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	254	
	Total Length (straight)	244	
	Snout to Peduncle	174	
	Snout to Anus	158	
	Snout to Umbilicus	100	
Girths	Girth at Peduncle: (actual) or ½	Ultrasound Loc: 105 cm	Belt Loc: in
	Girth at Anus: (actual) or ½	151	
	Girth at Umbilicus: (actual) or ½	191	
	Girth at Axilla: (actual) or ½	158	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	WILLIAM D GREER
	Clinical Assessment Data Sheet?	Y / (N)

REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating?	Y / (N)

MONITORING	Heartrate: ~~Stethoscope~~ EKG Doppler None	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? (Y) N	Y (N)

FREEZE BRAND	Letters/Numbers applied:	Applied by:
	~~Location(s):~~	

Form Revised: 10 November 2016

Manatee ID: SWFTm15038 / REC1502 Capture ID _____ Date: 07 MAR 2018

BLOOD	Collect Blood? Y / N	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	
SAMPLES Milk?	Y / N volume: ____ ml	Refrig / Freeze		
Urine?	Y / N	Refrig / Freeze / EtOH		
Fecal?	Y / N	Freeze / EtOH		
Skin Scraping?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / N Location: _____	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / N Location: _____	Freeze / / DMSO		
Mucosal Swab?	Y / N Oral / Rectal	Refrig		
Other?	Y / N Tear Film / _____	Freeze / _____		
PIT TAG	Scanned for previous PIT tag?	(Y) / N PIT tagged at this capture? (Y) / N		
	PIT tagged by:	SWF - JON PETERSON		
	Right #	00-079A-6A9		
	Left #	00-079B-1A10		
TELEMETRY	Tag Type	(Argos-GPS) / PTT / VHF		
TAG	Tag ID#	9102		
	Tag / Antenna Color(s)	Tag: BLUE/YELLOW Antenna: GREEN/YELLOW		
	VHF Frequency	164.366 MHz		
	Tag Sonic ID: FWC_____	Freq: kHz Code: PI: msec		
BELT	ID# / Size / Color	FWC_____ Length: 37 in. Color: ORANGE		
	Belt Sonic ID: FWC_____	Freq: 457 kHz Code: 77 PI: 910 msec		
	Belt Knot / Webbing Exposed	(Left) / Right 3 inches		
	CR2a Programmed Release	Y / (N) Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number	10924442		
	Logger Location	TETHER		
TETHER	Strength / Joiner / Length	Strength: 47 hs / tcc Length: 4 ft.		
	Tagged by:	SEAT - SHORLIE - MELODY FISCHER		
PHOTOGRAPHS	Taken by:	DANIELLE E. CARTER		
	Exposures:	FNL025_2018-03-07_9217-9236 AND 9259-9263		
SKETCHES	Sketched by:	WILLIAM D. GREER		

Entered PIT + Captive 3/8/18

COMMENTS

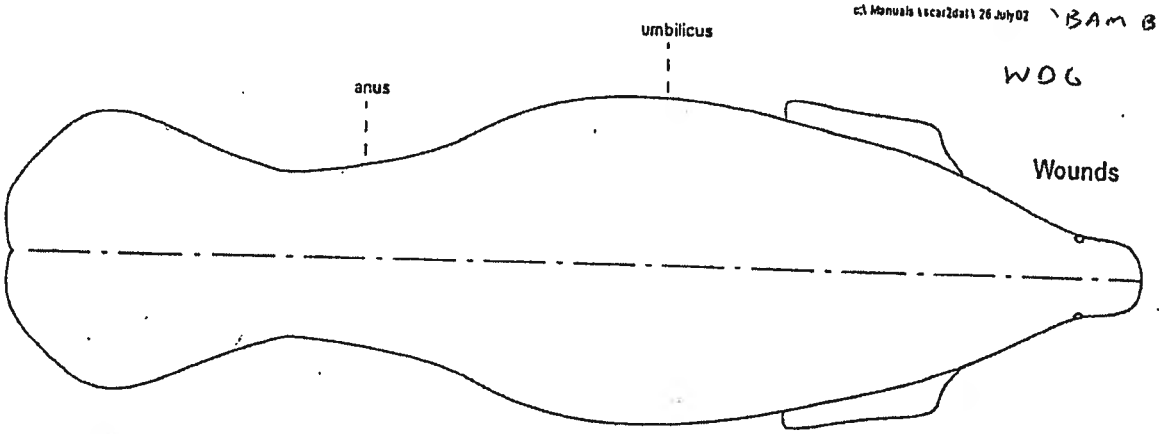
ORIGINAL PIT TAGS WERE NOT READING SO NEW PIT TAGS APPLIED JUST PRIOR TO RELEASE

ENVIRONMENTAL DATA NOT COLLECTED UNTIL 1530

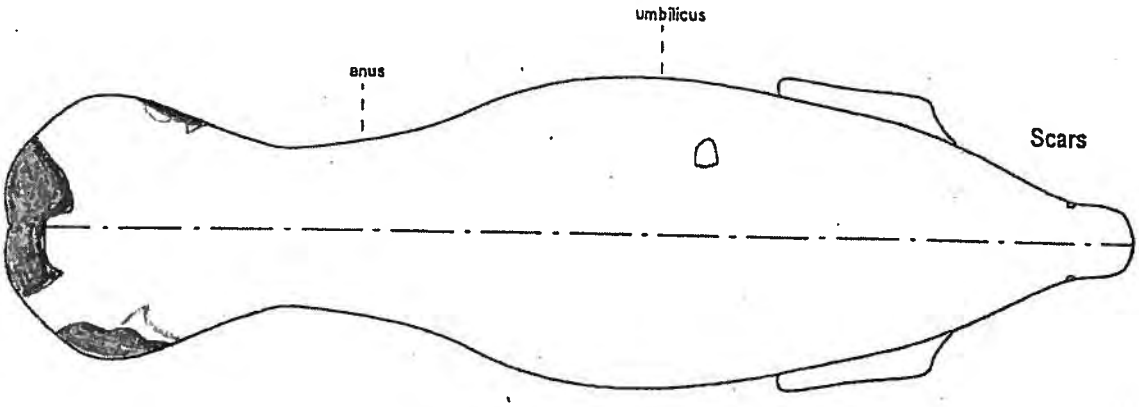
Date 07 MAR 2018 Field I.D. SWF1503B/RRC1502

c:\ Manuals \ scar2dat \ 26 July 02 'BAM BAM'

WOG

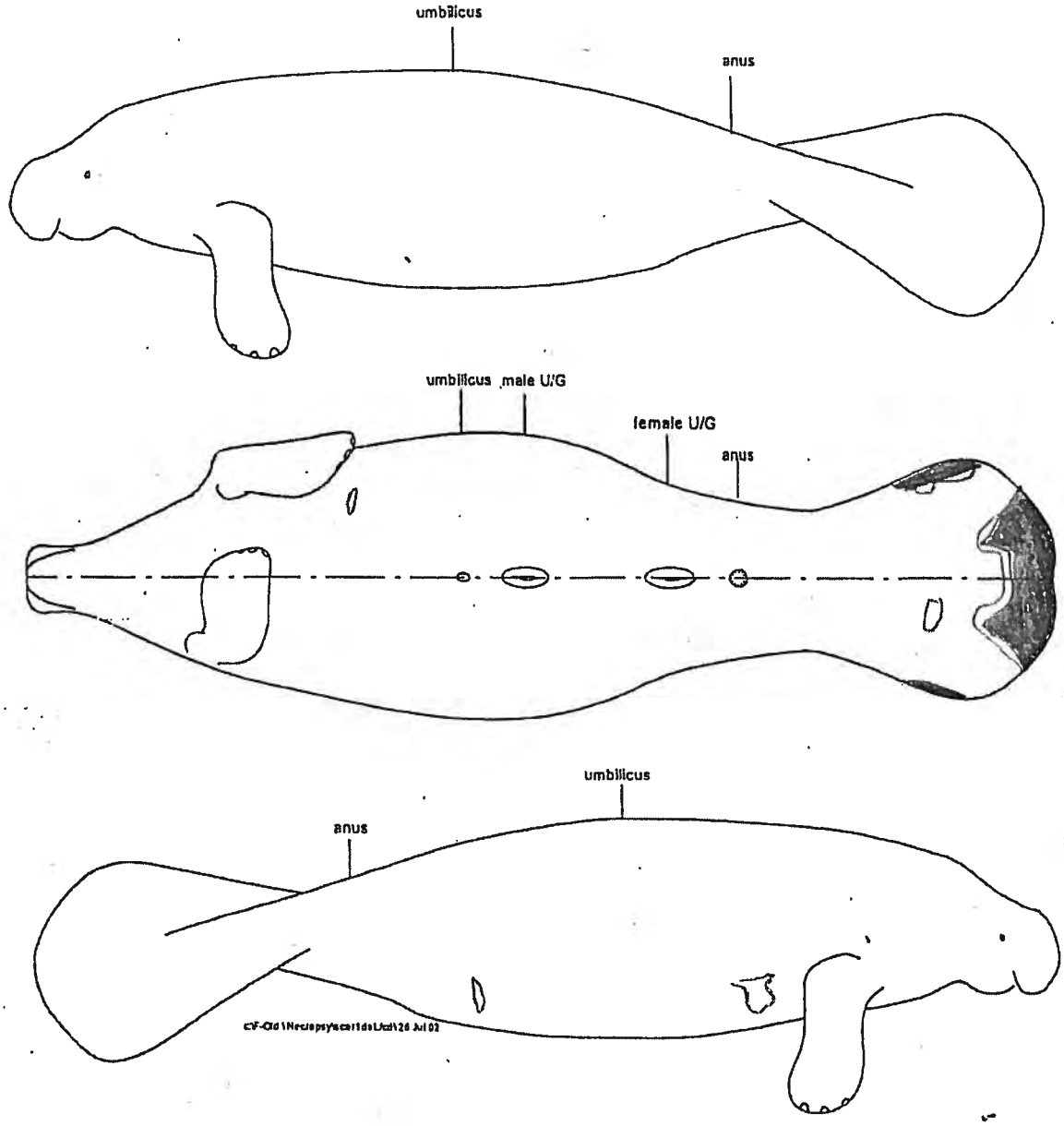


Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				



FIELD I.D. SWFTm150318/RëC1502

'BAM BAM'



Resc / Rel
2/4/15 3/19/15

Rescue Report

REC1504

Natural (Competition for Nursing)

GENERAL

Date of Rescue: 04 February 2015 Date of Initial Call: 24 January 2015 Filed by: A. Spellman

Rescue ID: REC1504 Facility ID: LPZ103229 Other ID: "Naui"

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 145 cm Estimated: No Weight: 58 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Orange City County: Volusia Waterway: St Johns River

Latitude (Decimal Degrees): 28.94469° N Longitude (Decimal Degrees): -81.33937° W

Locality Description: Blue Spring, 23 m SW of swim dock along E shore

Method of Capture: Net set from stationary boat

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Malnourished

All Other

Describe: Calf was failing to thrive

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☒	☒
Actual Rescue	☒	☒
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
24 January 2015	At 1030 hrs, while attending the Blue Spring Manatee Festival, Save The Manatee Club staff member Cora Bercham (CB) notified ACS that an orphaned calf that was being monitored was in the spring run. ACS asked FWC-biologists Christine N. Rush (CNR) and Daniel A. Levine (DAL) to re-assess its condition. CNR took photos, and reported her findings to ACS. ACS and Sea2Shore (S2S) biologist-Monica Ross (MR), likewise, took the opportunity

	to assess the calf while at the park. ACS and MR felt that the calf looked surprisingly underweight and worse than when it was observed earlier in the week. CB viewed the photos CNR took and advised her that the manatee calf in the photos was not the orphan calf being monitored, but the calf of a known individual, "Annie," who was in attendance with her calf. MR felt that the calf was in need of immediate rescue. ACS contacted FWC Manatee Rescue Coordinator Andrew J. Garrett (AJG) to discuss the situation, concerned that despite a strong bond with its mother the calf was failing to thrive. ACS requested that AJG include members of the MRP working group in any decision on whether to rescue the calf or to let nature take its course. During the following days, FWC staff gathered information on the pair consulting with former Blue Springs Park Ranger Wayne Hartley (WH), CB, and park staff about the pair's history, the calf's physical appearance when first documented in the run earlier in the season, "Annie's" attention and bond strength with the calf, and her previous history of bonding with her first calf in 2012. CB, who had been photo-documenting the pair since they arrived at the beginning of the season, provided numerous photos showing the gradual decline of the calf that earlier in the season had arrived robust and healthy. "Annie "was documented through video and observation as being a good mother, tending to her calf and exhibiting a very strong mother-calf bond. Daily observation of the pair by FWC, STMC, and S2S staff determined that up to three sub-adults also were in constant association with "Annie" and were actively nursing on her, in direct competition with her dependent calf. As a result, the calf, despite attempting to nurse, was starving. Additional input was sought from STMC's Pat Rose (PR) who was working on the STMC's online "Manatee-cam" in the park at the time and other experienced manatee biologists. PR and WH suggested that both mother and calf be rescued together. ACS presented this suggestion to AJG who took it to the MRP. The idea was approved with Lowry Park Zoo agreeing to take both manatees for care if caught.
03 February 2015	ACS coordinated a rescue using a combined FWC, Sea World, S2S and STMC team.
04 February 2015	Rescue operations began at approximately 1000 hrs at Blue Spring State Park. Working from the shore using the FWC rescue boat as a platform, with observers on shore and a biologist in the water, multiple attempts were made by swimmer MR to separate the target mother-calf pair from the accompanying sub-adults and to guide the manatees to an area just south of the swim dock where the rescue crew was waiting with a hoop net. After numerous attempts to hoop net the evasive calf, a capture net was deployed in an half-circle configuration and the pair was gradually guided into the capture area by MR, S2S biologist-Zack Johnson, CB and two SWF staff members. The net was pulled into the boat with a rope, successfully encircling and catching not only the targeted pair but an incidental sub-adult, REC1503, as well. The sub-adult

	was extracted from the net and released. Both mother, REC1505, and calf, REC1504, were successfully brought on board the boat, the calf first, then "Annie". At that time, "Annie's" ventral side was observed and she appeared physically very thin. Both manatees were transferred to the FWC transport truck and taken to LPZ for care.

PARTICIPANTS:

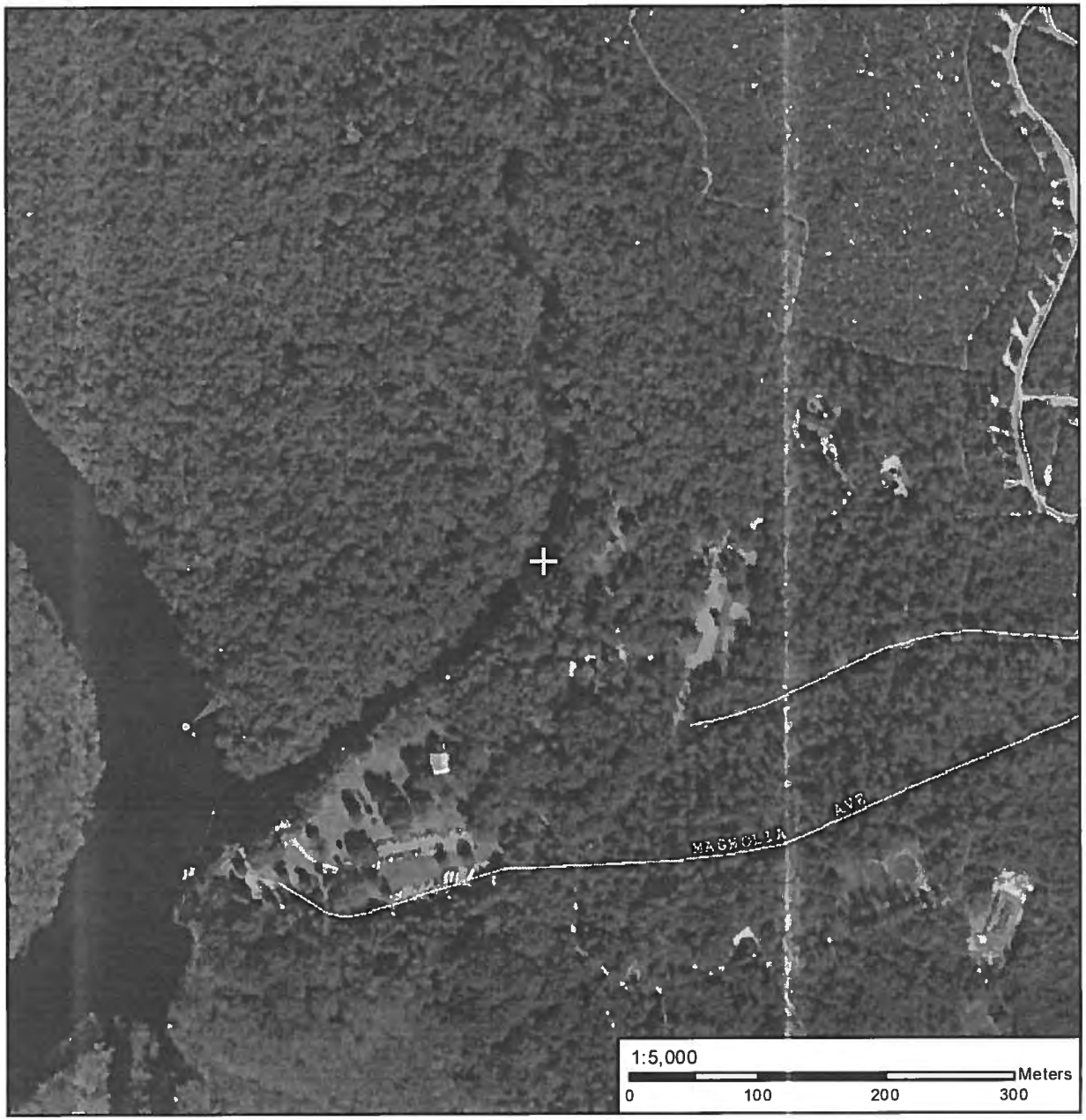
FWC EC: A. Spellman, C. Rush, D. Levine
FWC Volunteer: L. Cross, D. Carter
FWC MMPL: A. Garrett, B. Bassett, B. Vorbach
Sea to Shore: M. Ross, Z. Johnson
STMC: W. Hartley, C. Bercham
SeaWorld Florida Animal Care Staff

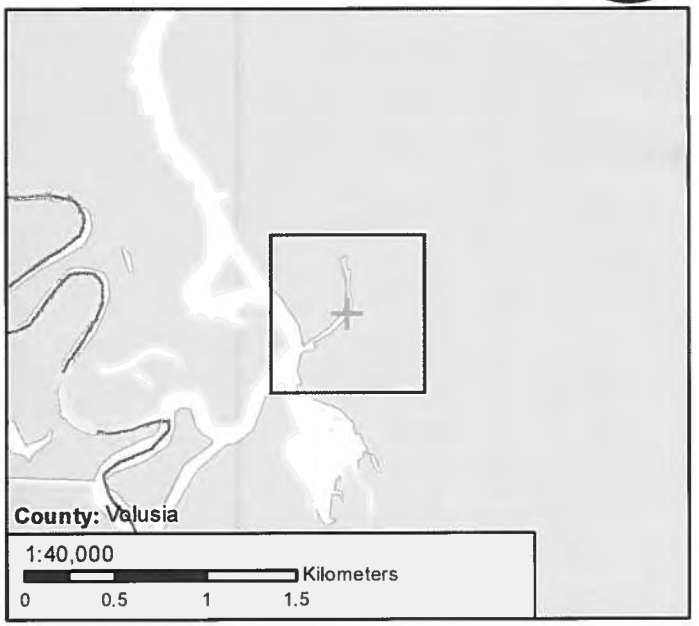
Edited by:
TRR
DJS
AJG

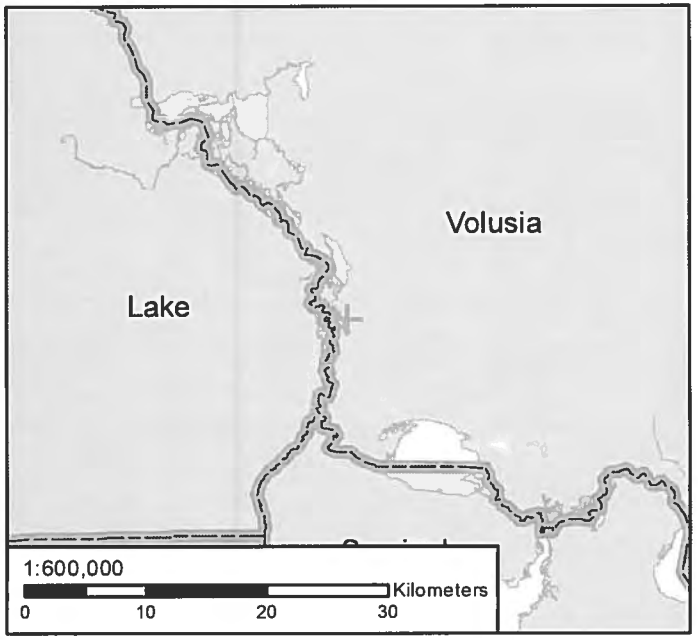
(02/20/2013)

Verified Response Location of Manatee Rescue REC1504

Rescue Date: 2/4/2015 **Facility ID:** LPZ103229 Map Created 4/21/2016







Locality Description:
Blue Spring, 23 m SW of swim dock along E shore

Latitude: 28.94469°N **Longitude:** -81.33937°W

Rose / Rel 3/19/15

Szemer, Donna

From: Spellman, Ann
Sent: Thursday, February 05, 2015 12:08 PM
To: Szemer, Donna
Cc: Rush, Christine; Levine, Daniel
Subject: Preliminary specs for REC1503 through 05

Natural Conf. for Hearing

"Jane"

I am waiting on Virginia for lengths and weights but here are the other stats.

ALL:

Situation first noticed: 24 January 2015
Rescue: 04 February 2015
Location: Volusia County, Orange City, Blue Spring at southeast boundary of designated swim area
Net set from stationary boat used as platform
Receiving facility: LPZ
COR: REC1504 Calf: failing to thrive despite attentive mother, competition from other non-related subadults
REC1505 "Annie": mother of calf, taken to allow for both animals to recover and quick turnaround- turns out Annie was not thriving either: malnourished
REC1503 Subadult: incidental, unknown sex , ~ 8 ft long- released on site

If you need anything else pleas =e let me know –Thx.

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Garrett, Andy
Sent: Thursday, February 05, 2015 9:24 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: RE: rescue update

"Annie" - SWFTM0518B / REC0614 / LPZ1033228 / REC1505

One edit, the calf was born in Blue Springs in July 2014, not November.

Calf - LPZ1033229 / REC1504 "Nani"

From: Garrett, Andy
Sent: Thursday, February 05, 2015 8:44 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue update

Blue Springs:

As you may or may not be aware, over the past few weeks, biologists and park staff have been concerned about the calf of "Annie" (previous MRP animal). The calf was born to Annie in November 2014 in the spring run with initial observations confirming no issues . Since mid-January, biologists and park staff have observed several juvenile and small adult manatees nursing off Annie, which they felt drastically limited the calf's access to nurse. They reported a drastic deterioration in body condition of the calf and they observed a lack of interest in nursing by the calf.

The MRP Rescue Rehab Committee discussed the situation on a conference call this past Tuesday and a recommendation was made to capture Annie and her calf. Yesterday, a rescue team was able to capture the pair and transport them to Lowry Park Zoo.

-Andy

Szemer, Donna

From: Garrett, Andy
Sent: Tuesday, February 24, 2015 10:24 AM
To: Panike, Anna; Rush, Christine; Levine, Daniel
Cc: Szemer, Donna
Subject: FW: New weight for Annie's calf

fyi

From: Virginia Edmonds [mailto:Virginia.Edmonds@LowryParkZoo.org]
Sent: Tuesday, February 24, 2015 9:50 AM
To: Garrett, Andy; Beck, Cathy
Cc: Walsh,Michael T; Patrick Rose; Beth Nolan; Bob Wagoner; Cathy Goonen; Conrad Litz; Craig Miller; Dave Murphy; Doug Walmolts; Jodi Tuzinski; Kimberlee Tennile; Leeann Rottman; Maya Rodriguez; Monica Ross; Robert Rose; Susan Butler; Susan Lowe; Mark Campbell; Spellman, Ann
Subject: New weight for Annie's calf

Hello,

Rescue date: 2/4/2015
Rescue weight was 128 # (58 kg)
2/21/2015 weight 151 # (69 kg)
She is eating solids and is observed nursing (up to three times during the day)

Thanks,
Virginia

From: Virginia Edmonds
Sent: Monday, February 09, 2015 5:47 PM
To: Garrett, Andy; Beck, Cathy
Cc: Walsh,Michael T; Patrick Rose; Beth Nolan; Bob Wagoner; Cathy Goonen; Conrad Litz; Craig Miller; Dave Murphy; Doug Walmolts; Jodi Tuzinski; Kimberlee Tennile; Leeann Rottman; Maya Rodriguez; Monica Ross; Robert Rose; Susan Butler; Susan Lowe; Mark Campbell; Spellman, Ann
Subject: Update on Annie and her calf

We observed nursing through the weekend.
By Sunday, Annie was restless in our medical pools, so we moved her to our large display pool with the calf. Annie's appetite picked up and we continue to observe the calf nursing 2-3 times a day for up to 3 minutes at a time.
They are both consuming hydrilla and romaine lettuce.
They are sticking together and the calf now sleeps next to Annie as opposed to on top of her.

From: Virginia Edmonds
Sent: Thursday, February 05, 2015 11:33 AM
To: Garrett, Andy; Beck, Cathy
Cc: Walsh,Michael T; Patrick Rose; Beth Nolan; Bob Wagoner; Cathy Goonen; Conrad Litz; Craig Miller; Dave Murphy; Doug Walmolts; Jodi Tuzinski; Kimberlee Tennile; Leeann Rottman; Maya Rodriguez; Monica Ross; Robert Rose; Susan Butler; Susan Lowe; Mark Campbell; Spellman, Ann
Subject: RE: R-R Committee call regarding Annie and calf set for tomorrow at 10 am

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LP2 103229 Temporary ID: _____ Time Net Set: _____

Name: NAOMI Date: 19 MARCH 2015 Time Captured(Onboard): _____

ID of its Calf/Mom: LP2 103228 Sex: M / (F) Time On Beach: _____

Location: LOWRY PARK ZOO Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue __X__Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: _____

Air Temp = ___ C F Water Temp = ___ C F Wind: ____ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 218 lbs	Manatee + stretcher 222 lbs	Stretcher weight 4 lbs
Lengths	Total Length (curvilinear) (cm)		
	Total Length (straight)		
	Snout to Peduncle		
	Snout to Anus		
	Snout to Umbilicus		
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½		
	Girth at Umbilicus: actual or ½		
	Girth at Axilla: actual or ½		

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 4 5 Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / N	Ribs visible? Y / N
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / N (describe in comments)
	Person(s) assessing condition:	

REPROD. STATUS	Pregnant? Y / N If so, describe:	
	Lactating?	Y / N

SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal None Y N
	Respiratory Rate? Y N Y N

Dorsal: 0.45 (Ultrasound)

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

LP2
Manatee ID: 103229 Temporary ID: _____ Time Net Set: _____
Name: NAui Date: March 9 2015 Time Captured(Onboard): _____
ID of its Calf / (Mom): 103228 Sex: M / (F) Time On Beach: _____
Location: _____ Latitude: _____ N Time Released: _____
Event: ____Capture ____Rescue ____Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: _____
Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 198	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	172 cm	
	Total Length (straight)	156 cm	
	Snout to Peduncle	128 cm	
	Snout to Anus	115 cm	
	Snout to Umbilicus	66 cm	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½	71 cm	
	Girth at Umbilicus: actual or ½	122 cm	
	Girth at Axilla: actual or ½	95 cm	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	1.43	/	~~0.43~~ / 0.50
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / N	Ribs visible? Y / N
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / N (describe in comments)
	Person(s) assessing condition:	AB
REPROD. STATUS	Pregnant? Y / N If so, describe:	
	Lactating?	Y / N
SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None	**Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID LPZ 103229 Manatee Name: Nani Date: March 9, 2015

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	(Y) / N
	PIT tagged by: AB			
	Right #	0 0 - 0 6 7 1 - A C 9 6		
	Left #	0 0 - 0 6 7 2 - 2 3 7 F		
FLAG	Color and Symbol			
TELEMETRY	TAG Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz Code:	PI: msec	
	BELT Number / Belt Color	FWC_____	Color:	
	Belt Sonic ID: FWC_____	Freq: kHz Code:	PI: msec	
	Belt Knot / Webbing Exposed	Left / Right	_____ inches	
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	dTag ID & VHF Frequency	ID #:	148._____ MHz	
	dTag Orientation Angles	dTag Pitch: _____°	dTag Roll: _____°	
	Reference Orientation Angles	Ground Pitch: _____°	Ground Roll: _____°	
	TETHER Strength / Length	Strength:	Length: ft.	
	Tether Sonic ID: FWC_____	Freq: kHz Code:	PI: msec	
	Tagged by:			
PHOTOGRAPHS	Taken by:			
	Exposures:			
SKETCHES	Sketched by:			

Comments

Rese/Rel
2/4/15 3/19/15

Rescue Report REC1505

Mother of Rese Calf

GENERAL

Date of Rescue: 04 February 2015 Date of Initial Call: 24 January 2015 Filed by: A. Spellman

Rescue ID: REC1505 Facility ID: LPZ103228 Other ID: REC0514 and SWFTm0518, "Annie"

FWC Case Number: NA FWC Region: Northeast

Sex: Female Length: 315 cm Estimated: No Weight: 587 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R:00-0683-1401 L: 00-0683-1A5C

State: FL City: Orange City County: Volusia Waterway: St Johns River

Latitude (Decimal Degrees): 28.94469° N Longitude (Decimal Degrees): -81.33937° W

Locality Description: Blue Spring, 23 m SW of swim dock along E shore

Method of Capture: Net set from stationary boat

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☒ Other: (Specify): Malnourished mother of malnourished calf	

All Other

Describe: Mother of malnourished calf (REC1504) who also appeared underweight

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☒	☒
Actual Rescue	☒	☒
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☒	☒
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
24 January 2015	At 1030 hrs, while attending the Blue Spring Manatee Festival, Save The Manatee Club staff member Cora Bercham (CB) notified ACS that an orphaned calf that was being monitored was in the spring run. ACS asked FWC-biologists Christine N. Rush (CNR) and Daniel A. Levine (DAL) to re-assess its condition. CNR took photos, and reported her findings to ACS. ACS and Sea2Shore (S2S) biologist-Monica Ross (MR), likewise, took the opportunity

	to assess the calf while at the park. ACS and MR felt that the calf looked surprisingly underweight and worse than when it was observed earlier in the week. CB viewed the photos CNR took and advised her that the manatee calf in the photos was not the orphan calf being monitored, but the calf of a known individual, "Annie," who was in attendance with her calf. MR felt that the calf was in need of immediate rescue. ACS contacted FWC Manatee Rescue Coordinator Andrew J. Garrett (AJG) to discuss the situation, concerned that despite a strong bond with its mother the calf was failing to thrive. ACS requested that AJG include members of the MRP working group in any decision on whether to rescue the calf or to let nature take its course. During the following days, FWC staff gathered information on the pair consulting with former Blue Springs Park Ranger Wayne Hartley (WH), CB, and park staff about the pair's history, the calf's physical appearance when first documented in the run earlier in the season, "Annie's" attention and bond strength with the calf, and her previous history of bonding with her first calf in 2012. CB, who had been photo-documenting the pair since they arrived at the beginning of the season, provided numerous photos showing the gradual decline of the calf that earlier in the season had arrived robust and healthy. "Annie "was documented through video and observation as being a good mother, tending to her calf and exhibiting a very strong mother-calf bond. Daily observation of the pair by FWC, STMC, and S2S staff determined that up to three sub-adults also were in constant association with "Annie" and were actively nursing on her, in direct competition with her dependent calf. As a result, the calf, despite attempting to nurse, was starving. Additional input was sought from STMC's Pat Rose (PR) who was working on the STMC's online "Manatee-cam" in the park at the time and other experienced manatee biologists. PR and WH suggested that both mother and calf be rescued together. ACS presented this suggestion to AJG who took it to the MRP. The idea was approved with Lowry Park Zoo agreeing to take both manatees for care if caught.
03 February 2015	ACS coordinated a rescue using a combined FWC, Sea World, S2S and STMC team.
04 February 2015	Rescue operations began at approximately 1000 hrs at Blue Spring State Park. Working from the shore using the FWC rescue boat as a platform, with observers on shore and a biologist in the water, multiple attempts were made by swimmer MR to separate the target mother-calf pair from the accompanying sub-adults and to guide the manatees to an area just south of the swim dock where the rescue crew was waiting with a hoop net. After numerous attempts to hoop net the evasive calf, a capture net was deployed in an half-circle configuration and the pair was gradually guided into the capture area by MR, S2S biologist-Zack Johnson, CB and two SWF staff members. The net was pulled into the boat with a rope, successfully encircling and catching not only the targeted pair but an incidental sub-adult as well. The sub-adult was

	extracted from the net and released. Both mother, REC1505, and calf, REC1504, were successfully brought on board the boat, the calf first, then "Annie." At that time, "Annie's" ventral side was observed and she appeared physically very thin. Both manatees were transferred to the FWC transport truck and taken to LPZ for care.

PARTICIPANTS:

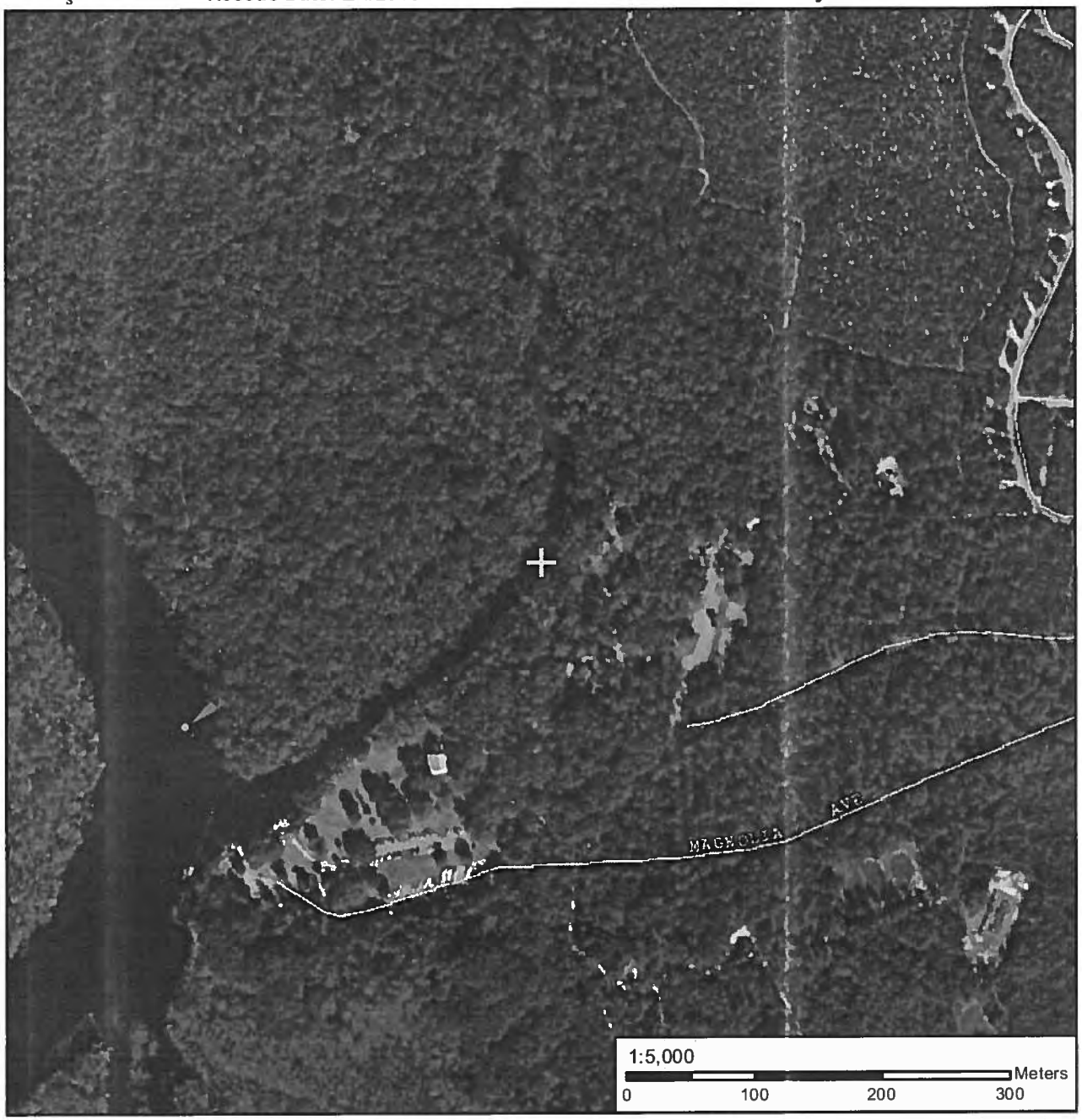
FWC EC: A. Spellman, C. Rush, D. Levine
FWC Volunteer: L. Cross
FWC MMPL: A. Garrett, B. Bassett, B. Vorbach
Sea to Shore: M. Ross, Z. Johnson
STMC: W. Hartley, C. Bercham
SeaWorld Florida Animal Care Staff

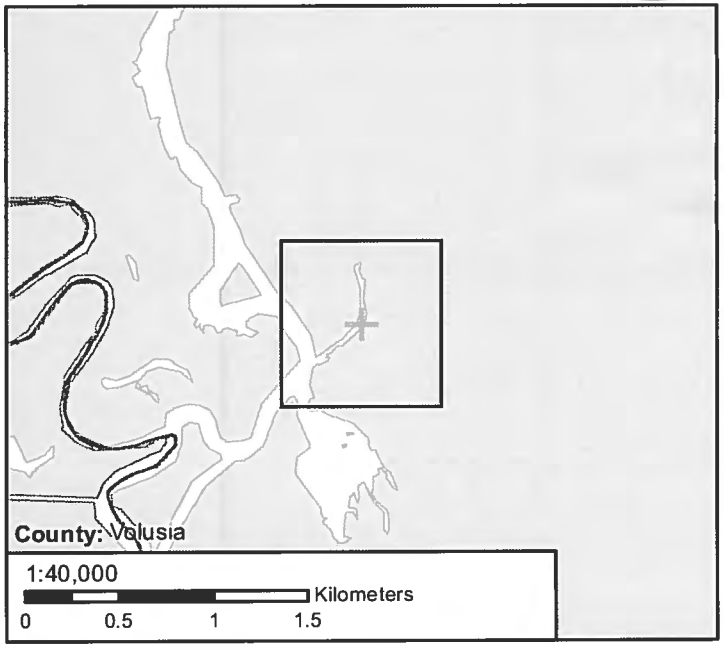
Edited by:
TRR
DJS
AJG

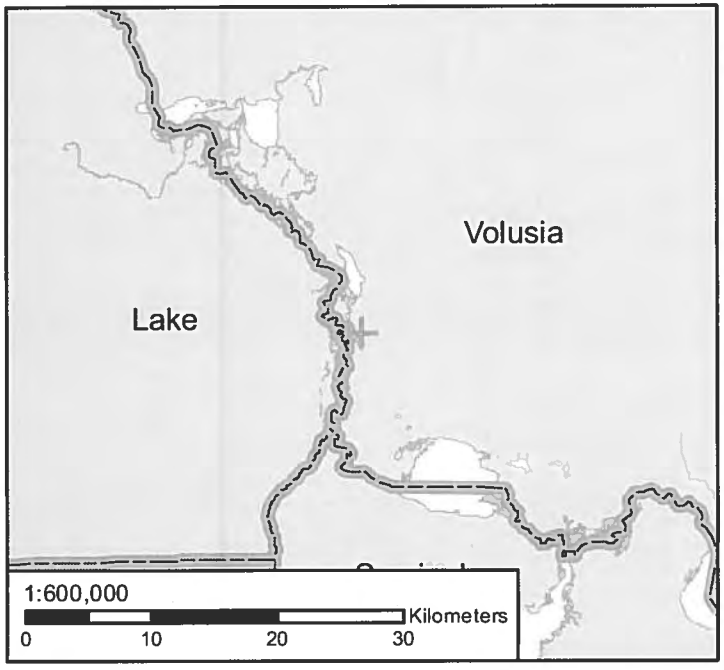
(02/20/2013)

Verified Response Location of Manatee Rescue REC1505

Rescue Date: 2/4/2015 **Facility ID:** LPZ103228 Map Created 4/21/2016







Locality Description:
Blue Spring, 23 m SW of swim dock along E shore

Latitude: 28.94469°N **Longitude:** -81.33937°W

Rosa / Rel 3/19/15

Szemer, Donna

From: Spellman, Ann
Sent: Thursday, February 05, 2015 12:08 PM
To: Szemer, Donna
Cc: Rush, Christine; Levine, Daniel
Subject: Preliminary specs for REC1503 through 05

Mother of Rosa Calf.

I am waiting on Virginia for lengths and weights but here are the other stats.

ALL:

Situation first noticed: 24 January 2015
Rescue: 04 February 2015
Location: Volusia County, Orange City, Blue Spring at southeast boundary of designated swim area
Net set from stationary boat used as platform
Receiving facility: LPZ
COR: REC1504 Calf: failing to thrive despite attentive mother, competition from other non-related subadults
REC1505 "Annie": mother of calf, taken to allow for both animals to recover and quick turnaround- turns out Annie was not thriving either: malnourished
REC1503 Subadult: incidental, unknown sex , ~ 8 ft long- released on site

If you need anything else pleas =e let me know –Thx.

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Garrett, Andy
Sent: Thursday, February 05, 2015 9:24 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nick Kapustin; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: RE: rescue update

"Annie" - SWFTM05188 / REC0614 / LPZ1033227 / REC1505

One edit, the calf was born in Blue Springs in July 2014, not November.

Calf - LPZ1033229 / REC1504 "Nani"

From: Garrett, Andy
Sent: Thursday, February 05, 2015 8:44 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; 'Gretchen Lovewell'; Honaker, Allison; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nick Kapustin'; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Segelson, Carli; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie
Subject: rescue update

Blue Springs:

As you may or may not be aware, over the past few weeks, biologists and park staff have been concerned about the calf of "Annie" (previous MRP animal). The calf was born to Annie in November 2014 in the spring run with initial observations confirming no issues . Since mid-January, biologists and park staff have observed several juvenile and small adult manatees nursing off Annie, which they felt drastically limited the calf's access to nurse. They reported a drastic deterioration in body condition of the calf and they observed a lack of interest in nursing by the calf.

The MRP Rescue Rehab Committee discussed the situation on a conference call this past Tuesday and a recommendation was made to capture Annie and her calf. Yesterday, a rescue team was able to capture the pair and transport them to Lowry Park Zoo.

-Andy

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LP2103728 Temporary ID: _____ Time Net Set: _____

Name: ANNIE Date: 19 MARCH 2015 Time Captured(Onboard): _____

ID of its (Calf) / Mom: LP2103729 Sex: M / (F) Time On Beach: _____

Location: LOWRY PARK 200 Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue _X_Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: KANE RGNEY

Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 1315 lbs	Manatee + stretcher 1445 lbs	Stretcher weight 130 lbs
Lengths	Total Length (curvilinear) (cm)	327	
	Total Length (straight)	305	
	Snout to Peduncle	225	
	Snout to Anus	200	
	Snout to Umbilicus	100	
Girths	Girth at Peduncle: ~~actual~~ or ½	Ultrasound Loc: 124 cm Belt Loc: in	
	Girth at Anus: ~~actual~~ or ½	172	
	Girth at Umbilicus: ~~actual~~ or ½	220	
	Girth at Axilla: ~~actual~~ or ½	174	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 (4) 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle: ~~Rounded~~ / Flat / Concave	
	Ventrum: ~~Rounded~~ / Flat / Concave / Ventral Folds	
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	KANE RGNEY
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	(Y) / N
SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / (N) Refrig / Freeze
	Fecal? stored?	Y / (N) Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / (N) Refrig / Freeze / DMSO
	Cookie?	Y / (N) Location:
MONITORING	Heartrate: (Stethoscope) EKG Pulse-Oximeter None	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal None	Y (N)
	Respiratory Rate? Y (N)	Y (N)

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LPZ 103228 Temporary ID: _____ Time Net Set: _____

Name: Annie Date: March 9, 2015 Time Captured(Onboard): _____

ID of its (Calf) / Mom: 103229 Sex: M / (F) Time On Beach: _____

Location: LPZ Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue X Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: _____

Air Temp = ____ C F Water Temp = ____ C F Wind: ____ mph Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg)	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	No measurements taken. Will take day of.	
	Total Length (straight)		
	Snout to Peduncle		
	Snout to Anus		
	Snout to Umbilicus		
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm Belt Loc: in	
	Girth at Anus: actual or ½		
	Girth at Umbilicus: actual or ½		
	Girth at Axilla: actual or ½		

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5 Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / N	Ribs visible? Y / N
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / N (describe in comments)
	Person(s) assessing condition:	AB

REPROD. STATUS	Pregnant? Y / N. If so, describe:	
	Lactating?	Y / N

SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal None Y N
	Respiratory Rate? Y N Y N

Manatee ID LPZ 103228 Manatee Name: Annie Date: March 9, 2015

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			(L) / R
	2			L / R
	3			L / R
	Drawn by: AB			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	Y / (N)
	PIT tagged by:			
	Right #	900-0683-1461		
	Left #	900-0683-1A5C		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Color:	
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right	_____ inches	
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	dTag ID & VHF Frequency	ID #:	148._____ MHz	
	dTag Orientation Angles	dTag Pitch: _____°	dTag Roll: _____°	
	Reference Orientation Angles	Ground Pitch: _____°	Ground Roll: _____°	
	TETHER Strength / Length	Strength:	Length: ft.	
	Tether Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Tagged by:			
PHOTOGRAPHS	Taken by:			
	Exposures:			
SKETCHES	Sketched by:			

Comments

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

LP2
Manatee ID: 103228 Temporary ID: _____ Time Net Set: _____
Name: Annie Date: 19 March 2015 Time Captured(Onboard): _____
ID of its (Calf) / Mom: 103229 Sex: M / (F) Time On Beach: _____
Location: Lowry Latitude: _____ N Time Released: _____
Event: ___ Capture ___ Rescue ___ Pre-release Assess. ✓ Release ___ Post-release Assess. Longitude: _____ W Data Recorder: LD
Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 1315 lbs	Manatee + stretcher 1445 lbs	Stretcher weight 130 lbs
Lengths	Total Length (curvilinear) (cm)	327	
	Total Length (straight)	305	
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	Snout to Anus	200	
	Snout to Umbilicus	100	
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	Girth at Anus: actual or ½	172	
	Girth at Umbilicus: actual or ½	220	
	Girth at Axilla: actual or ½	174	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 Poor 2 Fair (3) Good 4 Very Good 5 Excellent / Undetermined	
	Peanut shaped head? Y / N	Ribs visible? Y / N
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / N (describe in comments)
	Person(s) assessing condition:	AB

REPROD. STATUS	Pregnant? Y / N If so, describe:	
	Lactating?	(Y) / N

SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y (N)	
	Temperature: Oral Naso-pharyngeal Rectal None	Y (N)
	Respiratory Rate? (Y) N 25	Y N

LPZ

Manatee ID 103228 Manatee Name: Annie Date: 19 March 2015

FREEZE BRAND	Letters/Numbers applied:	A6	Applied by: SWF	
	Location: between shoulders	Applied 02/11/2008		
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Y / N	PIT tagged at this capture?	Y (N)
	PIT tagged by:			
	Right #	00-0683-1401		
	Left #	00-0683-1A5C		
FLAG	Color and Symbol			
TELEMETRY	TAG Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Color:	
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	dTag ID & VHF Frequency	ID #:	148._____ MHz	
	dTag Orientation Angles	dTag Pitch: _____°	dTag Roll: _____°	
	Reference Orientation Angles	Ground Pitch: _____°	Ground Roll: _____°	
	TETHER Strength / Length	Strength:	Length: ft.	
	Tether Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Tagged by:			
PHOTOGRAPHS	Taken by: LD			
	Exposures:			
SKETCHES	Sketched by: LD			

Comments

L.D. = Lisa DiJenno

Resc/Rel
2/9/15 3/24/15

Rescue Report REC1506

Natural
Cold Stress
(w/mother)

GENERAL

Date of Rescue: 09 February 2015 Date of Initial Call: NA Filed by: D. Levine

Rescue ID: REC1506 Facility ID: LPZ103231 Other ID: Banana

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 146 cm Estimated: No Weight: 86 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.16414° N Longitude (Decimal Degrees): -80.60309° W

Locality Description: approximately 15 m E of the residence at 609 Desoto Ln

Method of Capture: Caught by hand

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☒ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☒	☒
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
02 February 2015	At 0945 hrs, FWC Biologist Ann C. Spellman (ACS) and Daniel A. Levine (DAL) went to Desoto Canal in Satellite Beach to conduct photo-ID and to examine animals for cold stress, following a cold night. The calf of a mother-calf pair was assessed and photo-documented due to obvious signs of external cold stress. ACS and DAL agreed that the calf warranted close monitoring due to some extensive cold stress lesions surrounding the peduncle and nares. Positive mother-calf interactions, including nursing, was observed. No further action was taken at that time.
06 February 2015	At 1145 hrs, DAL and ACS went to the Desoto site to check on several animals

	that were being monitored for cold stress. DAL and ACS again spotted the mom and calf pair. Although the lesions on the animal appeared worse, nursing was still observed and no further action was taken.
08 February 2015	At 1115 hrs, DAL arrived at the Desoto site for animal cold stress assessment after another cold night. DAL located the mother/calf pair in question and observed the calf unsuccessfully attempting to nurse from its mother. He also noticed that it was unable to remain under the water for longer than 5-10 seconds. DAL called ACS to discuss what he saw and possible rescue options for the calf. DAL then called FWC- Manatee Rescue Coordinator Andy J. Garrett. (AJG). AJG suggested that both mom and calf be removed due to documented positive mother-calf interactions. DAL called Lowery Park Zoo to see if they would accept the two animals. Because of the high number of manatees seeking refuge in the Desoto site, DAL and ACS set up the rescue for the next day with the expectation that there would be fewer manatees as warmer weather conditions were expected.
09 February 2015	At 1100 hrs, DAL and ACS assembled a volunteer team at the Desoto site. Most other manatees had moved out and the calf was quickly spotted swimming in an ineffective, undulating motion at the surface in the center of the ditch. At first assessment it seemed as if the mother had left the calf. The mother quickly returned; however, to retrieve the calf, nudging and pushing it. The calf refused to leave the ditch, and the mother eventually stopped its attempts to move the calf and left the canal. A small capture net was set across the ditch to prevent the calf from leaving. ACS started to get a hoop net to capture the animal, when FWC-Volunteer Leo J. Cross (LJC) felt the calf just sitting on his foot and used the opportunity to pick the calf up. DAL and LJC lifted the animal out of the water and placed him into a small stretcher, where he was monitored by FWC-volunteers while staff returned to the canal to try and catch the mother. Within a few minutes the mother returned to the north end of the canal along with three sub-adult animals. Two nets were deployed between the south and the north ends of the canal. DAL and LJC guided the three sub-adults underneath the two nets, leaving just the mother corralled. The smaller of the two nets was pulled around the mother, successfully catching her. A stretcher was placed under the manatee and the net. Attempts to lift the animal over the steep east bank were unsuccessful. The animal was then moved to the west side of the canal and successfully removed from the water. The net was removed and the manatee was loaded into the truck with her calf. The pair were taken to Lowry Park Zoo, arriving at 1430 hrs.

PARTICIPANTS

FWC EC: A. Spellman, D. Levine
FWC Volunteers: L. Cross, P. Caudill, A. Lins, P. Lins, , S. Stephenson, T. Jablonski, L. Hennenberg, J. Herr,
HSWRI: W. Noke-Durden, C. Frey

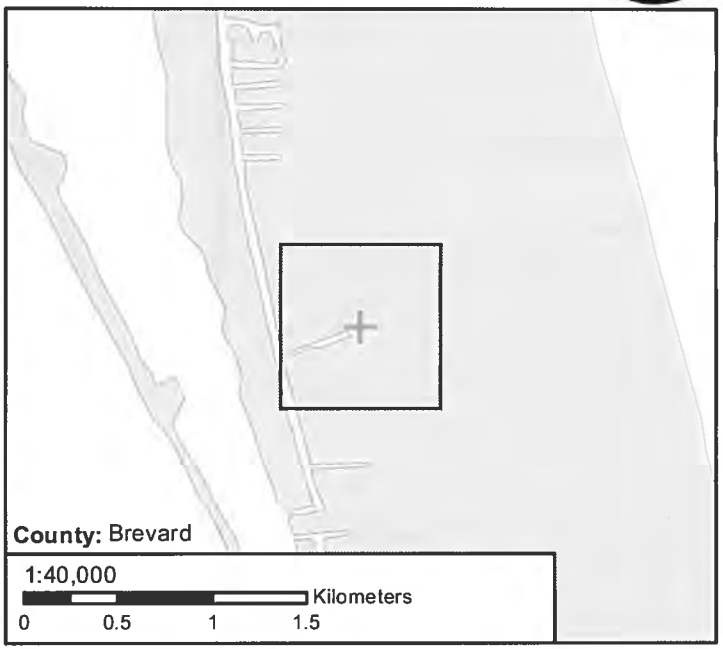
Edited by:

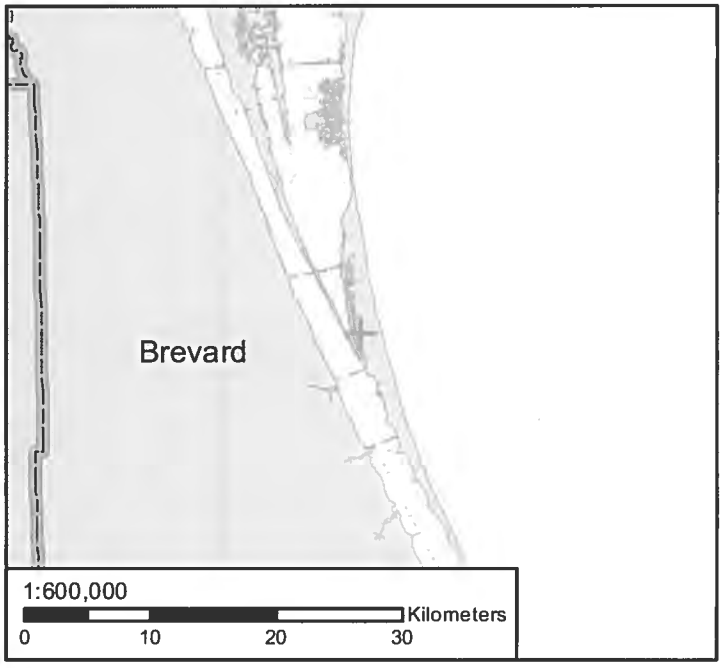
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1506

Rescue Date: 2/9/2015 **Facility ID:** LPZ103231 Map Created 4/21/2016





Locality Description:
approximately 15 m E of the residence at 609 Desoto Ln

Latitude: 28.16414°N **Longitude:** -80.60309°W

Resc | Rel 3/24/15

Szemer, Donna

From: Garrett, Andy
Sent: Monday, February 09, 2015 1:28 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: rescue update

LP2103231 / REC1506 - Calf "Banana"
LP2103230 / REC1507 - Mom "Bree"

Desoto Canal:

Over the past few weeks, FWC-ECFL staff have been monitoring a small dependent calf with moderate to severe cold stress in the Desoto Canal. The calf has been observed nursing from a large adult female in the canal. Over the weekend, ECFL staff reported that the calf's condition appeared to have worsened and it was struggling to breathe and nurse. The cow and calf were captured this morning by FWC and Sea World and the pair was transported to Lowry Park Zoo.

-Andy

FLORIDA TODAY

Manatee calf, mother rescued from Satellite Beach canal

REC1506-Calf
REC1507-Mom

Rick Neale
1:39 p.m. EST February 9, 2015

Raw video shows manatee rescue in Satellite Beach on Monday, Feb. 9, 2015. Video by Rick Neale.

(Photo: Rick Neale, FLORIDA TODAY)

Splashing and thrashing its rounded tail, the 1,600-pound manatee struggled to free herself from a net — flinging mud onto nine people who struggled to simply hang onto the net.

The human rescuers won the struggle. Volunteers hauled the uncooperative sea cow and her ailing, cold-stressed calf from a shallow Satellite Beach canal Monday morning.

Both manatees were lifted into a Florida Fish and Wildlife Conservation Commission truck and transported to Tampa's Lowry Park Zoo for medical treatment.

"They don't know you're trying to help them. And they're like horses — they're extremely strong. They spook easy. And they're just trying to get away from you. So they give us quite a fight," said Ann Spellman, an FWC marine mammal biologist.

The manatee rescue occurred off Desoto Parkway at a canal near the Satellite Beach youth sports fields, a popular wintertime manatee viewing spot.

Spellman estimated the calf measured 5 feet long and weighed 200 pounds, while its mother was about 10 feet in length.

FWC officials had monitored the cold-stressed calf for three hours per day for the past week, said Dan Levine, FWC marine mammal biologist. The small sea cow had become sluggish and developed sores on its body, and it ignored its mother's attempts to nudge it out of the canal.

"While it's not a brutal winter, it's definitely enough for these small animals to suffer from exposure," Spellman said.

A couple dozen onlookers gathered to watch Monday's rescue operation, which lasted roughly two hours. The calf lay still, wrapped in two blankets atop a blue tarp on the canal bank, while volunteers wrangled with its mother.

"If a manatee calf can be in captivity with its mother, we can release the calf as soon as it's healthy within a few months. If we have to orphan a calf, it has to remain in captivity for up to four or five years," Levine said.

http://www.floridatoday.com/story/news/local/environment/2015/02/09/cold-stressed-manatee-removed-from-brevard-canal/23118003/

FLORIDA TODAY

Manatee calf, mother rescued from Satellite Beach canal

Rick Neale, *9:46 a.m. EST February 10, 2015*

Update, Feb. 10:
The mother manatee and her calf were reunited Monday afternoon in a tank at the David A. Straz Jr. Manatee Hospital at Tampa's Lowry Park Zoo, said Ann Spellman, a Florida Fish and Wildlife Conservation Commission marine mammal biologist.

And the calf immediately began nursing, Spellman said.

Volunteers used nets to remove both manatees from a Satellite Beach canal. The calf had suffered burns and lesions because of cold stress, so it will remain under medical care while its skin heals.

Rachel Nelson, zoo spokeswoman, could not be reached for comment this morning.

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LP2 103231 Temporary ID: _____ Time Net Set: _____

Name: Banana Date: 13 March 2015 Time Captured(Onboard): _____

ID of its Calf / Mom: 103230 Sex: (M) / F Time On Beach: _____

Location: _____ Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue ____Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: _____

Air Temp = ____ C F Water Temp = ____ C F Wind: ____ mph ____ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 255	Manatee + stretcher 385	Stretcher weight 130
Lengths	Total Length (curvilinear) (cm)	176	
	Total Length (straight)	160	
	Snout to Peduncle	119	
	Snout to Anus	105	
	Snout to Umbilicus	60	
Girths	Girth at Peduncle: actual or ½ (66)	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½	90	
	Girth at Umbilicus: actual or ½	136	
	Girth at Axilla: actual or ½	102	

ULTRASOUND	Reader Name: RLB			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	10.96cm	11.13cm	10.91cm
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 4 5 Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	DCB

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)

SAMPLES	Milk sample collected? stored?	Y / N Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal None Y N
	Respiratory Rate? Y N Y N

Manatee ID LPZ103231 Manatee Name: Banana Date: 13 March 2015

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red: /	Purple: /
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Y / N	PIT tagged at this capture?	Y / N
	PIT tagged by:			
	Right #	00-0675-A7A9		
	Left #	00-0675-9745		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Color:	
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	dTag ID & VHF Frequency	ID #:	148._____ MHz	
	dTag Orientation Angles	dTag Pitch: _____°	dTag Roll: _____°	
	Reference Orientation Angles	Ground Pitch: _____°	Ground Roll: _____°	
	TETHER Strength / Length	Strength:	Length: ft.	
	Tether Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Tagged by:			
PHOTOGRAPHS	Taken by:			
	Exposures:			
SKETCHES	Sketched by:			

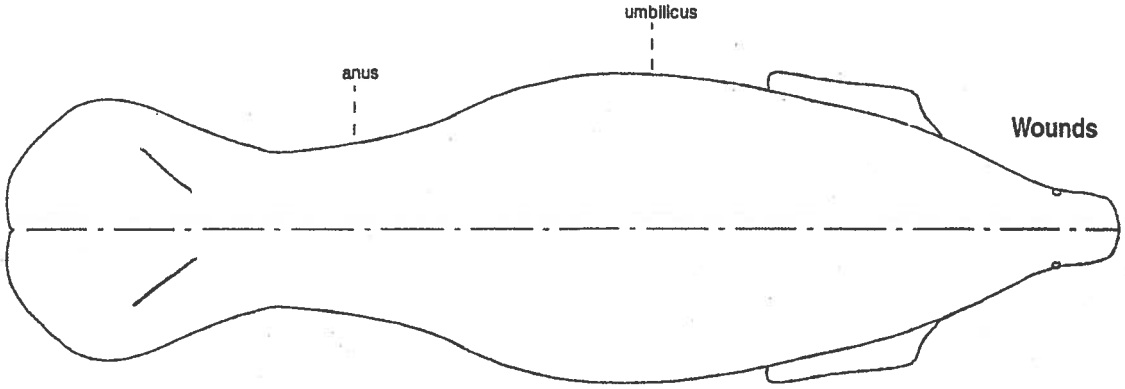
Comments

Banang

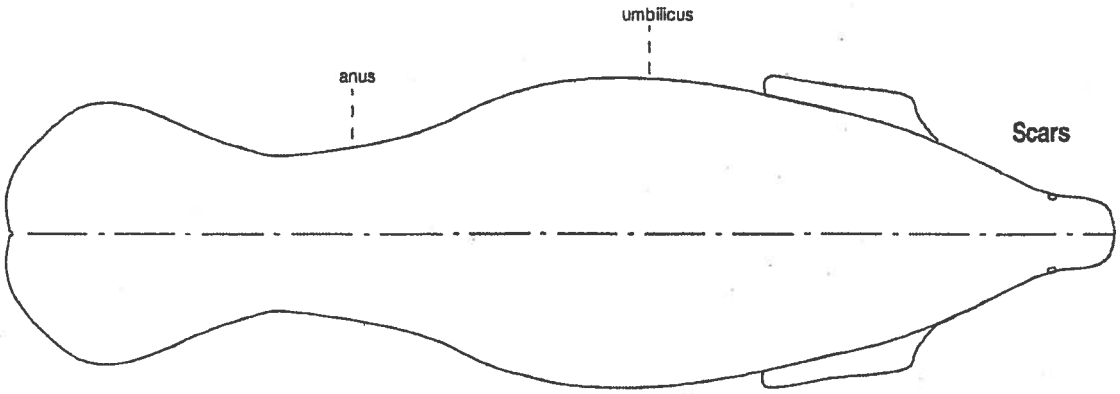
Date 13 March 2015

Field I.D. LPZ/03230

c:\ Manuals \ scar2dat \ 26 July02



Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				



Resc/Rel 2/9/15 3/24/15

Rescue Report REC1507

GENERAL

Mother of Rescued Calf (REC1506)

Date of Rescue: 09 February 2015 Date of Initial Call: NA Filed by: D. Levine

Rescue ID: REC1507 Facility ID: LPZ103230 Other ID: Bree

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 275 cm Estimated: No Weight: 404 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1645° N Longitude (Decimal Degrees): -80.6031° W

Locality Description: approximately 25 m E of the residence at 603 Desoto Ln

Method of Capture: Net set from land

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Mother of rescued calf (REC1506)

All Other

Describe: Mother of dependent cold stressed calf (REC1507)

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
02 February 2015	At 0945 hrs, FWC Biologist Ann C. Spellman (ACS) and Daniel A. Levine (DAL) went to Desoto Canal in Satellite Beach to conduct photo-ID and to examine animals for cold stress, following a cold night. The calf of a mother-calf pair was assessed and photo-documented due to obvious signs of external cold stress. ACS and DAL agreed that he calf warranted close monitoring due to some extensive cold stress lesions surrounding the peduncle and nares. Positive mother-calf interactions including nursing was observed. No further action was taken at that time.
06 February 2015	At 1145 hrs, DAL and ACS went to the Desoto site to check on several animals that were being monitored for cold stress. DAL and ACS again spotted the mom and calf pair. Although the lesions on the animal appeared worse, nursing was still be observed and no further action was taken.
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09 February 2015	At 1100 hrs, DAL and ACS assembled a volunteer team at Desoto. Most other manatees had moved out. The calf was quickly spotted swimming in an ineffective, undulating motion at the surface in the center of the ditch. At first assessment it seemed as if the mother had left the calf. The mother quickly returned; however, to retrieve the calf, nudging and pushing it. The calf refused to leave the ditch, and the mother eventually stopped its attempts to move the calf and left the canal. A small capture net was set across the ditch to prevent the calf from leaving. ACS started to get a hoop net to capture the animal, when FWC-Volunteer Leo J. Cross (LJC) felt the calf just sitting on his foot and used the opportunity to pick up the calf (REC1506). DAL and LJC lifted the animal out of the water and placed him into a small stretcher, where he was monitored by FWC-volunteers while staff returned to the canal to try and catch the mother. Within a few minutes the mother returned to the north end of the canal along with three sub-adult animals. Two nets were deployed between the south and the north ends of the canal. DAL and LJC guided the three sub-adults underneath the two nets, leaving just the mother corralled. The smaller of the two nets was pulled around the mother, successfully catching her. A stretcher was placed under the manatee and the net. Attempts to lift the animal

	over the steep east bank were unsuccessful. The animal was then moved to the west side of the canal and successfully removed from the water. The net was removed and the manatee was loaded into the truck with her calf. The pair were taken to Lowry Park Zoo, arriving at 1430 hrs.

PARTICIPANTS

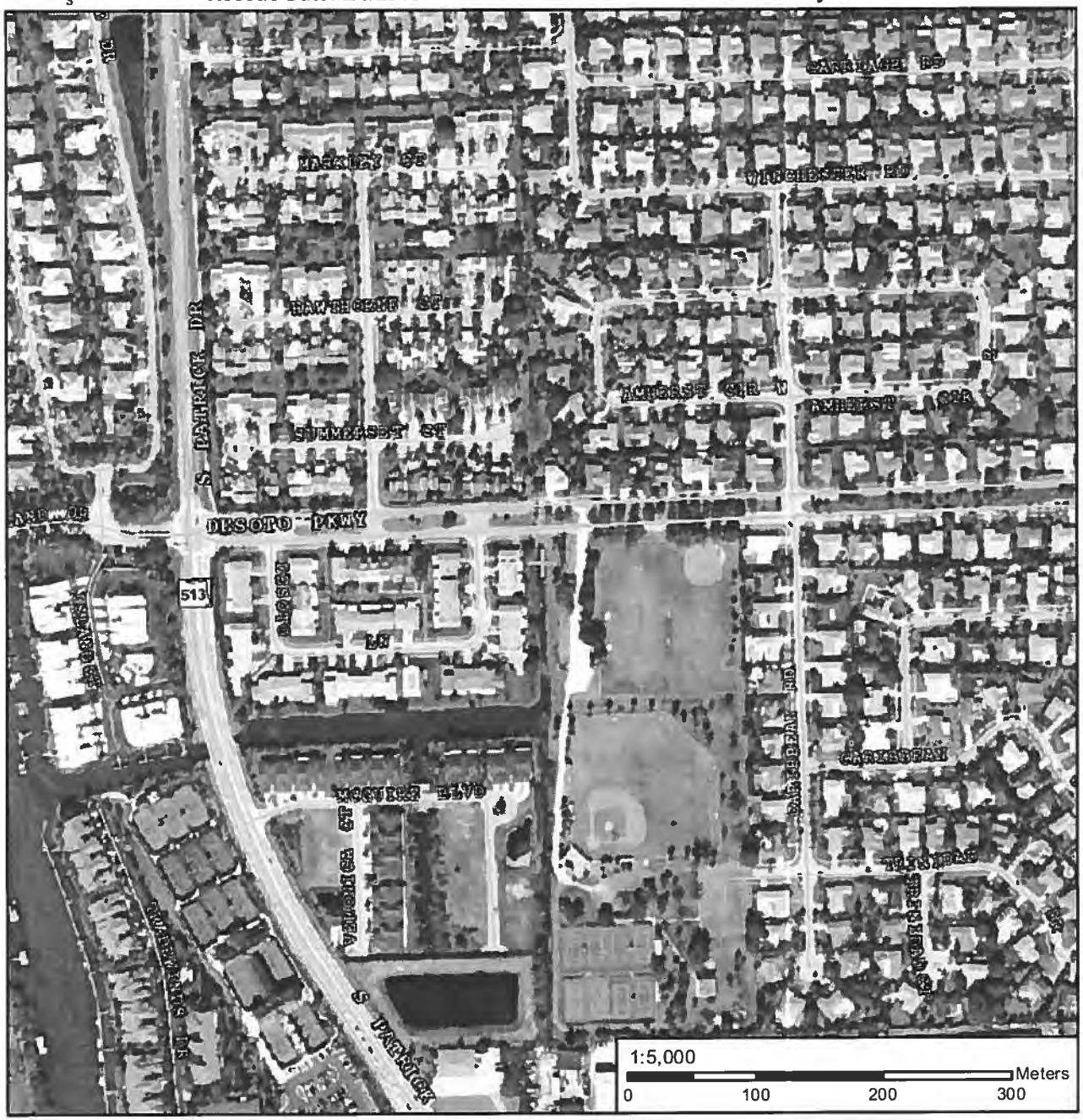
FWC EC: A. Spellman, D. Levine
FWC Volunteers: L. Cross, P. Caudill, A. Lins, P. Lins, , S. Stephenson, T. Jablonski, L. Hennenberg, J. Herr,
HSWRI: W. Noke-Durden, C. Frey

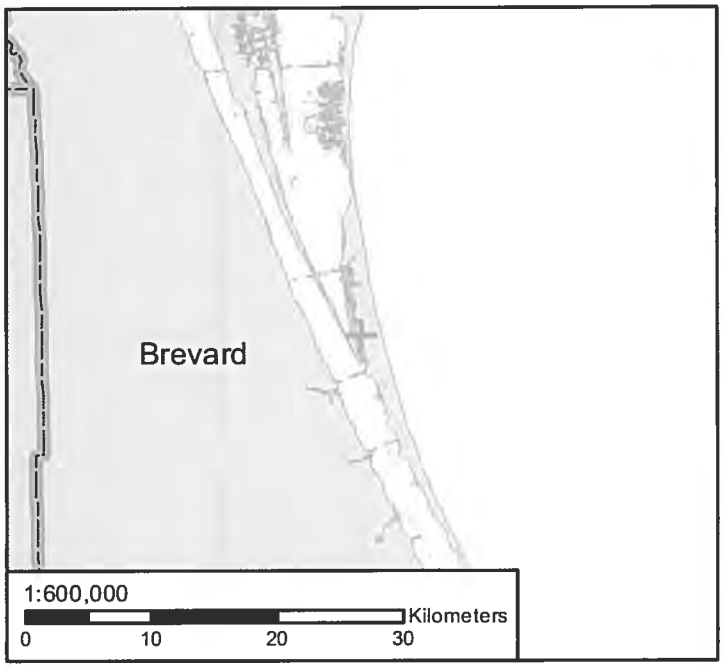
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1507

Rescue Date: 2/9/2015 **Facility ID:** LPZ103230 Map Created 4/21/2016





Locality Description:
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Latitude: 28.1645°N **Longitude:** -80.60301°W

Resc | Rel
3/24/15

Szemer, Donna

From: Garrett, Andy
Sent: Monday, February 09, 2015 1:28 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gretchen Lovewell; Honaker, Allison; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Segelson, Carli; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: rescue update

LP2103231 / REC1506 - Calf "Banana"
LP2103230 / REC1507 - Mom "Bree"

Desoto Canal:

Over the past few weeks, FWC-ECFL staff have been monitoring a small dependent calf with moderate to severe cold stress in the Desoto Canal. The calf has been observed nursing from a large adult female in the canal. Over the weekend, ECFL staff reported that the calf's condition appeared to have worsened and it was struggling to breathe and nurse. The cow and calf were captured this morning by FWC and Sea World and the pair was transported to Lowry Park Zoo.

-Andy

FLORIDA TODAY

Manatee calf, mother rescued from Satellite Beach canal

REC1506-Calf
REC1507-Mom

Rick Neale
1:39 p.m. EST February 9, 2015

Raw video shows manatee rescue in Satellite Beach on Monday, Feb. 9, 2015. Video by Rick Neale.

(Photo: Rick Neale, FLORIDA TODAY)

Splashing and thrashing its rounded tail, the 1,600-pound manatee struggled to free herself from a net — flinging mud onto nine people who struggled to simply hang onto the net.

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"They don't know you're trying to help them. And they're like horses — they're extremely strong. They spook easy. And they're just trying to get away from you. So they give us quite a fight," said Ann Spellman, an FWC marine mammal biologist.

The manatee rescue occurred off Desoto Parkway at a canal near the Satellite Beach youth sports fields, a popular wintertime manatee viewing spot.

Spellman estimated the calf measured 5 feet long and weighed 200 pounds, while its mother was about 10 feet in length.

FWC officials had monitored the cold-stressed calf for three hours per day for the past week, said Dan Levine, FWC marine mammal biologist. The small sea cow had become sluggish and developed sores on its body, and it ignored its mother's attempts to nudge it out of the canal.

"While it's not a brutal winter, it's definitely enough for these small animals to suffer from exposure," Spellman said.

A couple dozen onlookers gathered to watch Monday's rescue operation, which lasted roughly two hours. The calf lay still, wrapped in two blankets atop a blue tarp on the canal bank, while volunteers wrangled with its mother.

"If a manatee calf can be in captivity with its mother, we can release the calf as soon as it's healthy within a few months. If we have to orphan a calf, it has to remain in captivity for up to four or five years," Levine said.

http://www.floridatoday.com/story/news/local/environment/2015/02/09/cold-stressed-manatee-removed-from-brevard-canal/23118003/

FLORIDA TODAY

Manatee calf, mother rescued from Satellite Beach canal

Rick Neale, *9:46 a.m. EST February 10, 2015*

Update, Feb. 10:
The mother manatee and her calf were reunited Monday afternoon in a tank at the David A. Straz Jr. Manatee Hospital at Tampa's Lowry Park Zoo, said Ann Spellman, a Florida Fish and Wildlife Conservation Commission marine mammal biologist.

And the calf immediately began nursing, Spellman said.

Volunteers used nets to remove both manatees from a Satellite Beach canal. The calf had suffered burns and lesions because of cold stress, so it will remain under medical care while its skin heals.

Rachel Nelson, zoo spokeswoman, could not be reached for comment this morning.

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: LPZ 103230 Temporary ID: _____ Time Net Set: _____

Name: Bree Date: 13 March 21 Time Captured(Onboard): _____

ID of its Calf / Mom: 103231 Sex: M / (F) Time On Beach: _____

Location: _____ Latitude: _____ N Time Released: _____

Event: ____Capture ____Rescue ____Pre-release Assess. ____Release ____Post-release Assess. Longitude: _____ W Data Recorder: _____

Air Temp = ___ C F Water Temp = ___ C F Wind: ___ mph ___ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 1040	Manatee + stretcher 1170	Stretcher weight 3
Lengths	Total Length (curvilinear) (cm)	~ 8	
	Total Length (straight)	2 3	
	Snout to Peduncle	:	
	Snout to Anus	: 4	
	Snout to Umbilicus		
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm Belt Loc: in	
	Girth at Anus: actual or ½	15	
	Girth at Umbilicus: actual or ½	22	
	Girth at Axilla: actual or ½	19	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	10.42cm	/ cm	11.11 m
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 4 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / N	Ribs visible? Y / (N)
	Side between anus & peduncle:	Rounded / Flat / Concave
	Ventrum:	Rounded / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	

REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	(Y) / N

SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / N Refrig / Freeze
	Fecal? stored?	Y / N Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / N Refrig / Freeze / DMSO
	Cookie?	Y / N Location:

MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter None **Data Sheets?** Y N	
	Temperature: Oral Naso-pharyngeal Rectal None	Y N
	Respiratory Rate? Y N	Y N

Manatee ID LPZ 103230 Manatee Name: Bree Date: 13 March 15

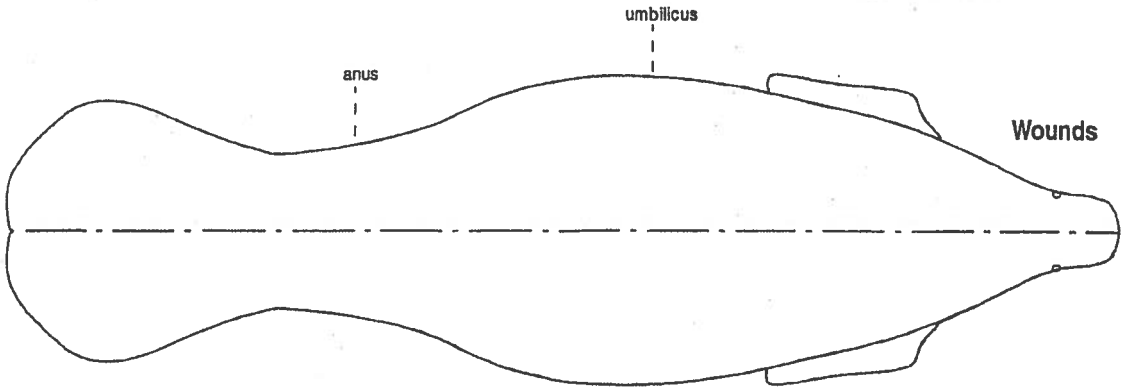
FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue: 0	Red: 2	Purple: 1
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	Y / N	PIT tagged at this capture?	Y / N
	PIT tagged by:			
	Right #	0 0 - 0 6 7 1 - F 4 5 F		
	Left #	0 0 - 0 6 7 1 - E 9 E F		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Color:	
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	dTag ID & VHF Frequency	ID #:	148._____ MHz	
	dTag Orientation Angles	dTag Pitch: _____°	dTag Roll: _____°	
	Reference Orientation Angles	Ground Pitch: _____°	Ground Roll: _____°	
	TETHER Strength / Length	Strength:	Length: ft.	
	Tether Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Tagged by:			
PHOTOGRAPHS	Taken by:	JG		
	Exposures:			
SKETCHES	Sketched by:	ML		

Comments

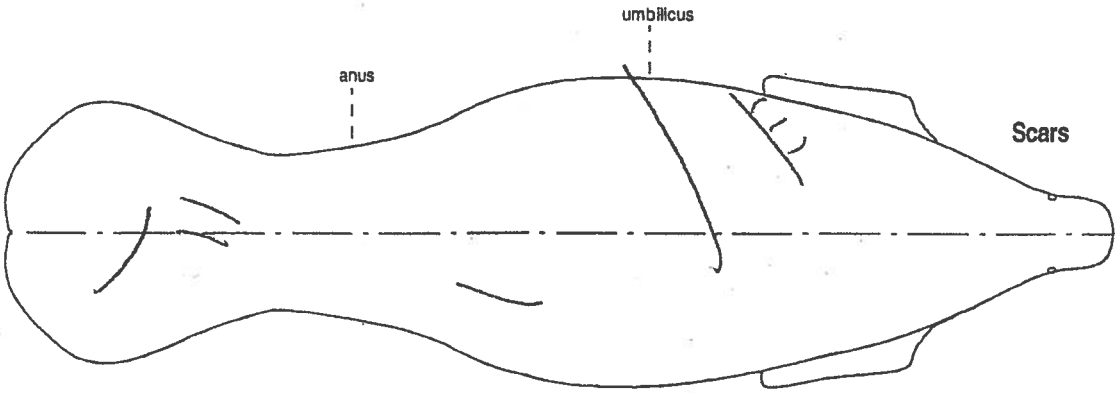
J. G. = Jennifer Galbraith
M. L. = Molly Lippincott

Date 13 March 2015 Field I.D. LPZ Bree 10.3230

c:\ Manuals \ scar2dat\ 26 July 02

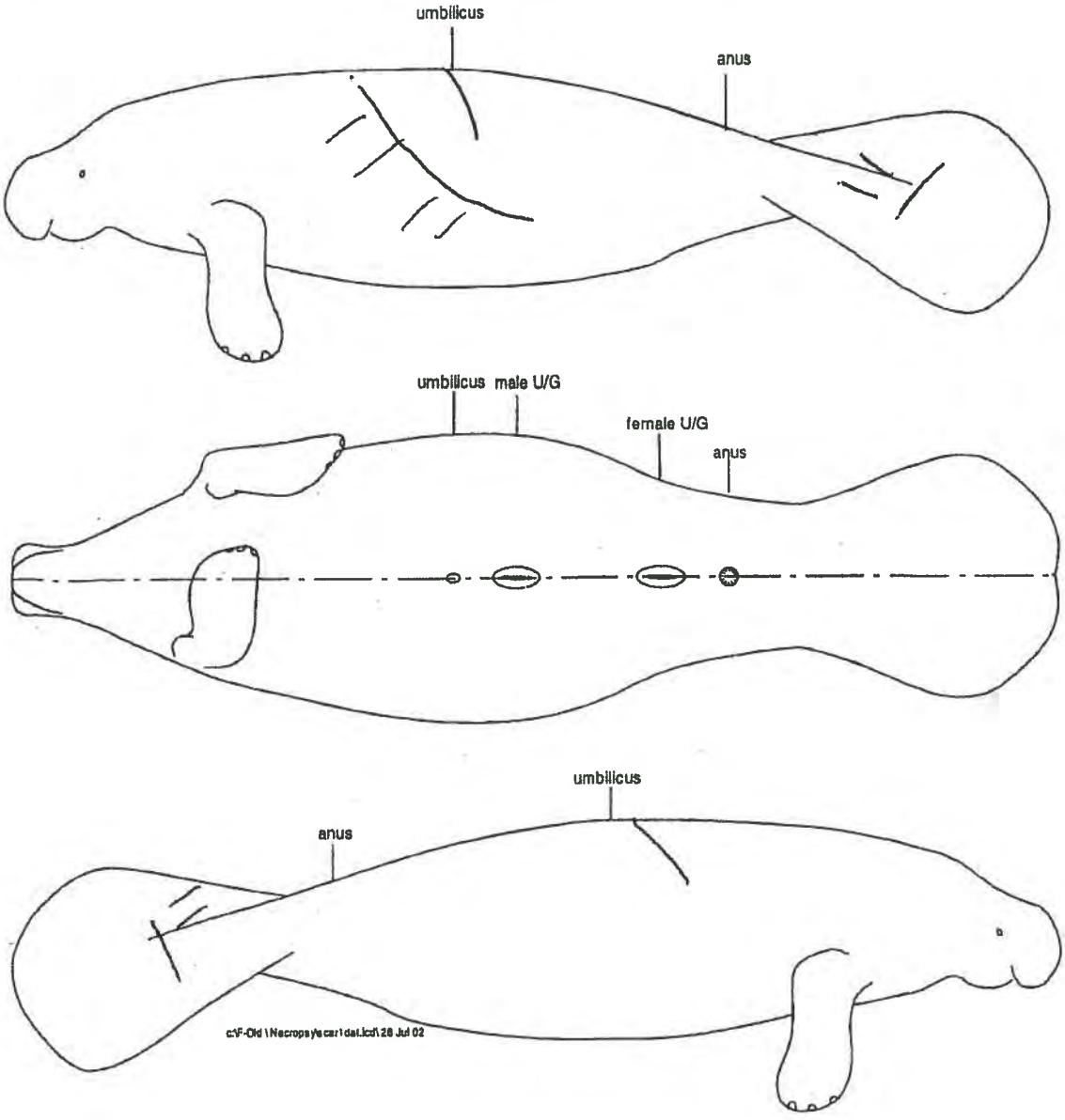


Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				



Bree

FIELD I.D. LPZ103230



Asst. & Rel

Rescue Report

REC1508

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1508 Facility ID: SWFTm1504B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 280 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17225° N Longitude (Decimal Degrees): -080.6034° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Placed in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and

	photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC resçue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was

removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF

Tuesday, 24 February 2015	animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

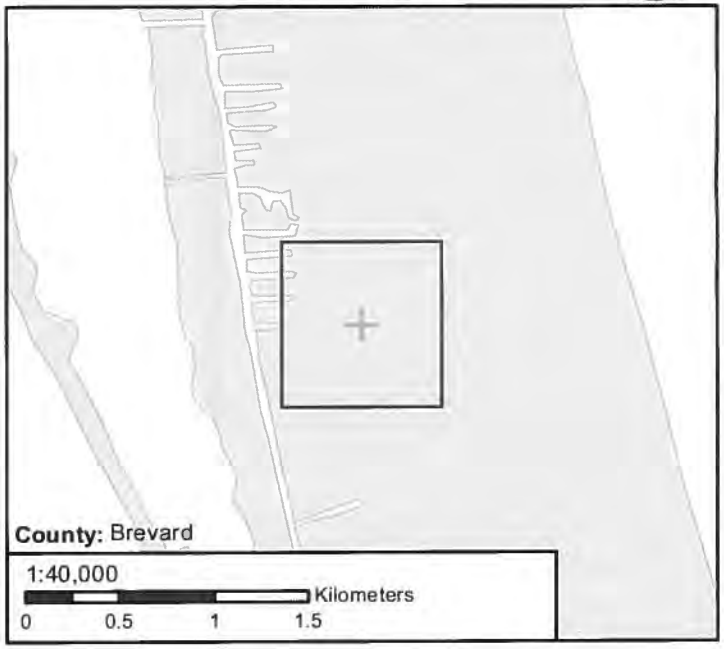
Edited by:

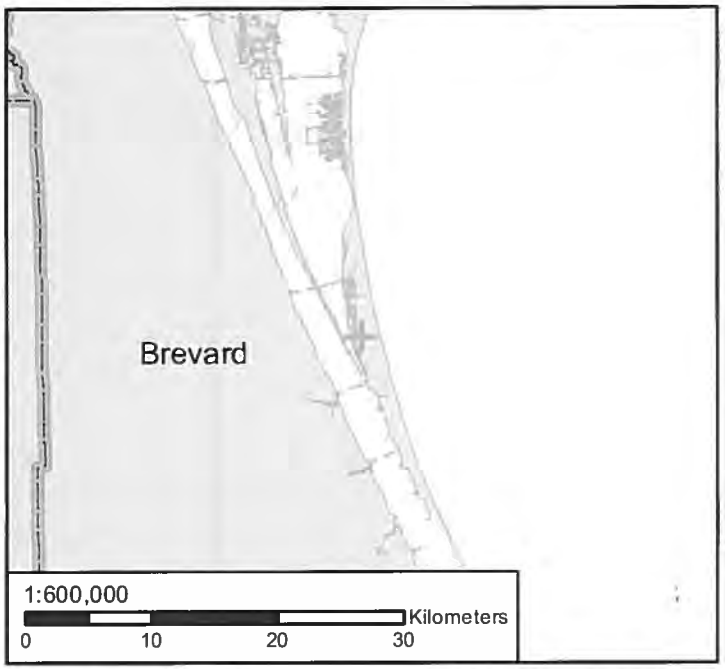
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1508

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1504b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17225°N **Longitude:** -80.6034°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).

48"

PIPE #1

PIPE #2

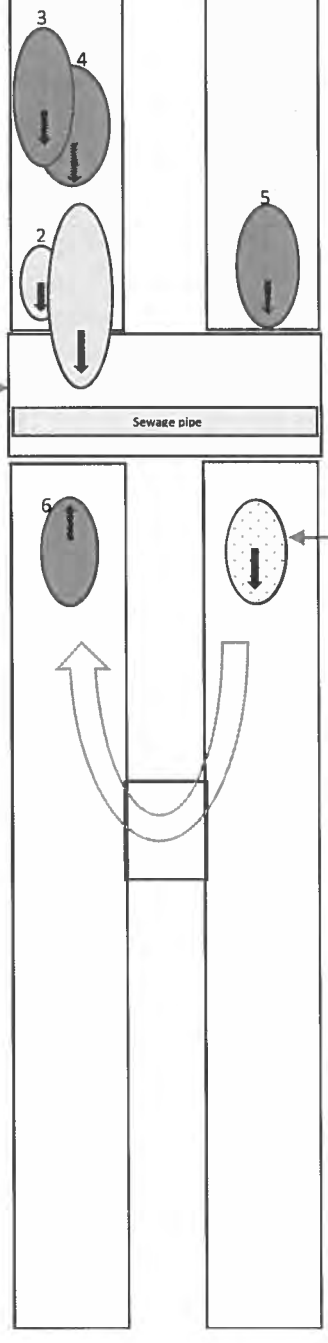
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT



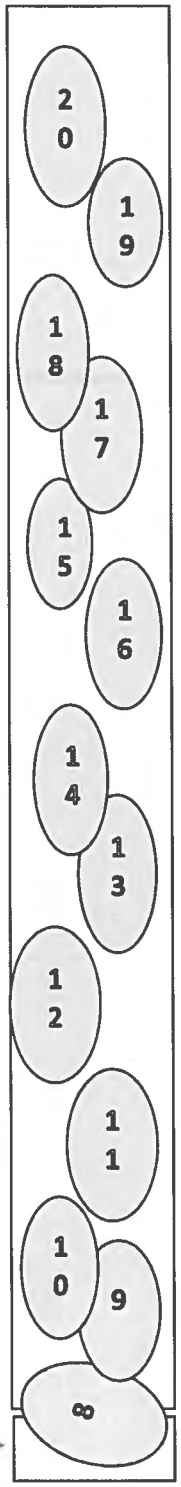
Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

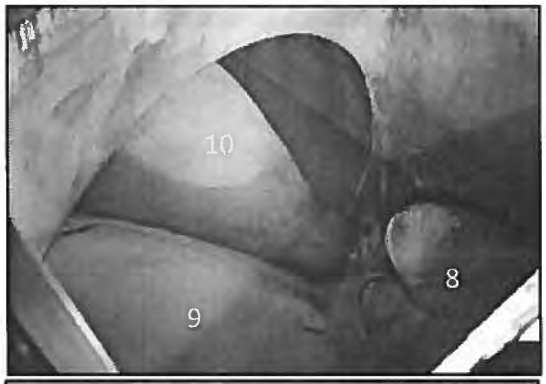
48"



Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

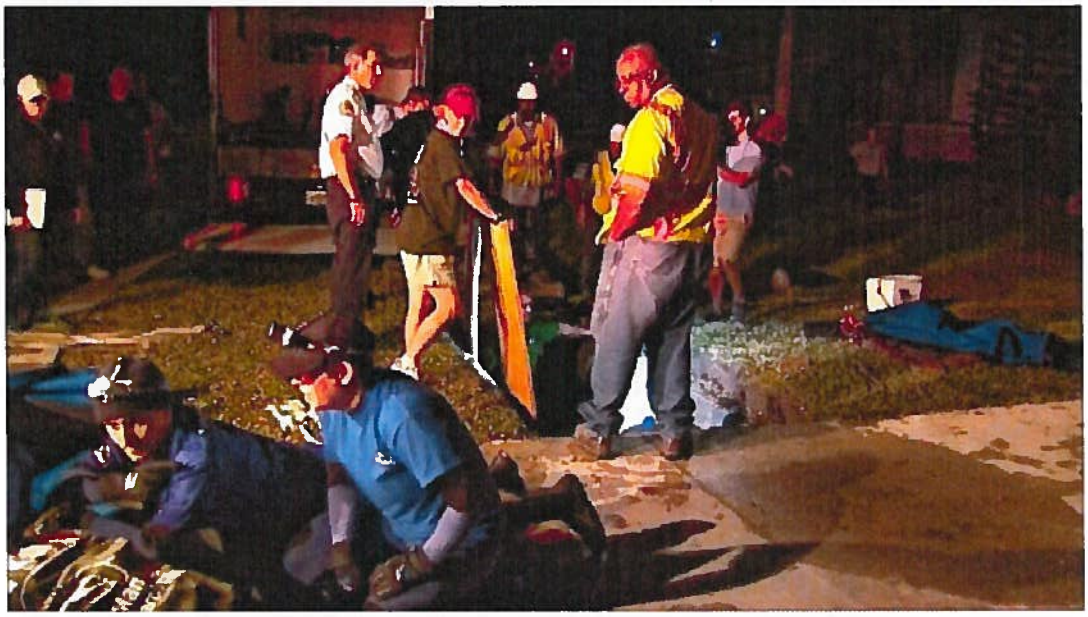
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach

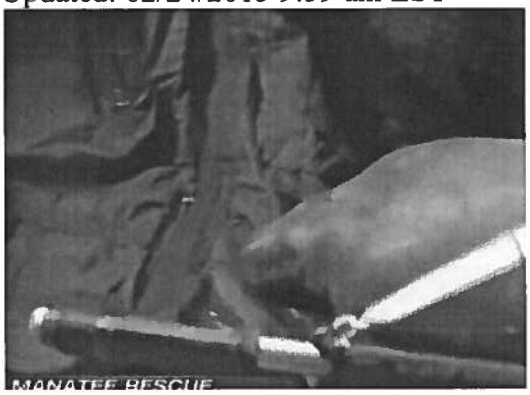


DO NOT
ENTER

http://www.myfoxtampabay.com/story/28181693/2015/02/23/rescuers-work-to-free-manatees-stuck-in-drain

Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST



ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1509

Entrapment Human (culvert)

General

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1509 Facility ID: SWFTm1505B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 203 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17225° N Longitude (Decimal Degrees): -080.60342° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Place in stretcher and removed by crane

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document

	animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work

some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit

Tuesday, 24 February 2015	consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

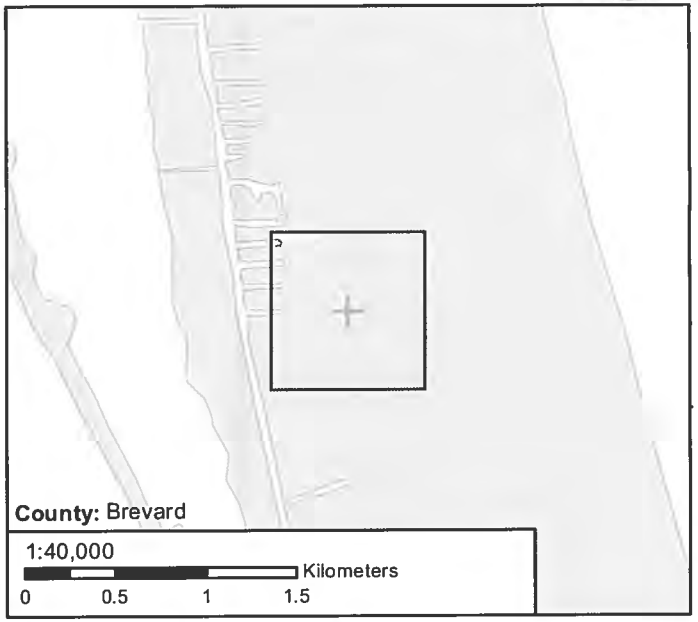
Edited by:

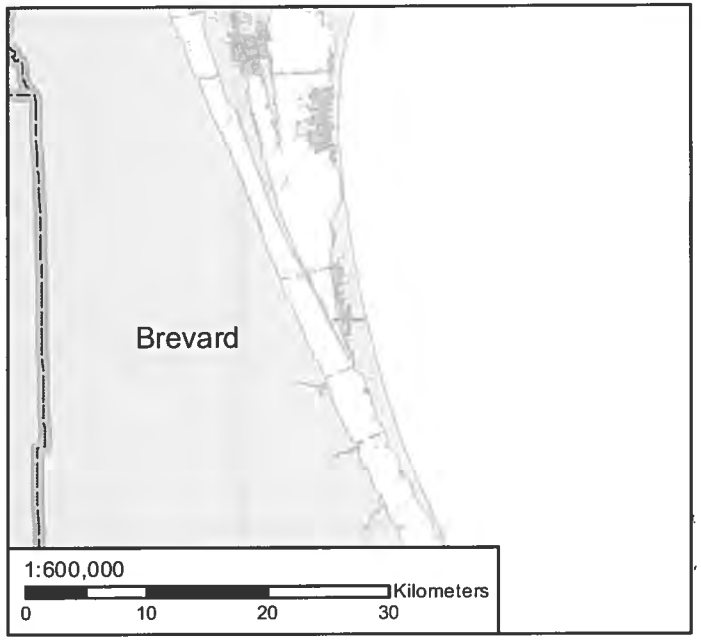
TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1509

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1505b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17225°N **Longitude:** -80.60342°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

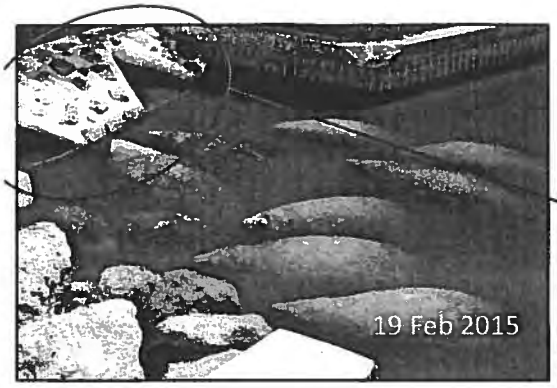
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

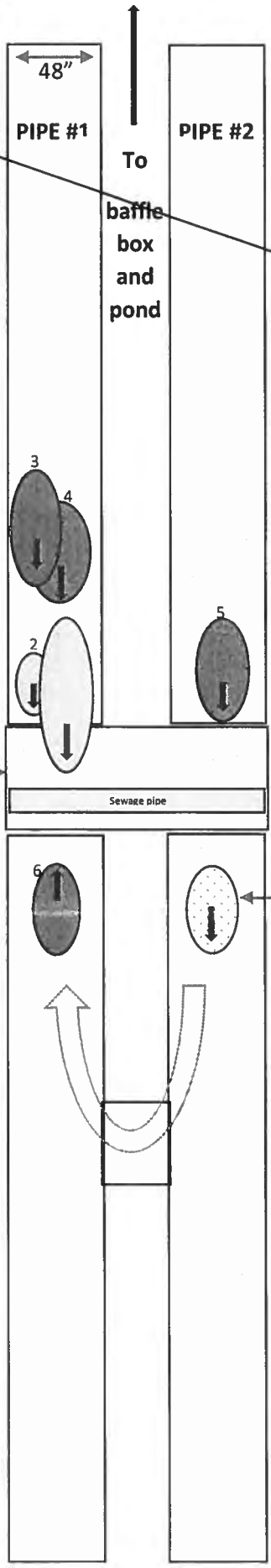
Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).





SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT

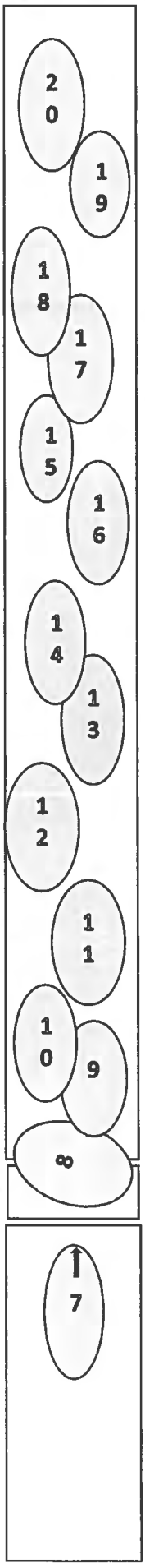
Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

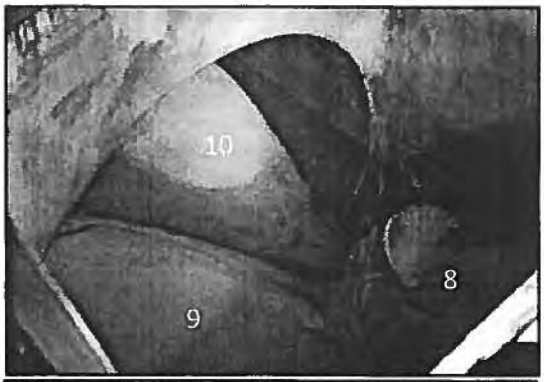
48"



Section 2

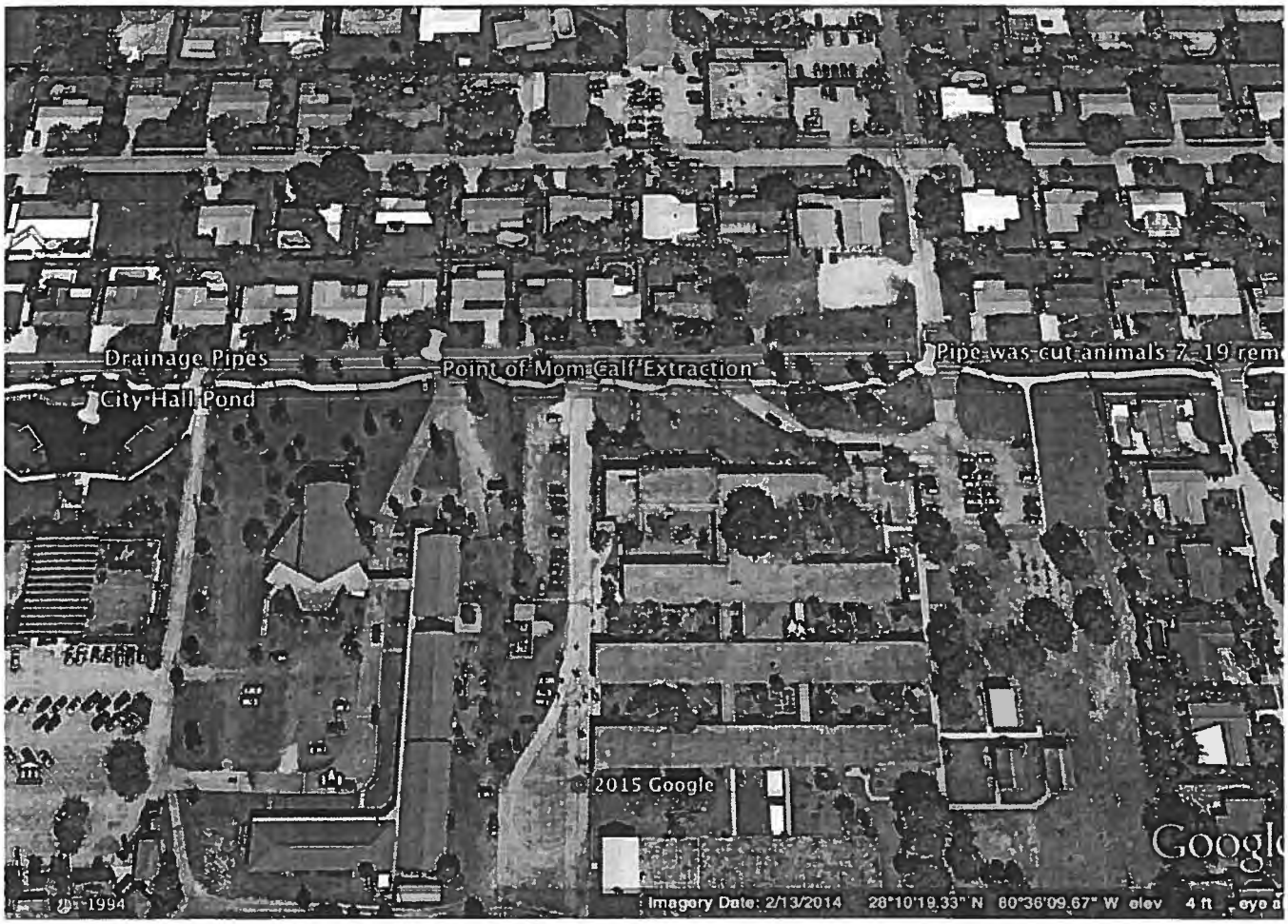
Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
Point of Mom Calf Extraction
Pipe was cut animals 7-19
City Hall Pond
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

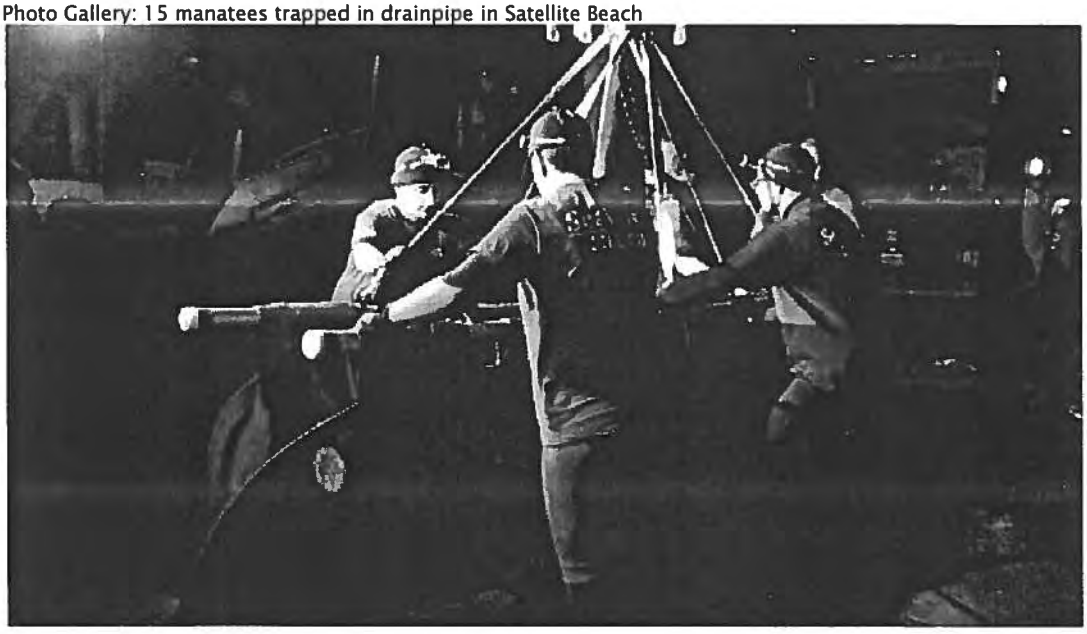
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

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She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

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Hsst. + Rel

Rescue Report

REC1510

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1510 Facility ID: SWFTm1506B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Unknown Length: 305 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17225° N Longitude (Decimal Degrees): -080.60345° W

Locality Description: In storm water drain pipe running parallel to Cassis Blvd, 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Manually maneuvered and worked out of the pipe into pond

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
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Animal Before Rescue	☐	☐
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While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was

removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF

Tuesday, 24 February 2015	animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

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Blackwater Diving Company Divers

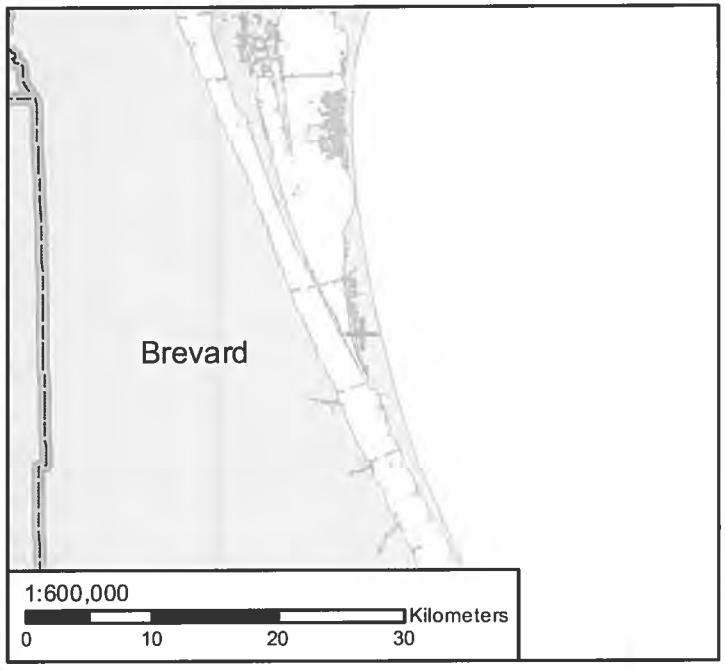
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1510

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1506b Map Created 4/21/2016



Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17225°N **Longitude:** -80.60345°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

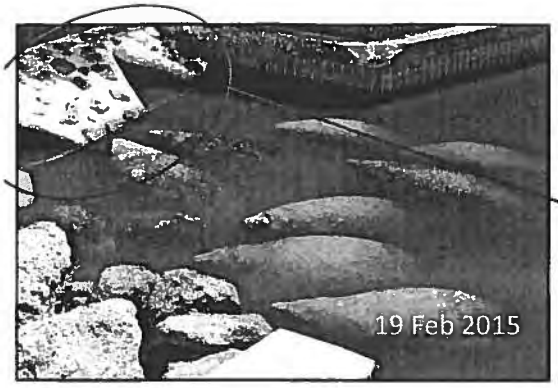
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

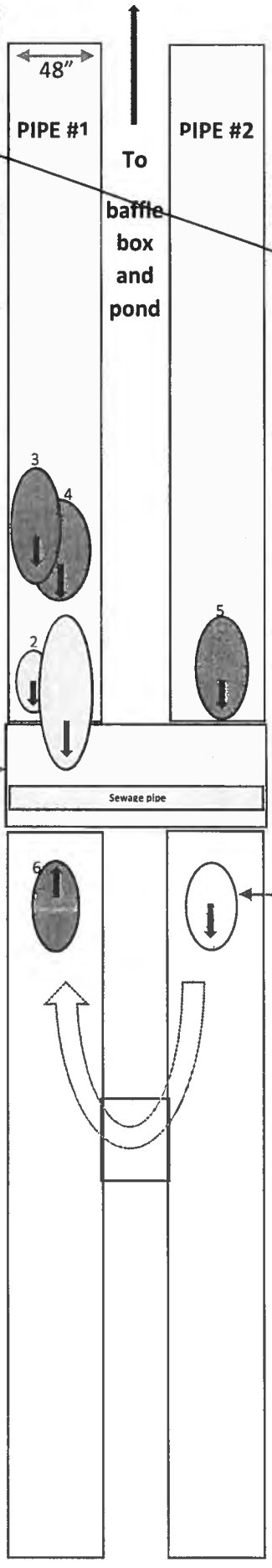
To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT

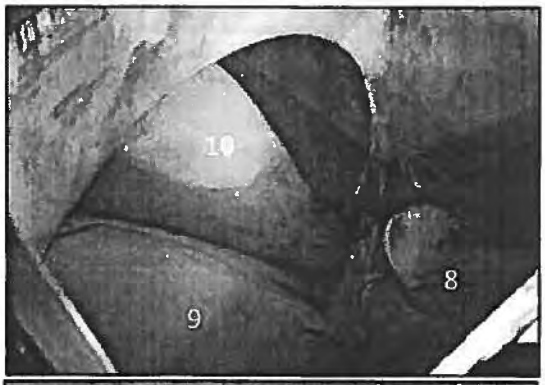
Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

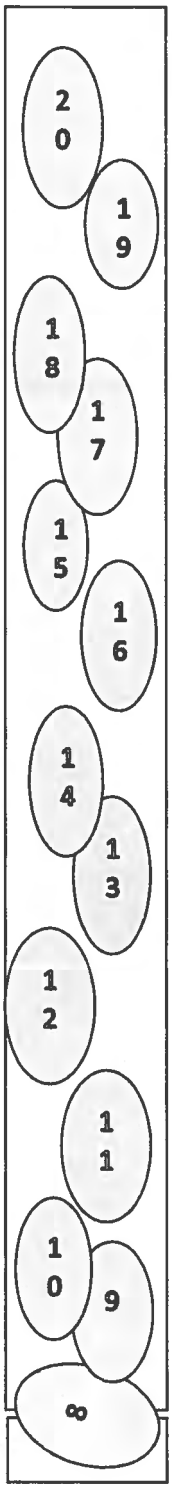
48"

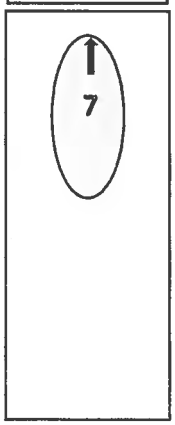
Section 2

Direction manatees # 8-20 were facing

WEST

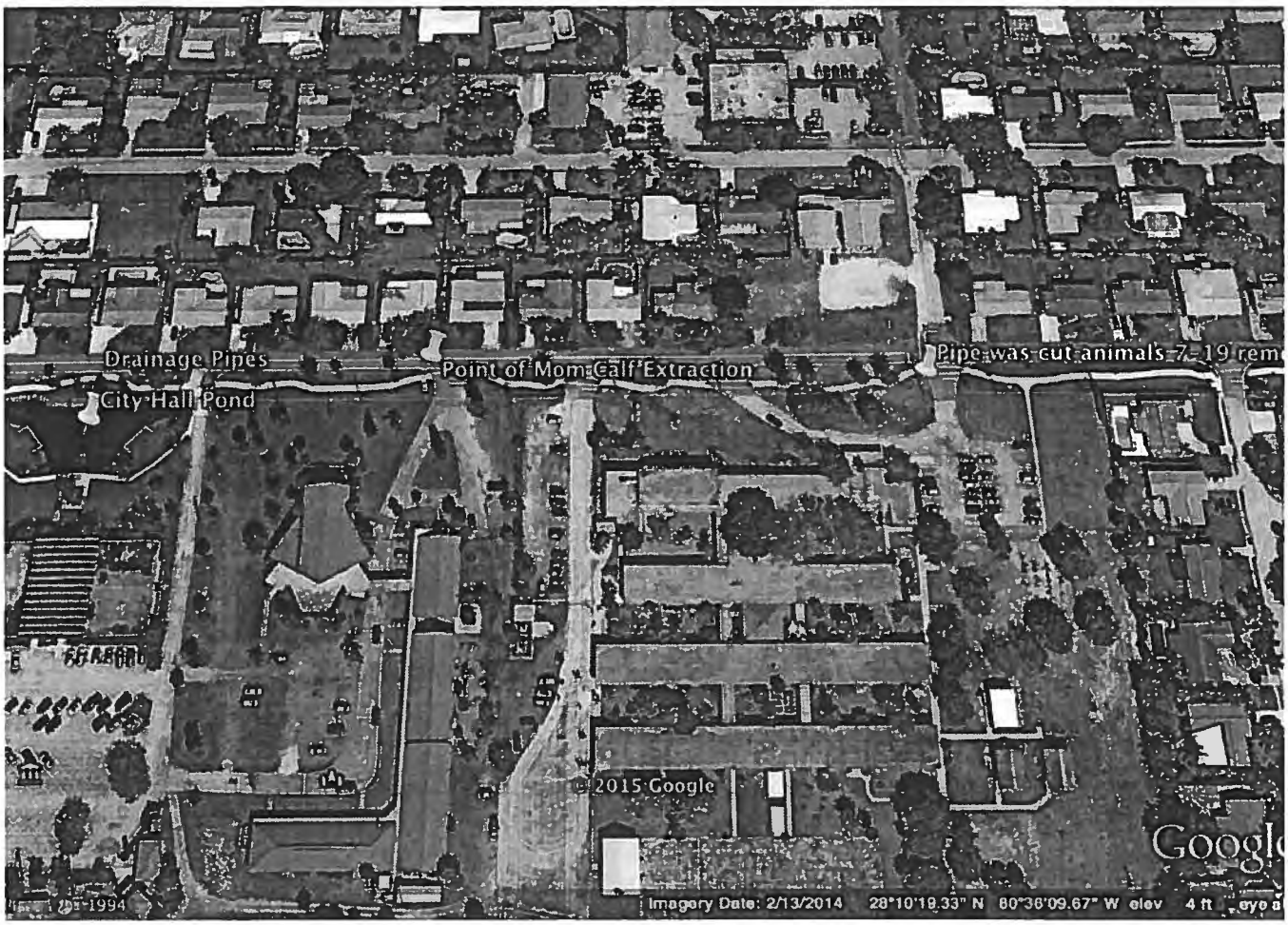






Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

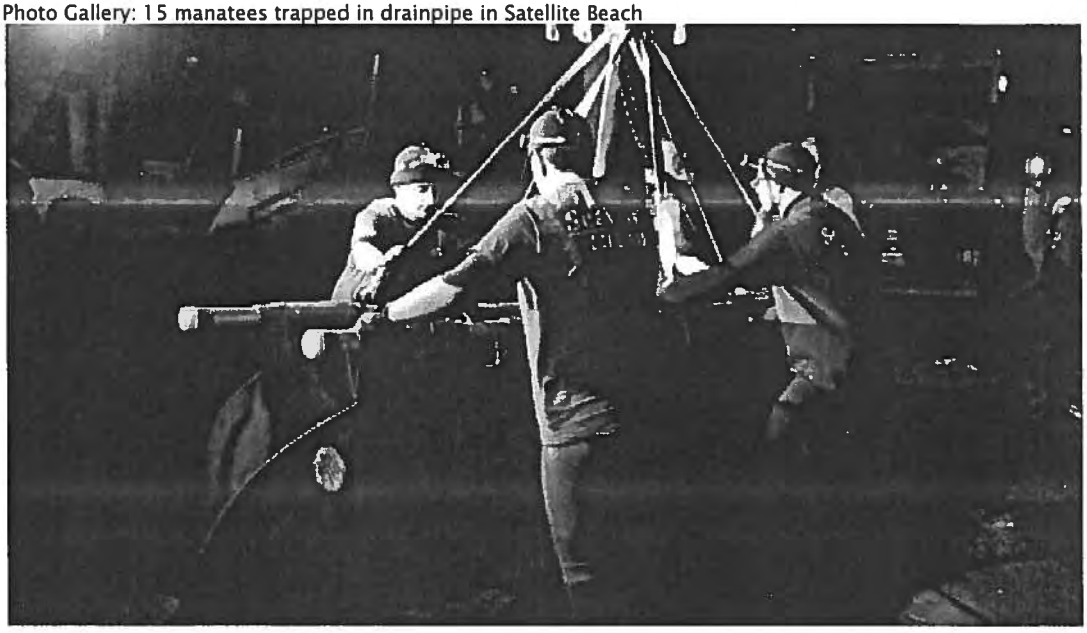
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1511

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1511 Facility ID: SWFTm1507B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Unknown Length: 305 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17225° N Longitude (Decimal Degrees): -080.60347° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Turned around and manually pushed out

REASON FOR RESCUE

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☒ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and

	photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

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Blackwater Diving Company Divers

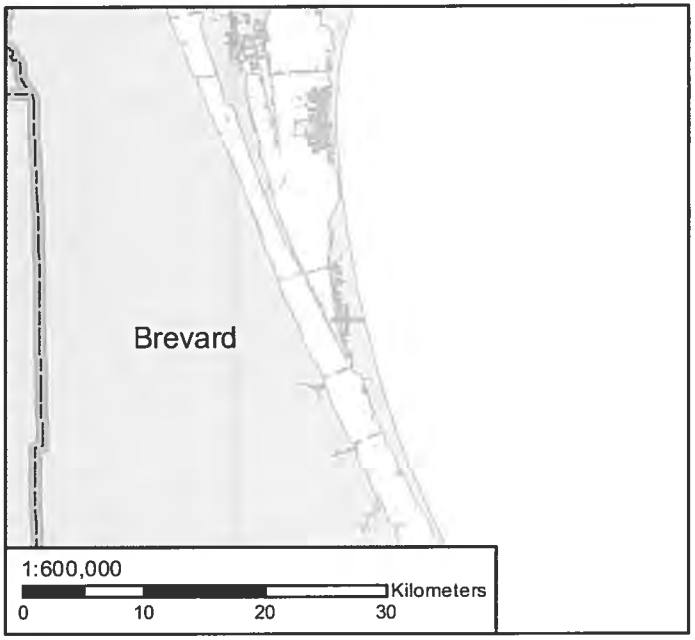
Edited by:

TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1511

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1507b Map Created 4/21/2016



Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17225°N **Longitude:** -80.60347°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

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Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

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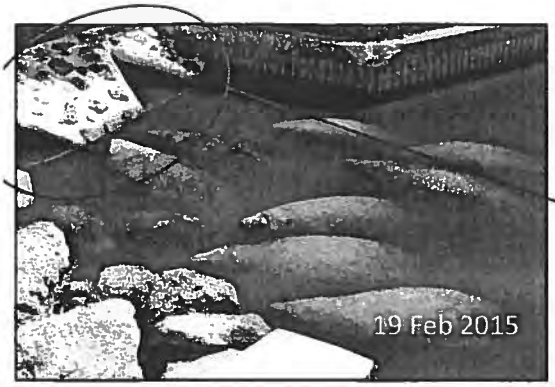


48"

PIPE #1

PIPE #2

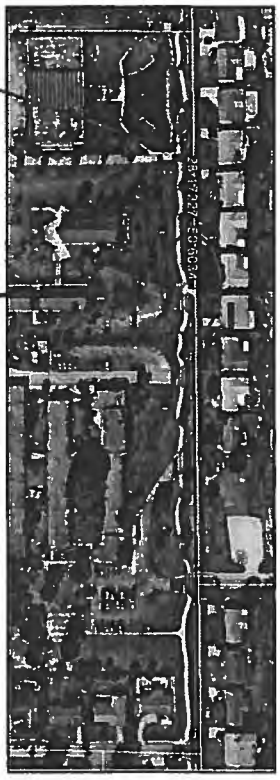
To baffle box and pond

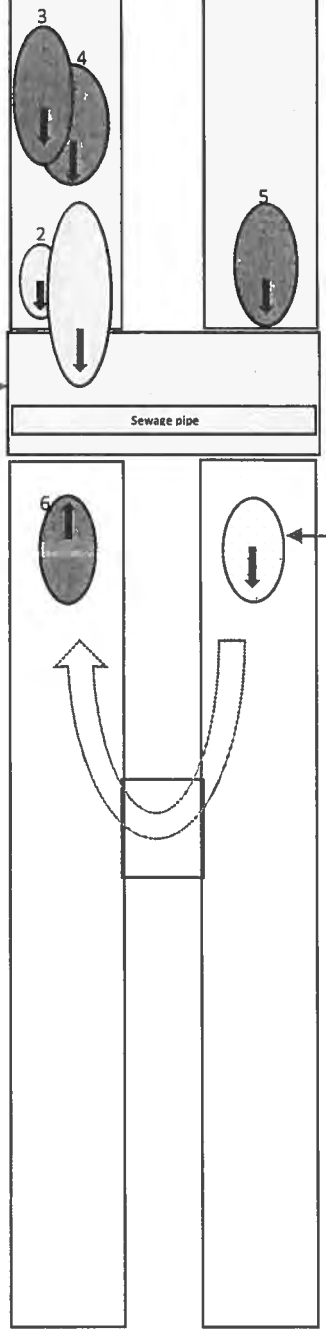
SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT





Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

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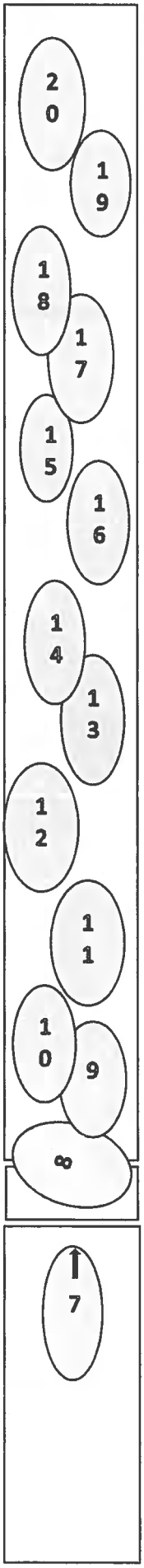
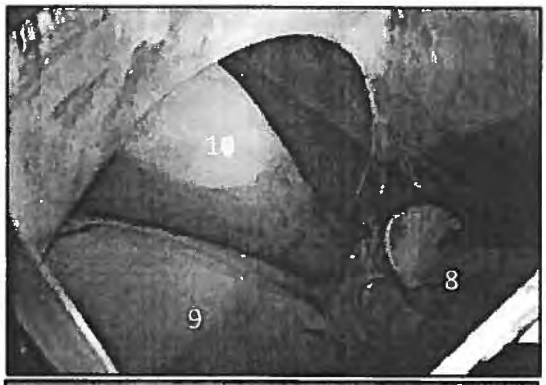


Section 2

Direction manatees # 8-20 were facing

WEST



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Drainage Pipes
Point of Mom Calf Extraction
Pipe was cut animals 7-19
City Hall Pond
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

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Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

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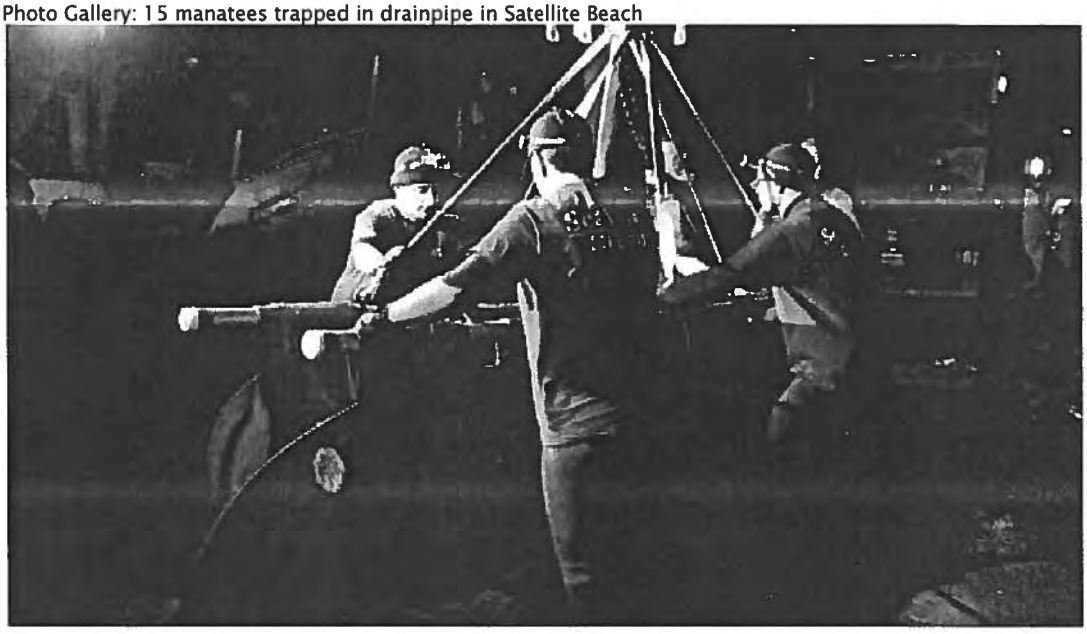
It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

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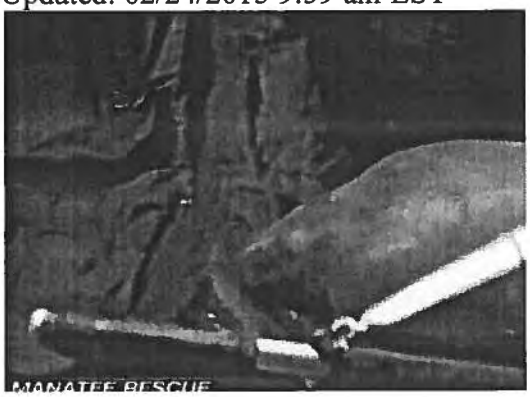


ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1512

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1512 Facility ID: SWFTm1508B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Unknown Length: 215 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17229° N Longitude (Decimal Degrees): -080.60341° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Manually maneuvered and worked out of the pipe back into pond

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and

	photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was

removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF

Tuesday, 24 February 2015	animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

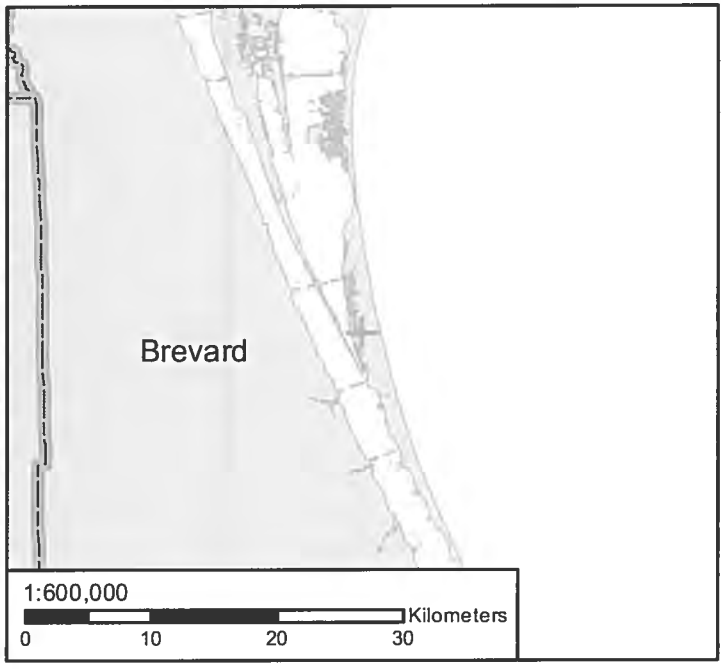
Edited by:

TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1512

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1508b Map Created 4/21/2016



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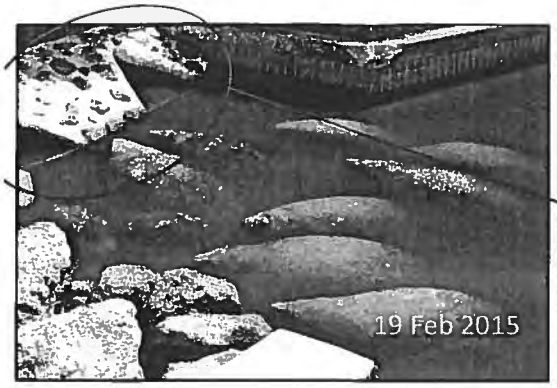

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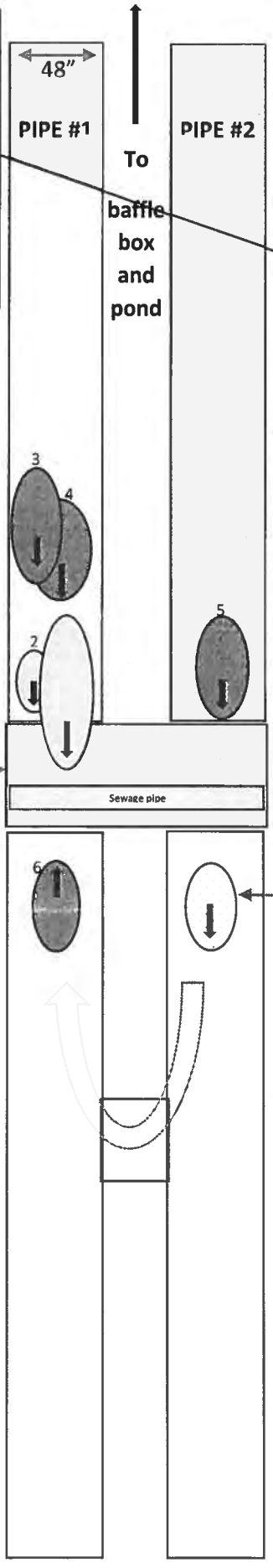

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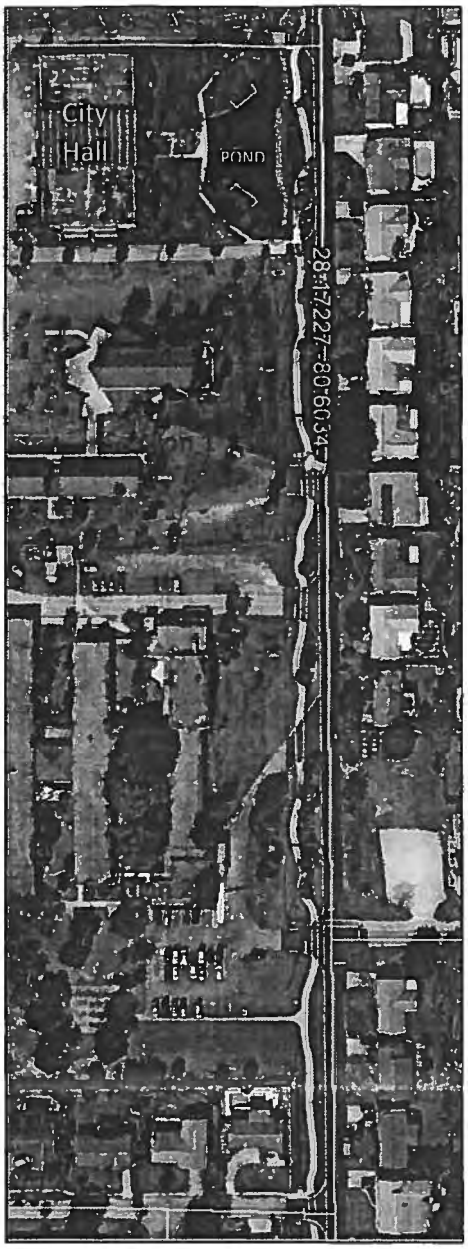

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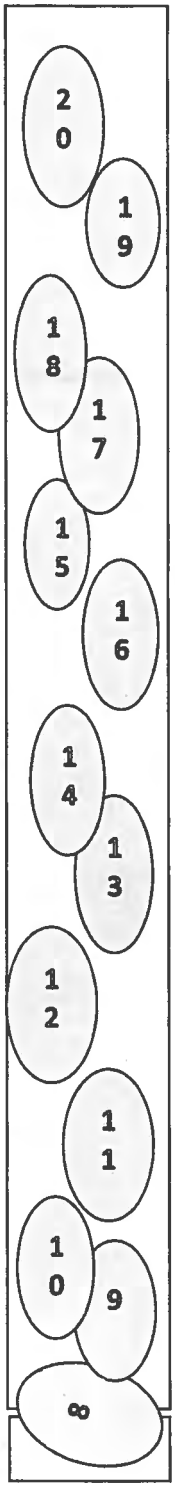

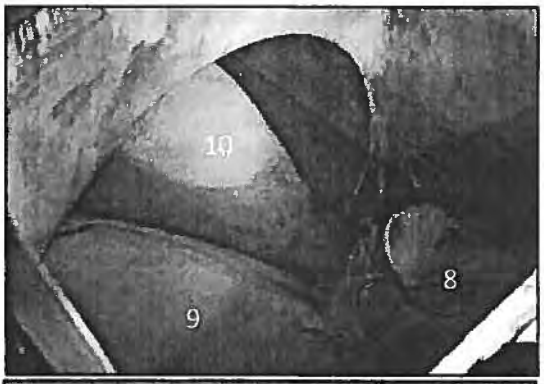

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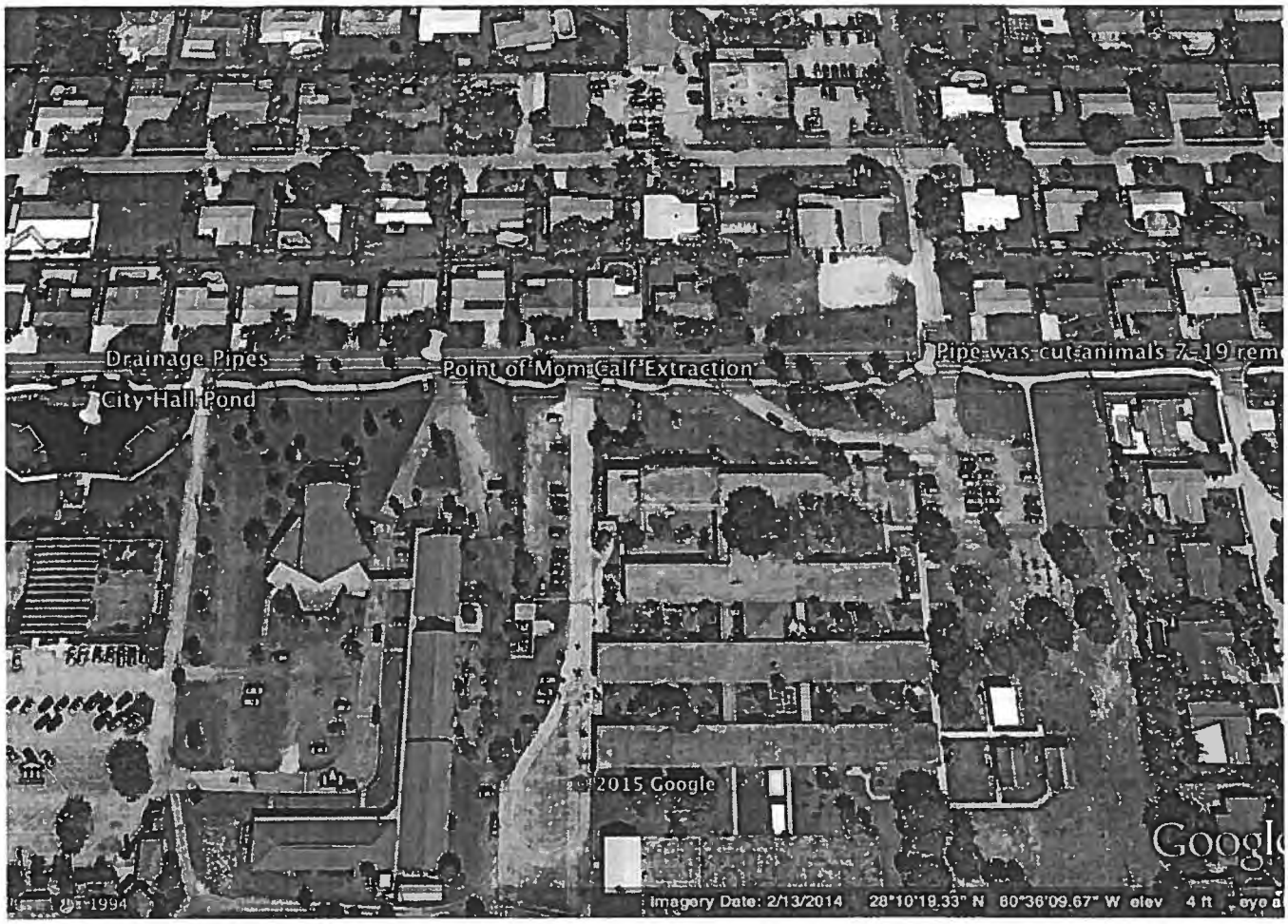

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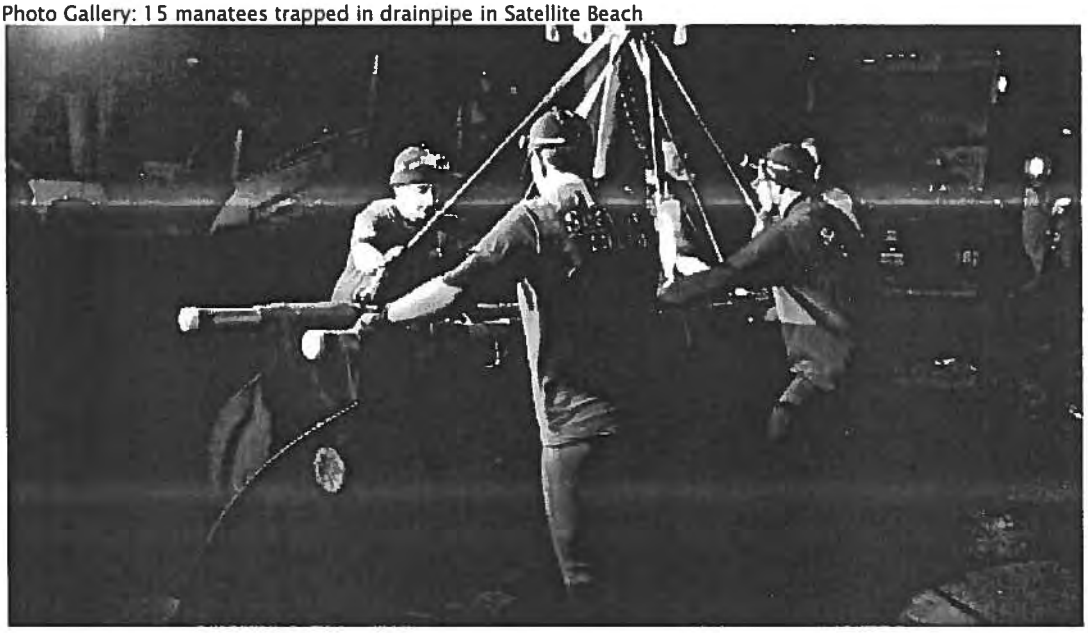

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Updated: 02/24/2015 9:59 am EST

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Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. Key

Rescue Report

REC1513

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1513 Facility ID: SWFTm1509B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Unknown Length: 235 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17226° N Longitude (Decimal Degrees): -080.60337° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 75 m E of baffle box, 125 m NE of satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Swam out on its own once others were cleared from the pipe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and

	photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was

removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF

Tuesday, 24 February 2015	animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

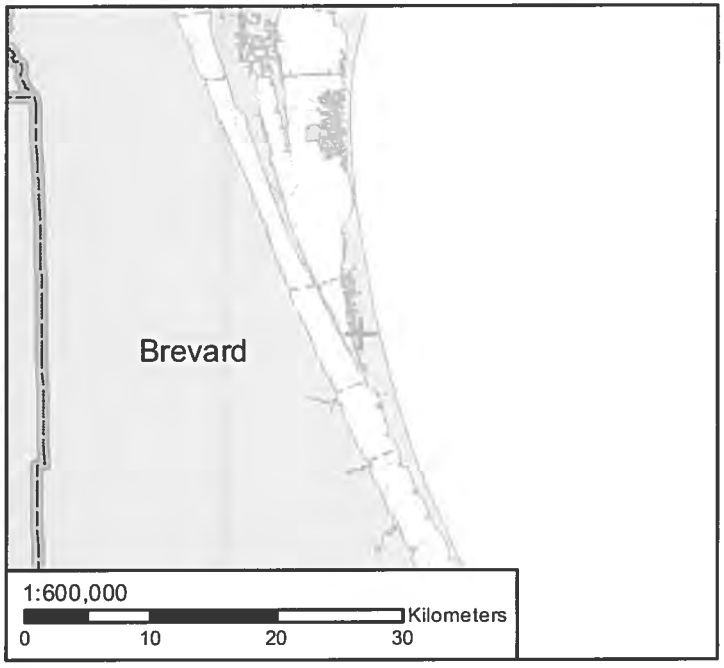
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1513

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1509b Map Created 4/21/2016



Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 75 m E of baffle box, 125 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17226°N **Longitude:** -80.60337°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

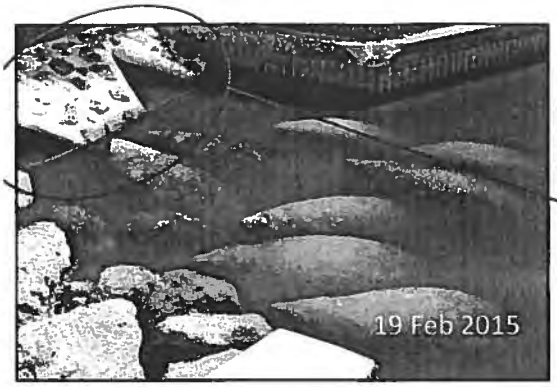
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



48"

PIPE #1

PIPE #2

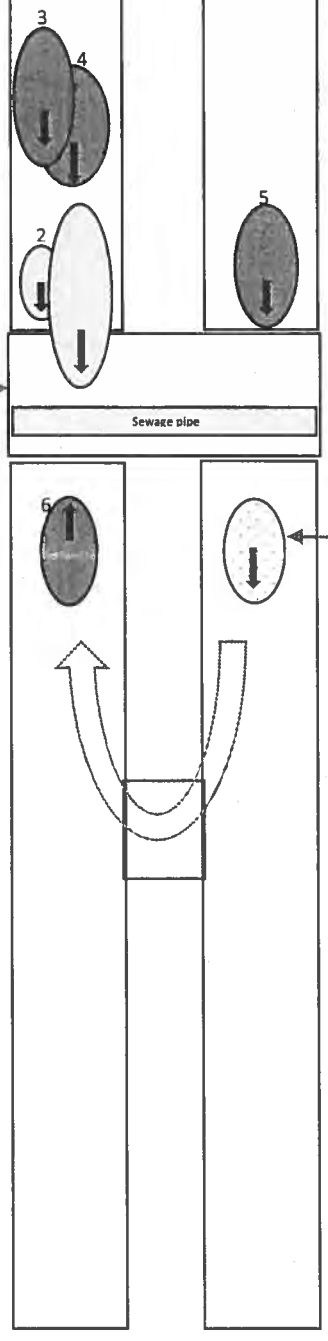
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT



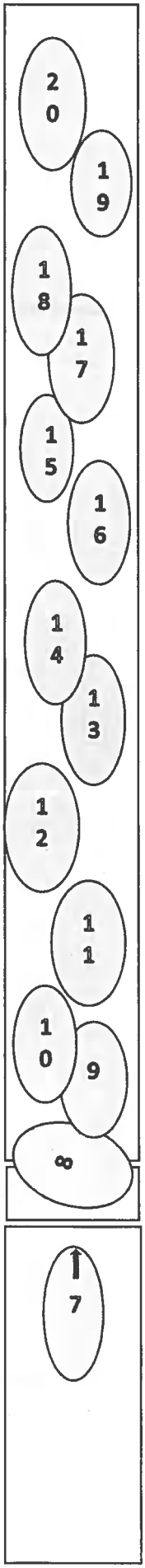
Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

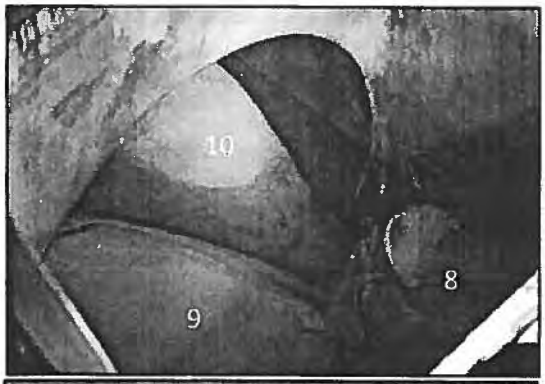
48"



Section 2

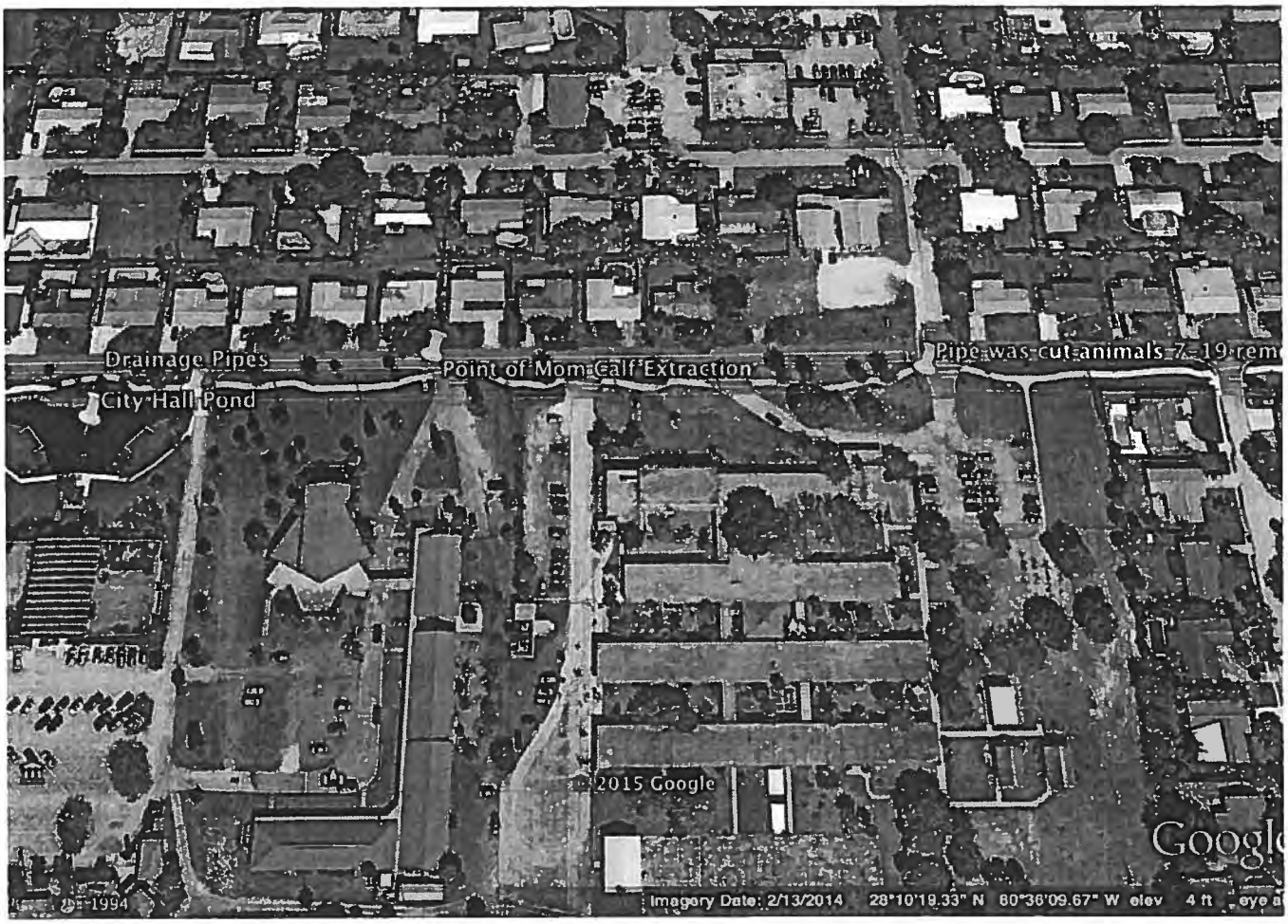
Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
Point of Mom Calf Extraction
Pipe was cut animals 7-19
City Hall Pond
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

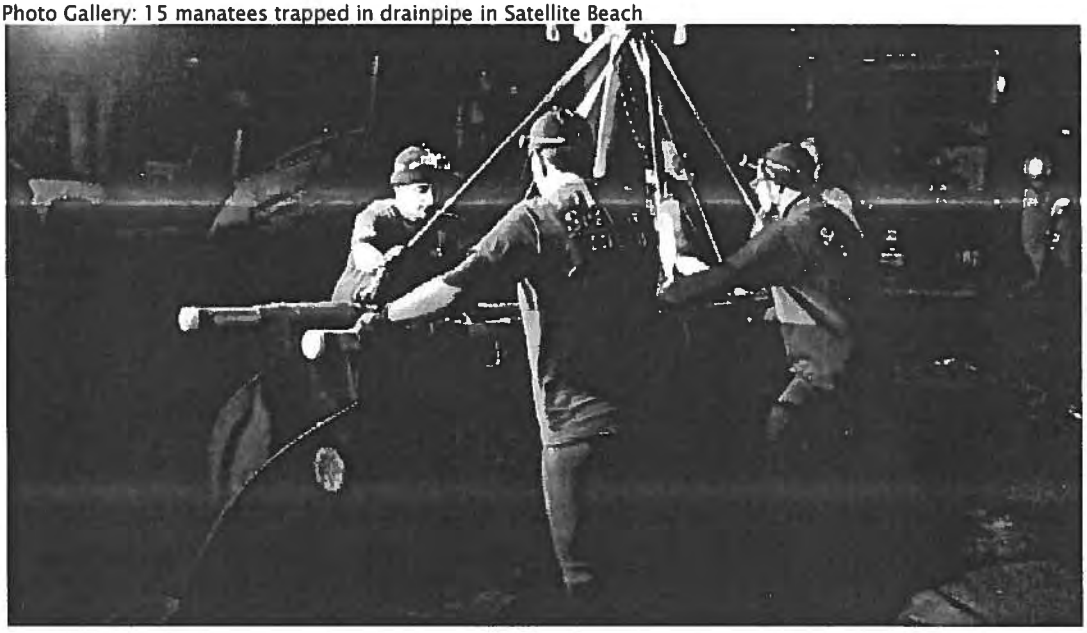
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

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Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

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Asst. + Rel

Rescue Report

REC1514

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1514 Facility ID: SWFTm1510B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 215 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1723° N Longitude (Decimal Degrees): -080.60177° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe.

REASON FOR RESCUE

Check one of the following:

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☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
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Describe: Stuck in storm water drain pipe along with 19 other manatees

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some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit

Tuesday, 24 February 2015	consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

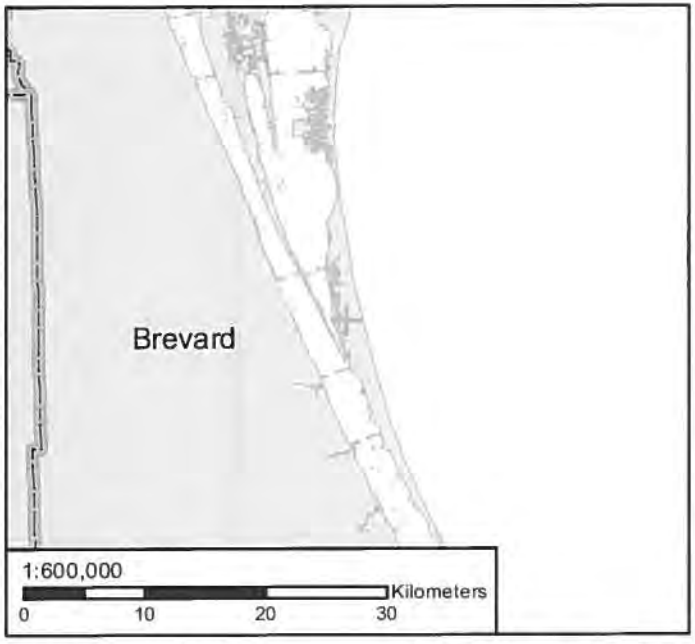
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1514

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1510b Map Created 4/21/2016



Locality Description:
in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.1723°N **Longitude:** -80.60177°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

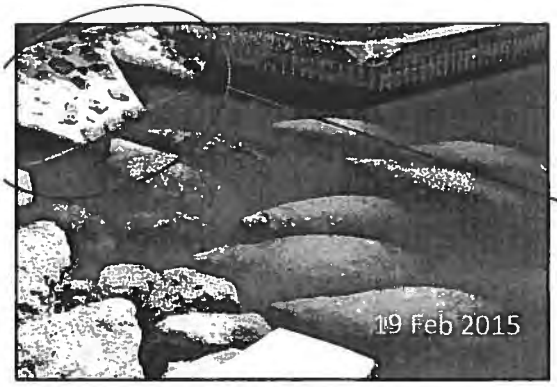
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

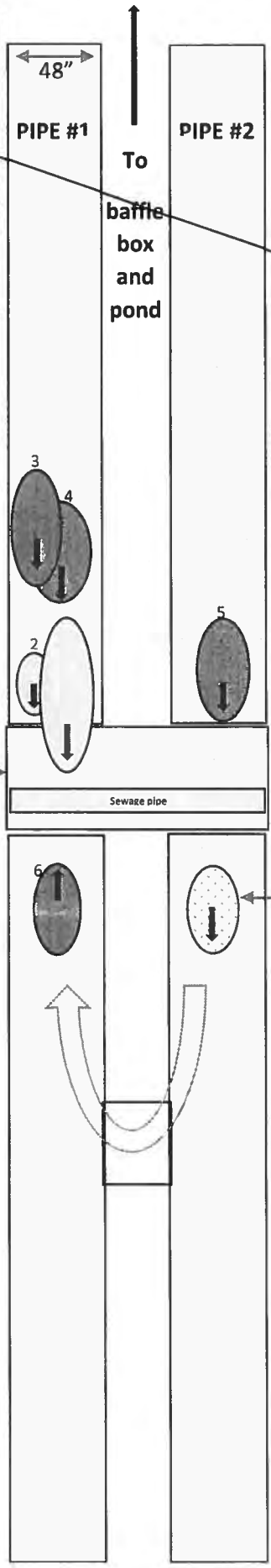
Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).





SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

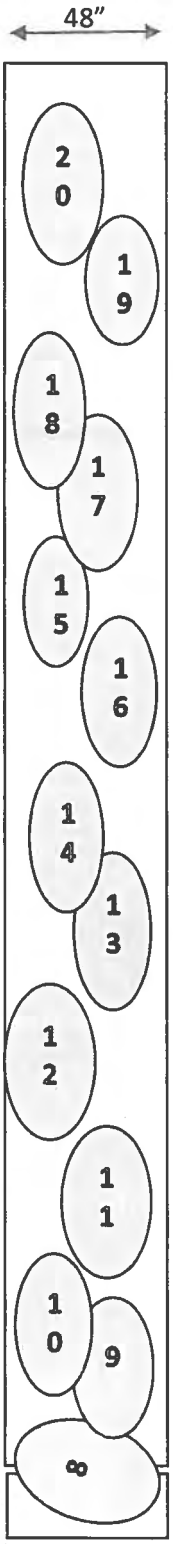
DRAFT

Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

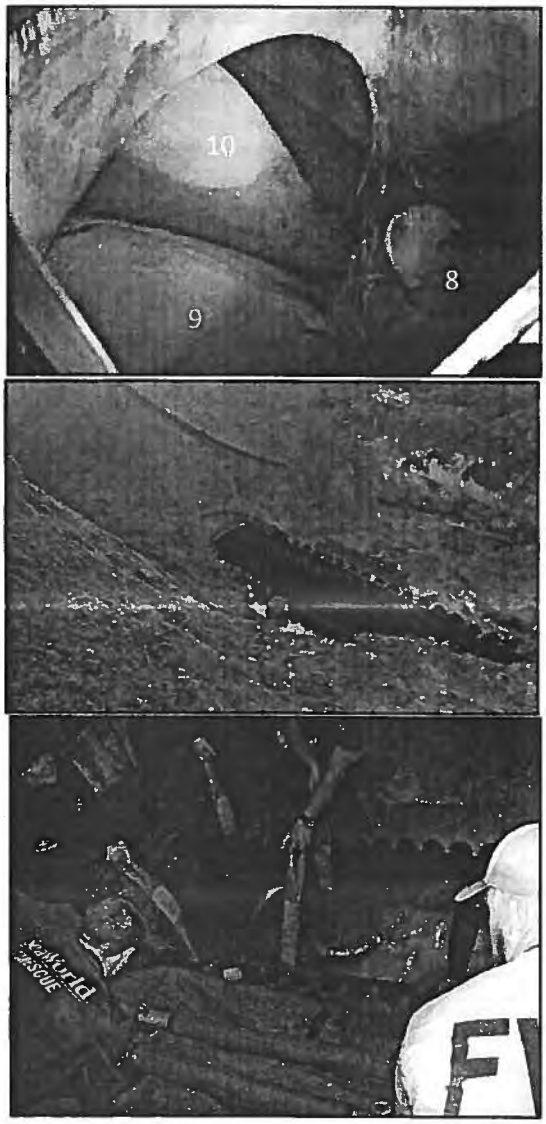
Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.



Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
remo
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

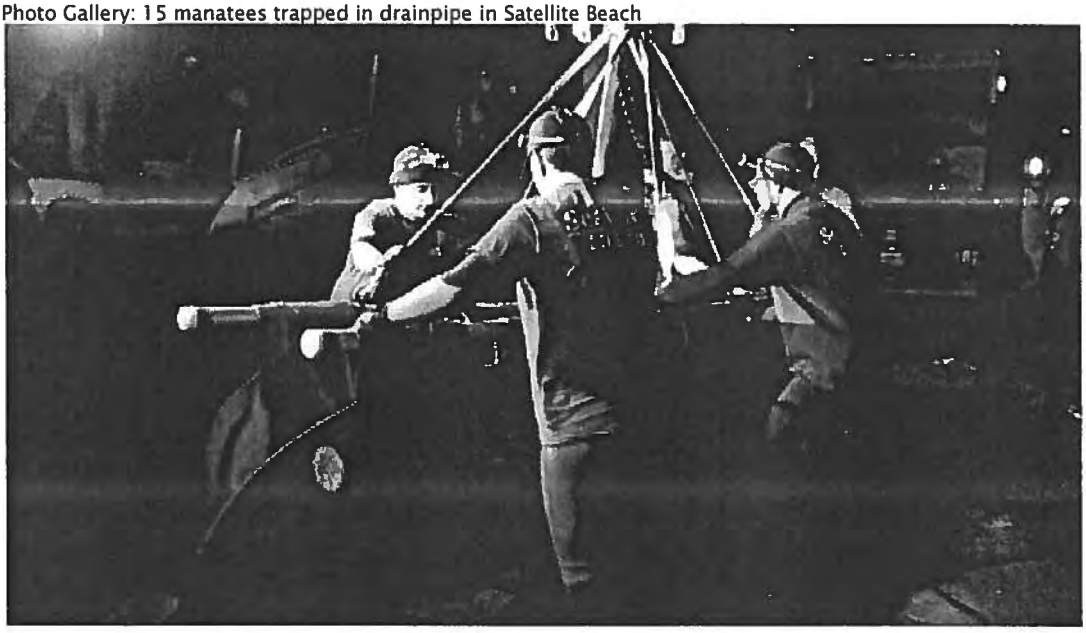
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

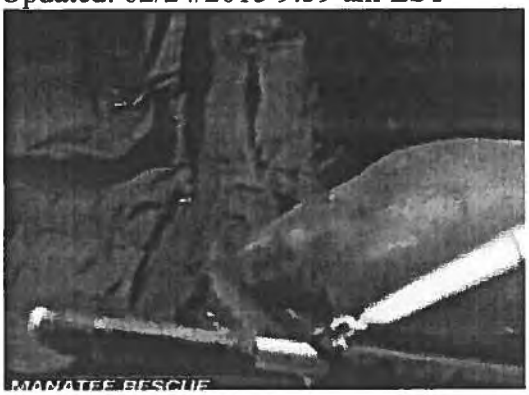
It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST



ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. of Kel

Rescue Report

REC1515

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1515 Facility ID: SWFTm1511B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 293 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60179° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

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Blackwater Diving Company Divers

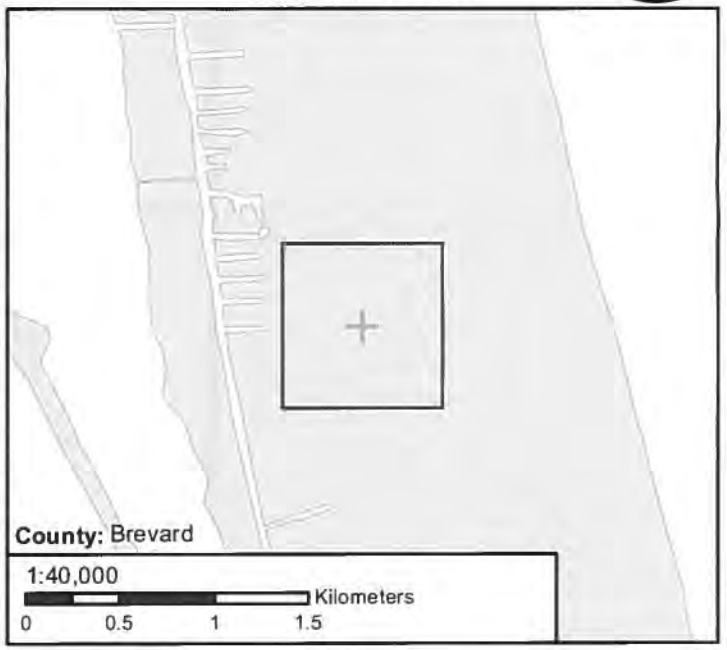
Edited by:

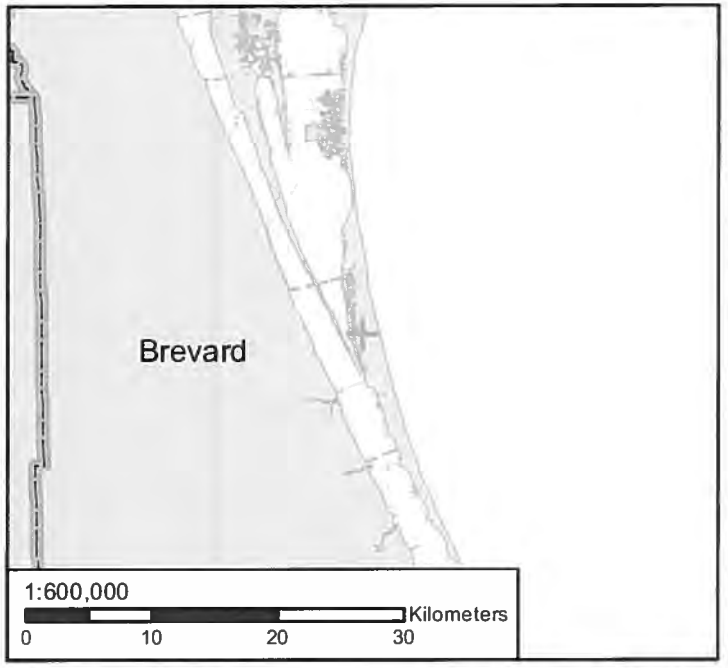
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1515

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1511b Map Created 4/21/2016





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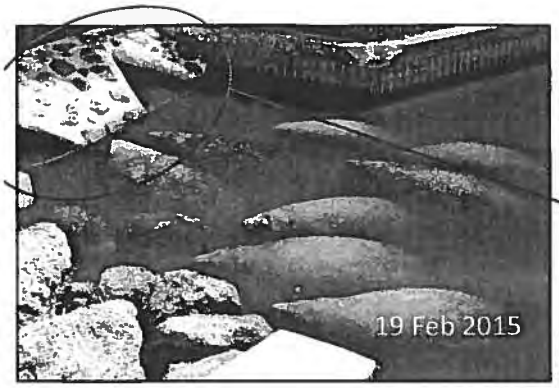
Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

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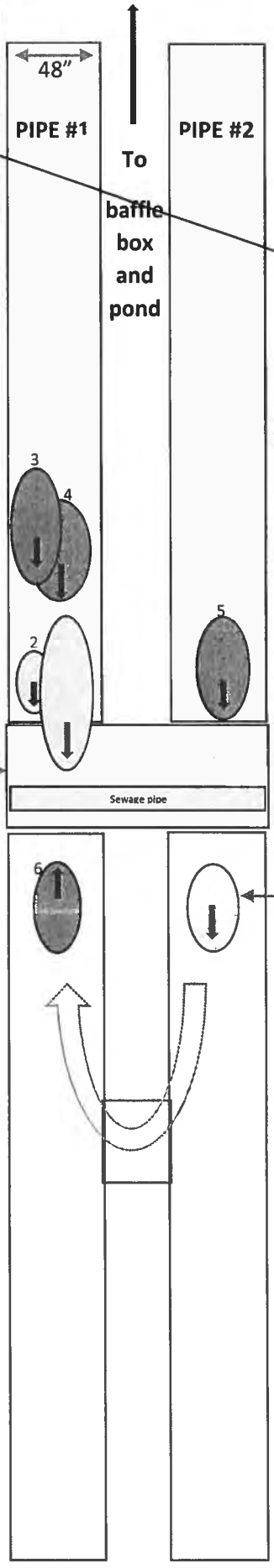

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NOT TO SCALE

DRAFT

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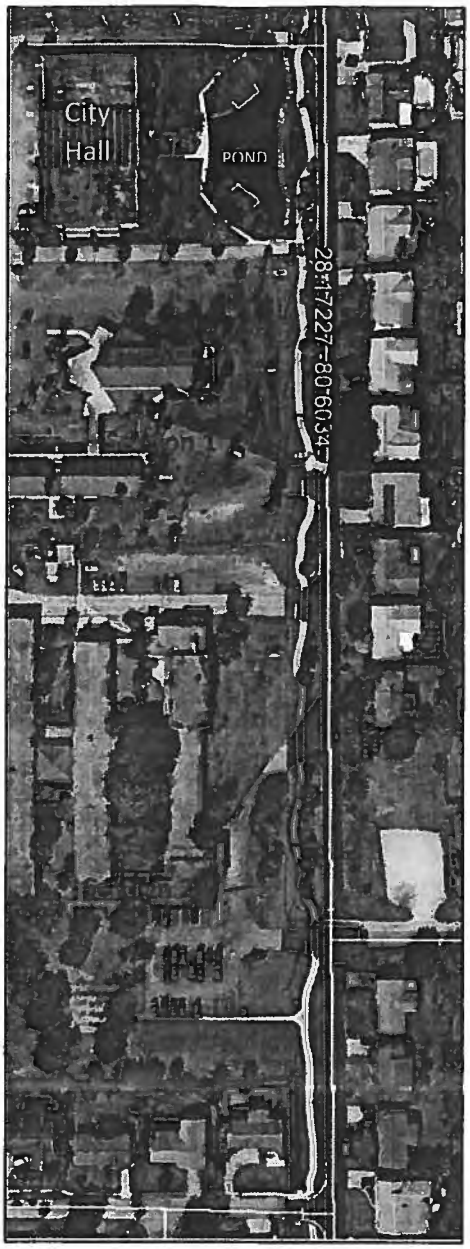

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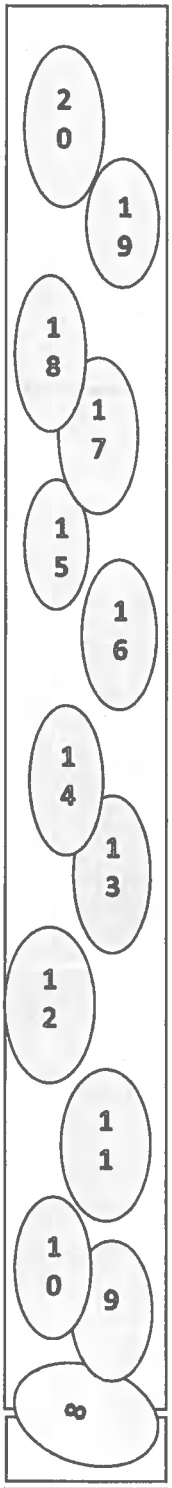
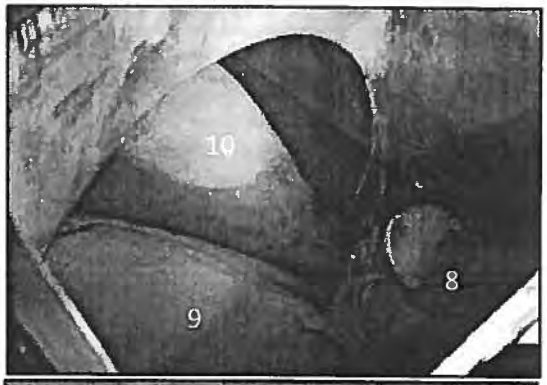


Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
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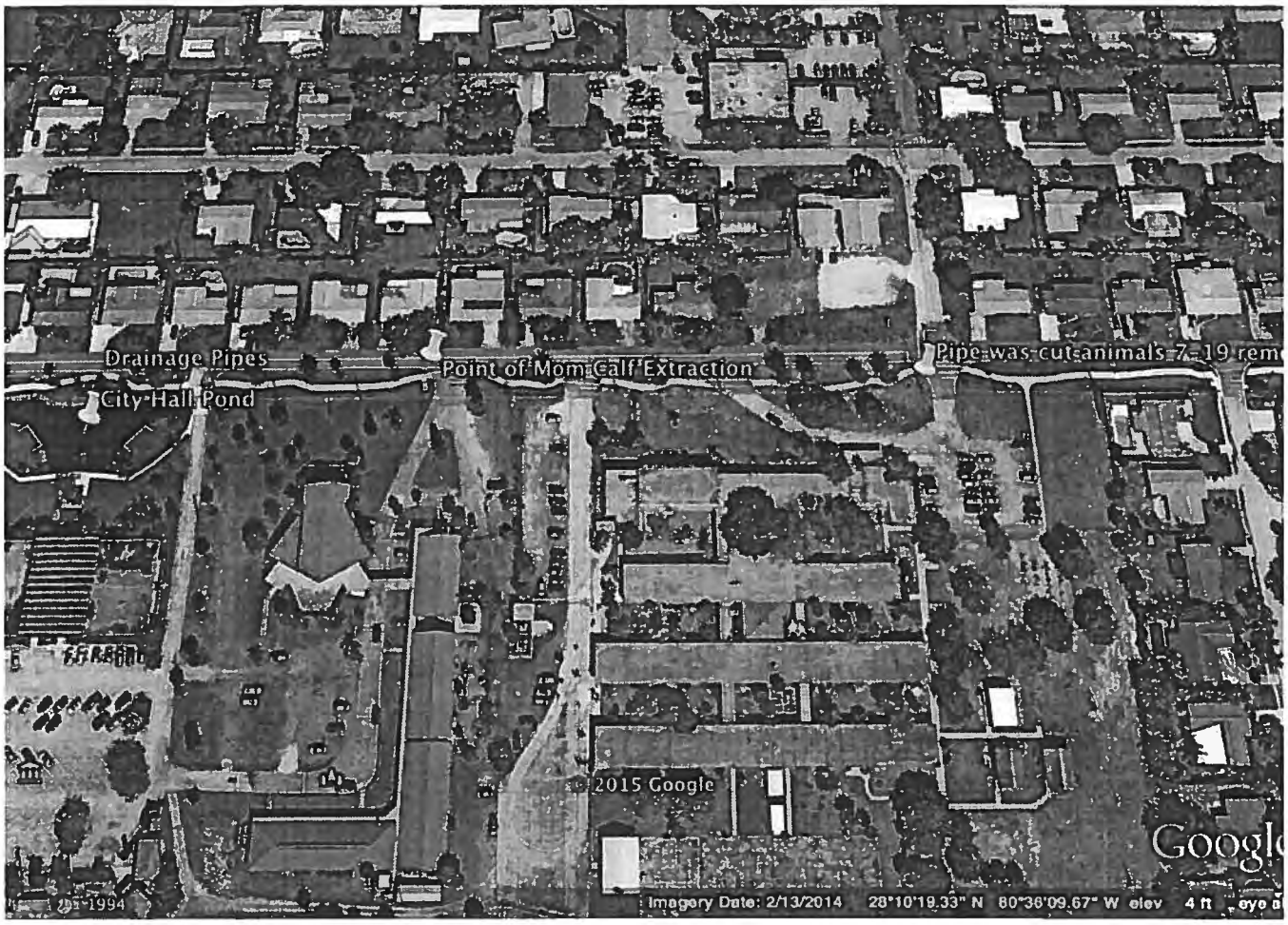

Feb. 23 - 24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

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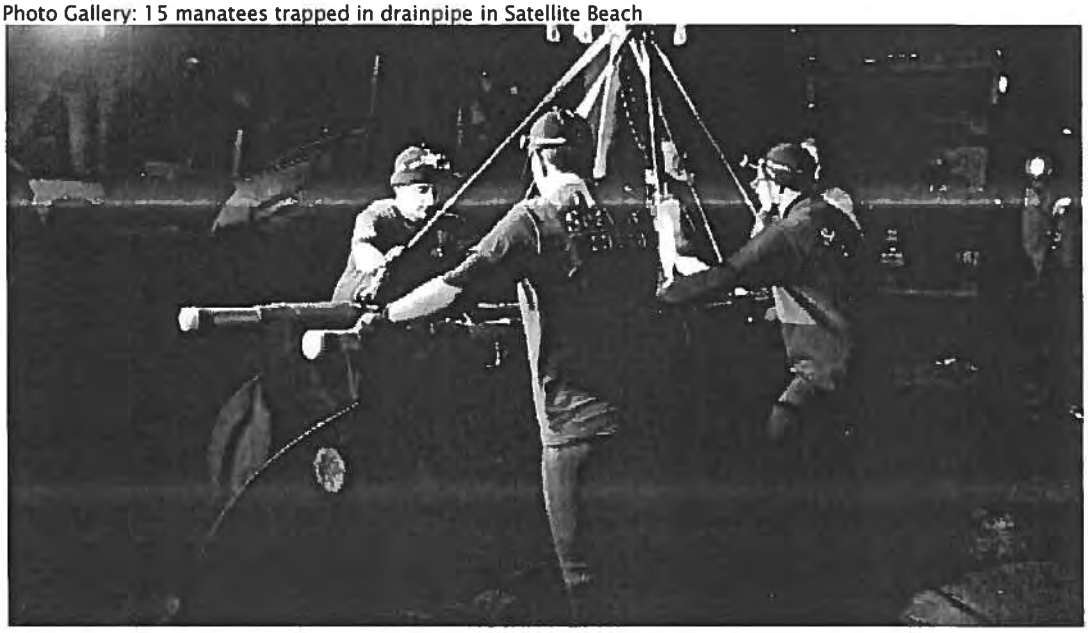
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Hsst. + Kel

Rescue Report

REC1516

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1516 Facility ID: SWFTm1512B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 235 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60181° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☒ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

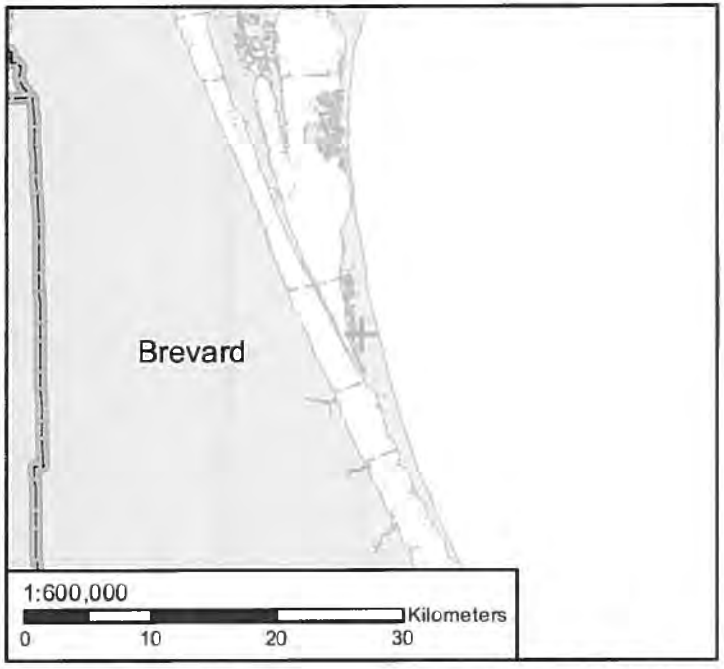
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1516

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1512b Map Created 4/21/2016



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in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

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Communications Office
Fish and Wildlife Research Institute
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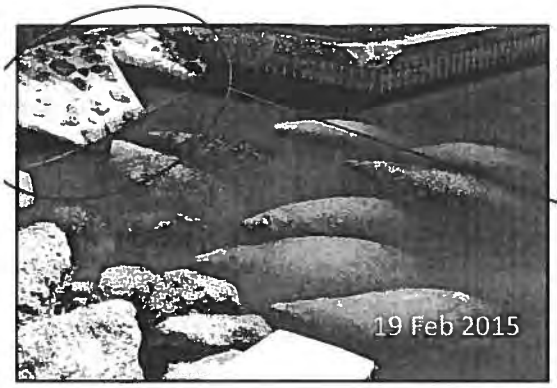

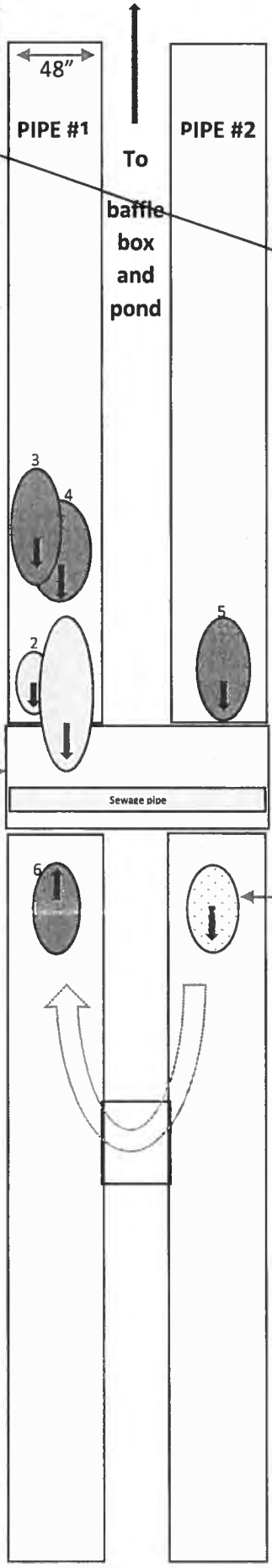

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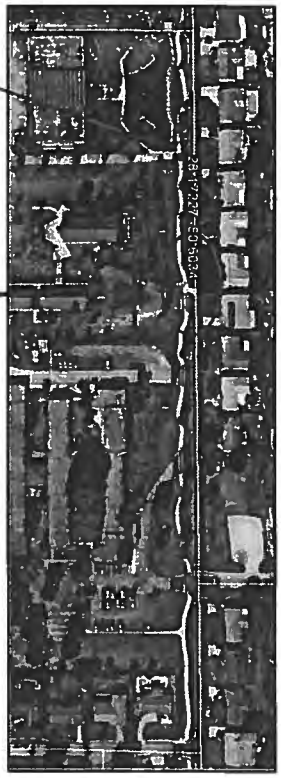

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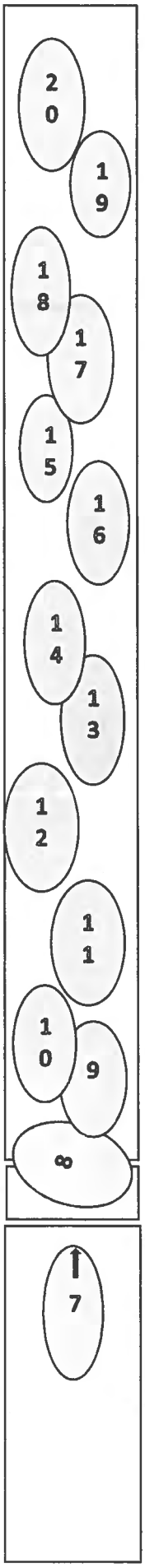

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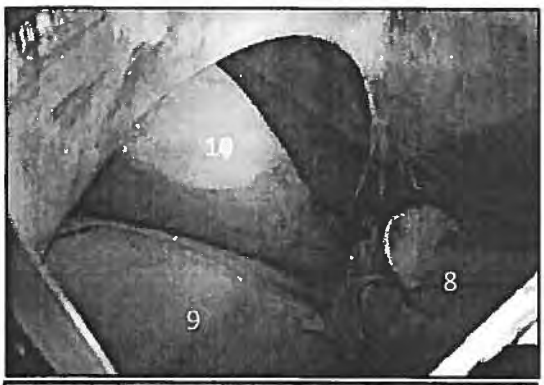

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Point of Mom/Calf Extraction
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© 2015 Google
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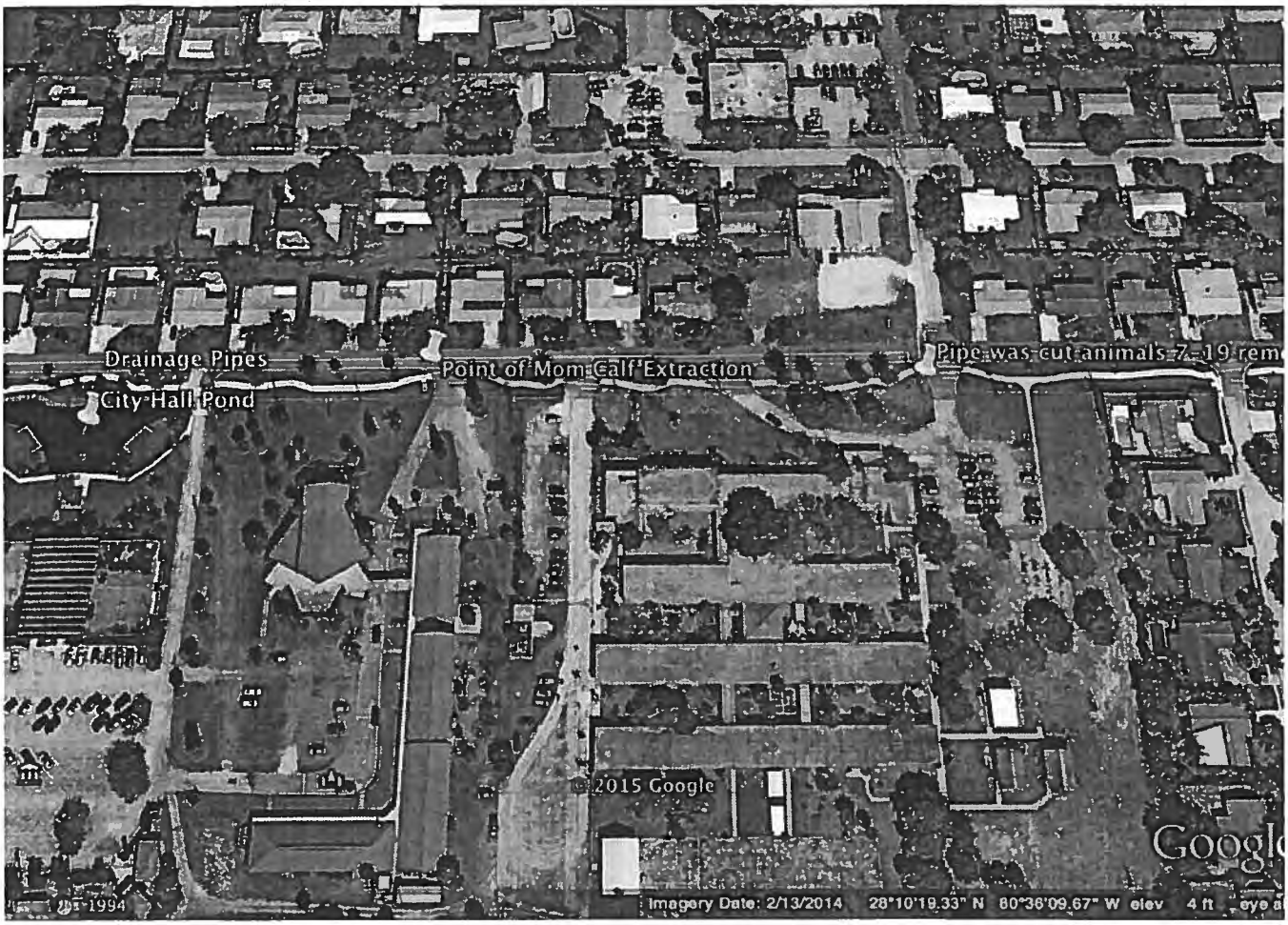

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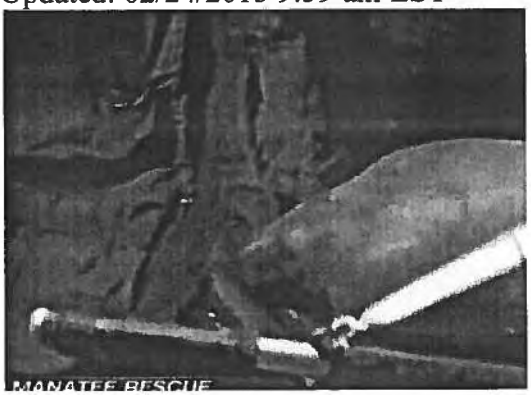

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The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1517

Entanglement

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Human (Culvert)

Rescue ID: REC1517 Facility ID: SWFTm1513B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 231 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60184° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☒ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

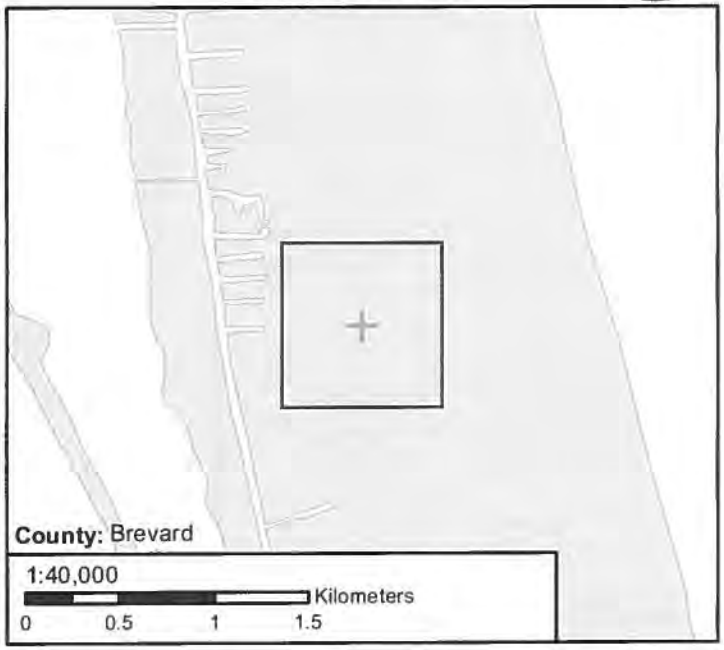
Edited by:

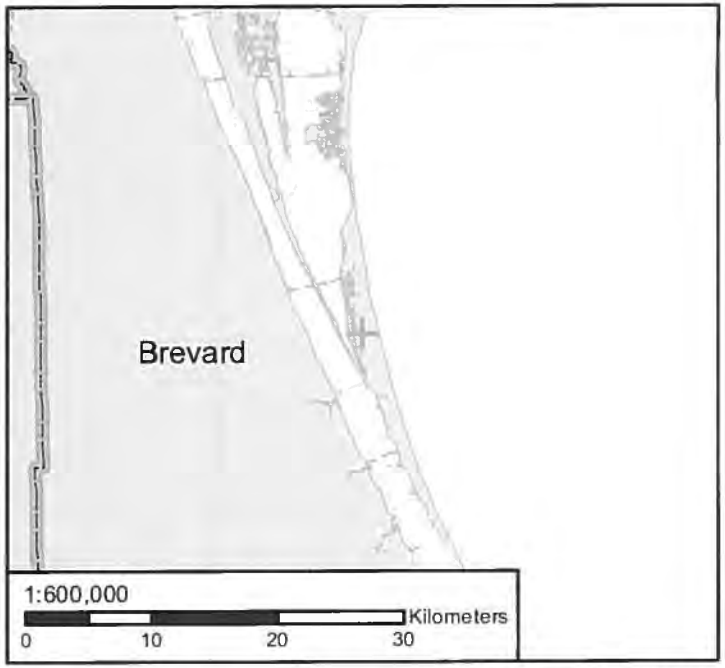
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1517

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1513b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60184°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

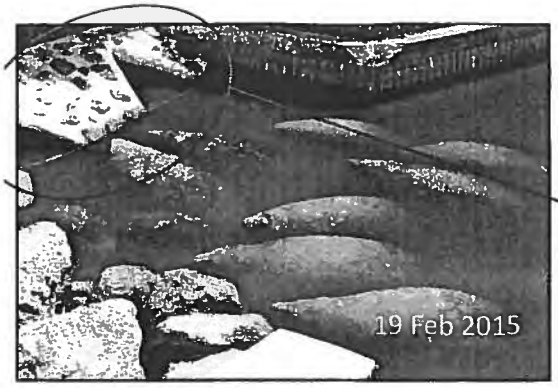
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

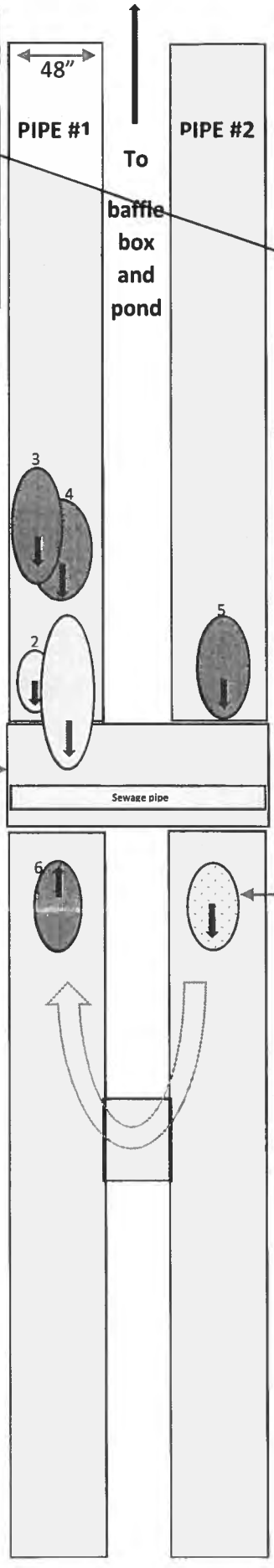
To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



SECTION 1 EXTRACTIONS

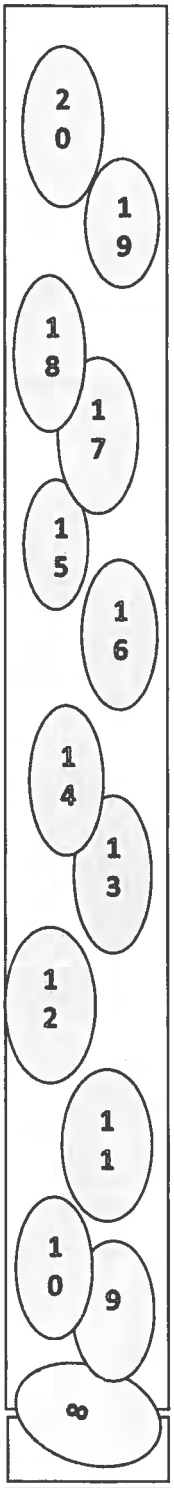
WEST

NOT TO SCALE

DRAFT

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

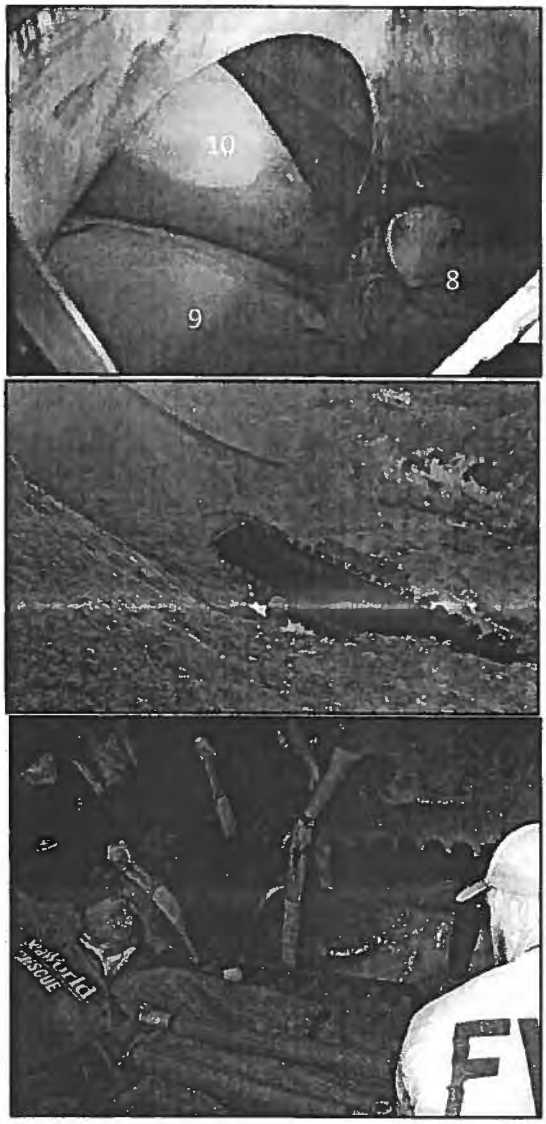
48"



Section 2

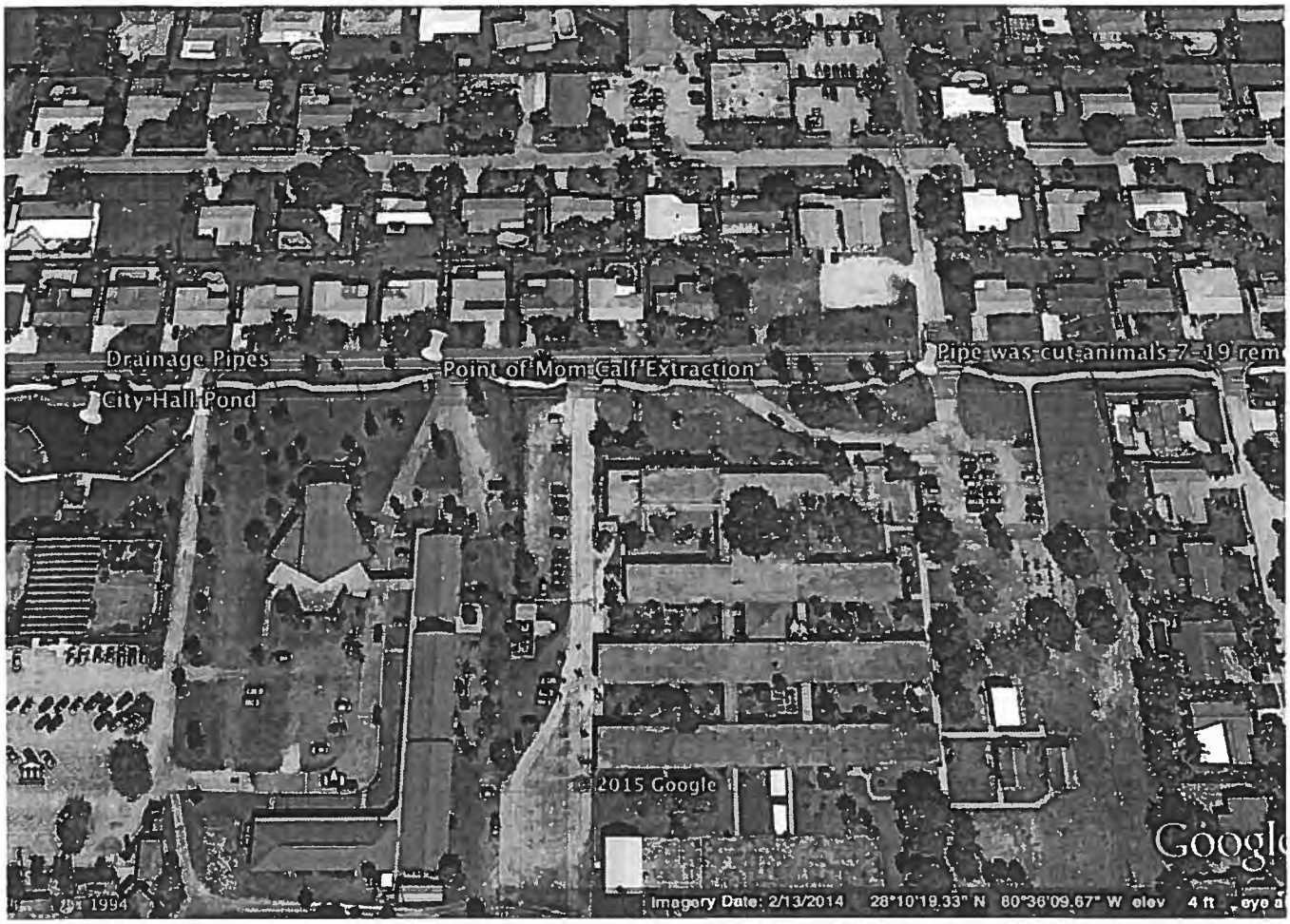
Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7 - 19
FIRE
© 2015 Google
Go
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

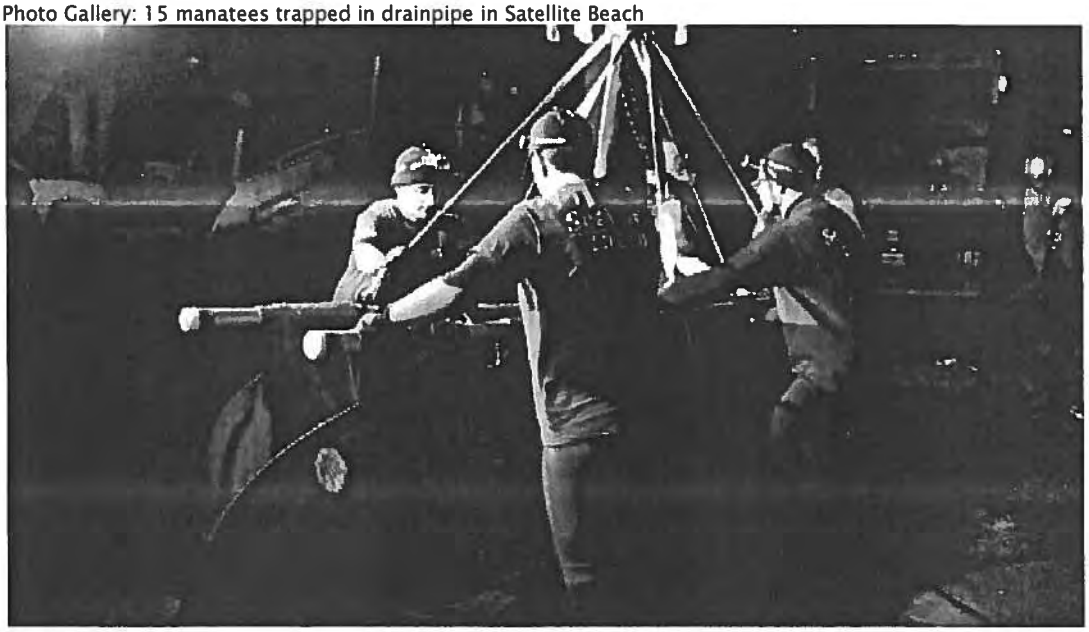
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

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Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

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(Additional reporting by Curtis Skinner; Editing by Louise Ireland

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Asst. + Rel

Rescue Report

REC1518

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1518 Facility ID: SWFTm1514B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Unknown Length: 240 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -80.60186° W

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Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

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While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work

some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit

	consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown
Tuesday, **24 February 2015**	up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

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SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

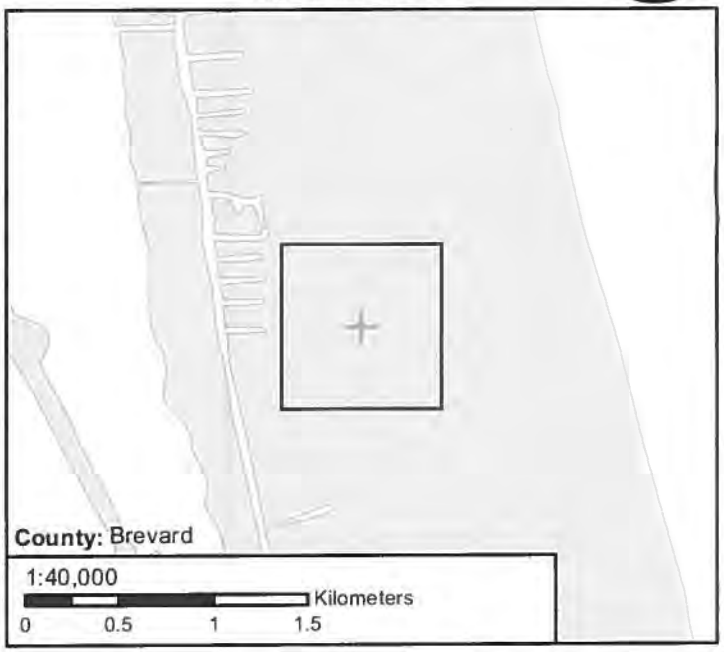
Edited by:

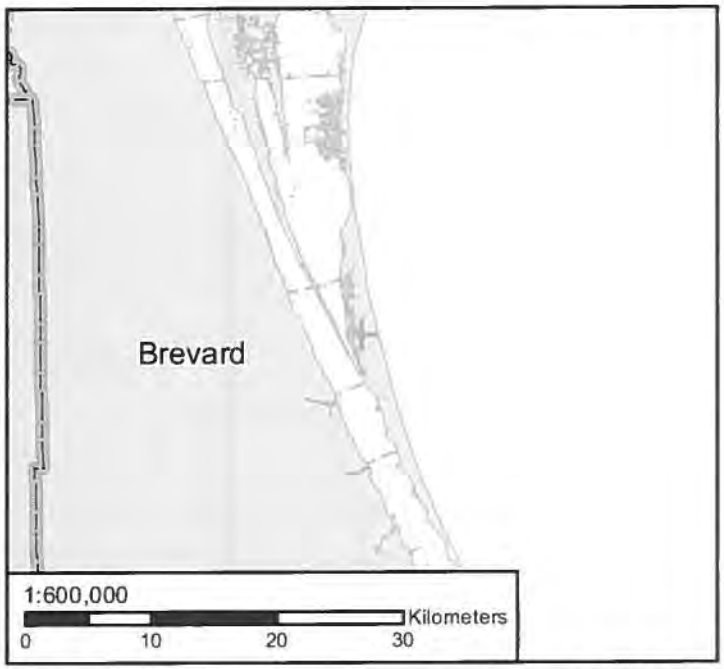
TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1518

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1514b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60186°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

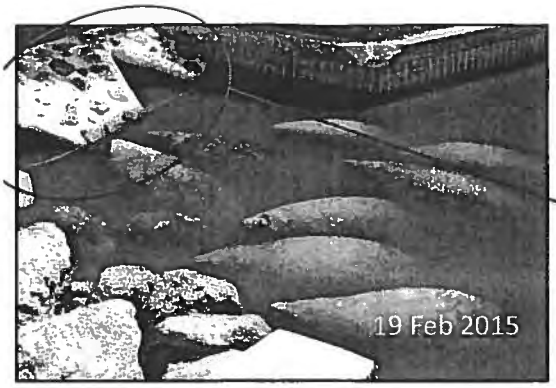
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



48"

PIPE #1

PIPE #2

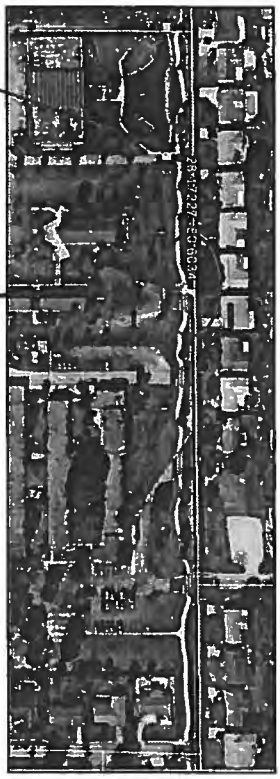
To baffle box and pond

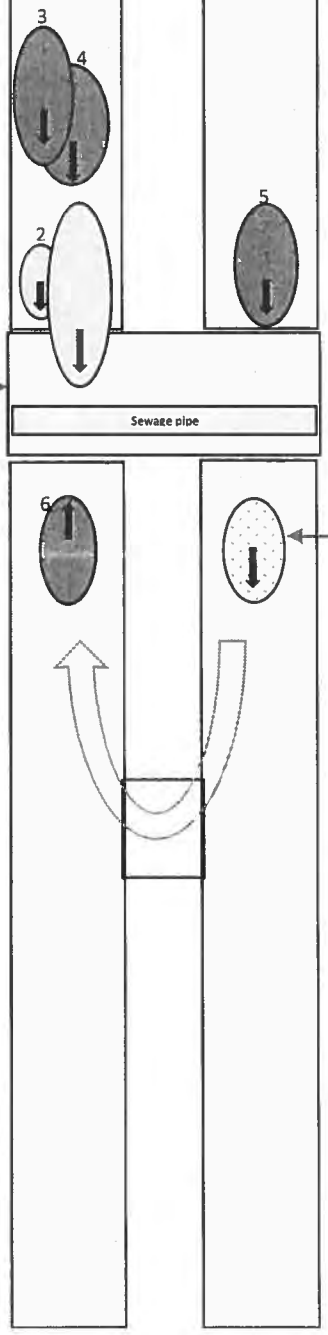
SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT





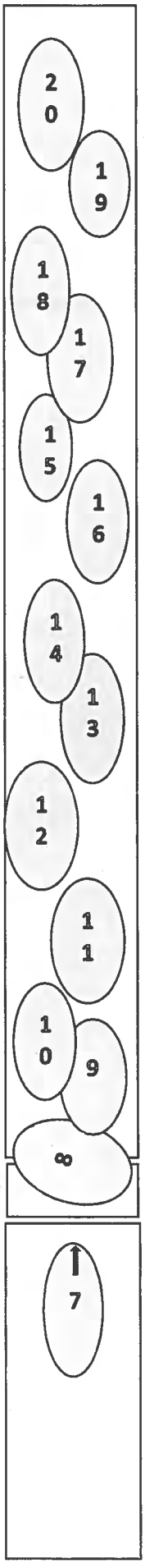
Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

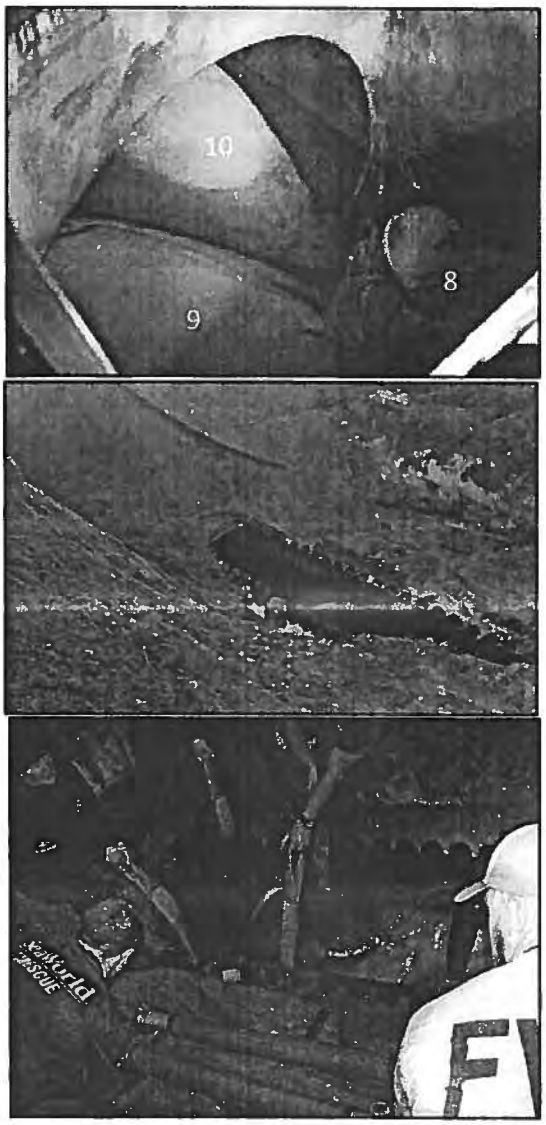
48"



Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

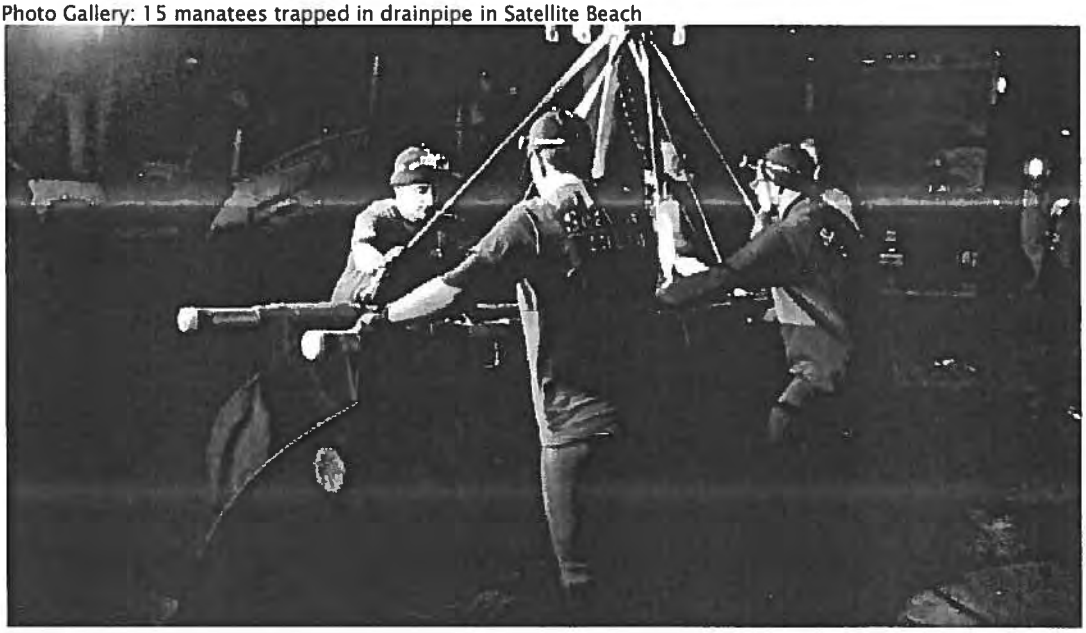
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1519

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1519 Facility ID: SWFTm1515B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 276 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60187° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

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Blackwater Diving Company Divers

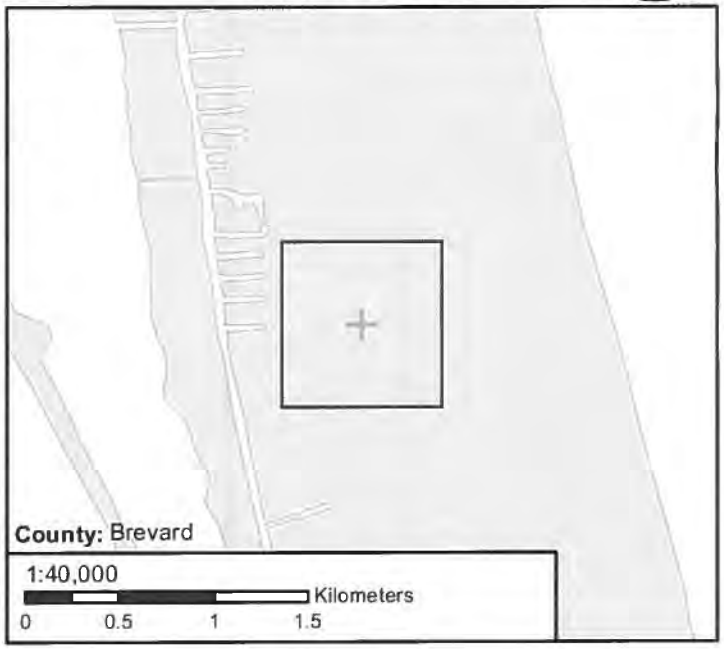
Edited by:

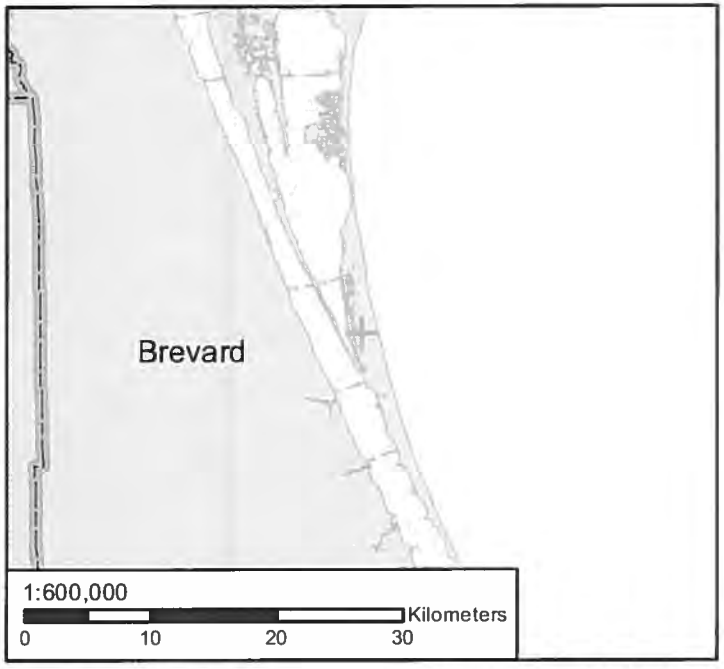
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1519

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1515b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60187°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

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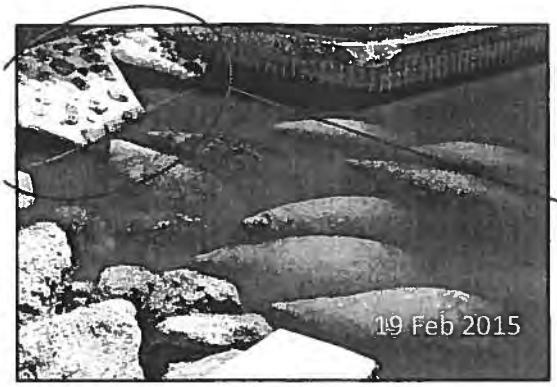


48"

PIPE #1

PIPE #2

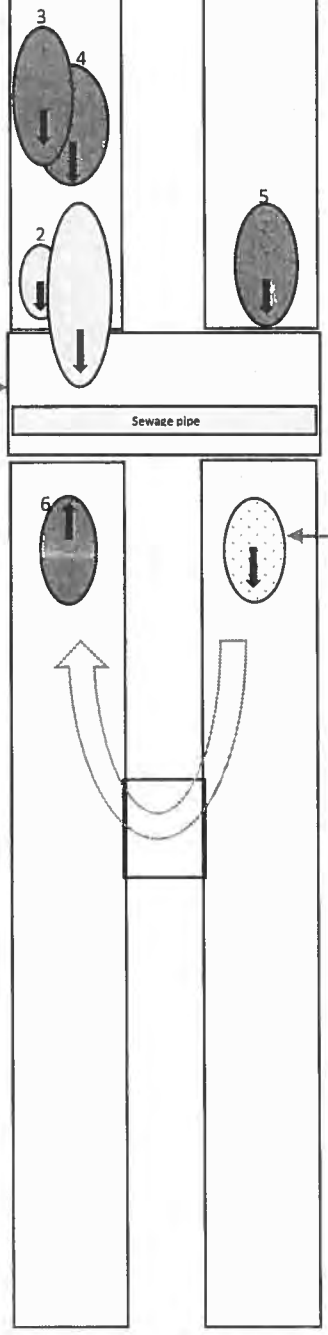
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

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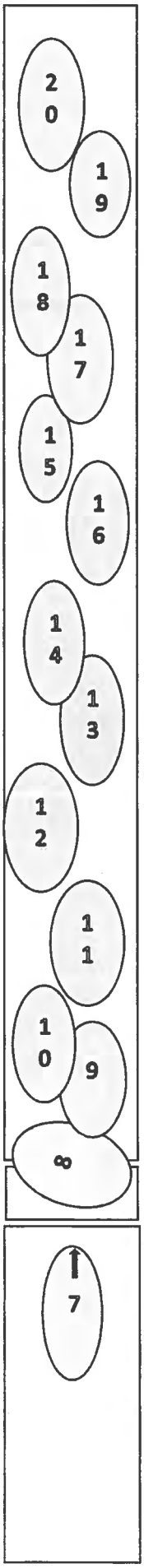
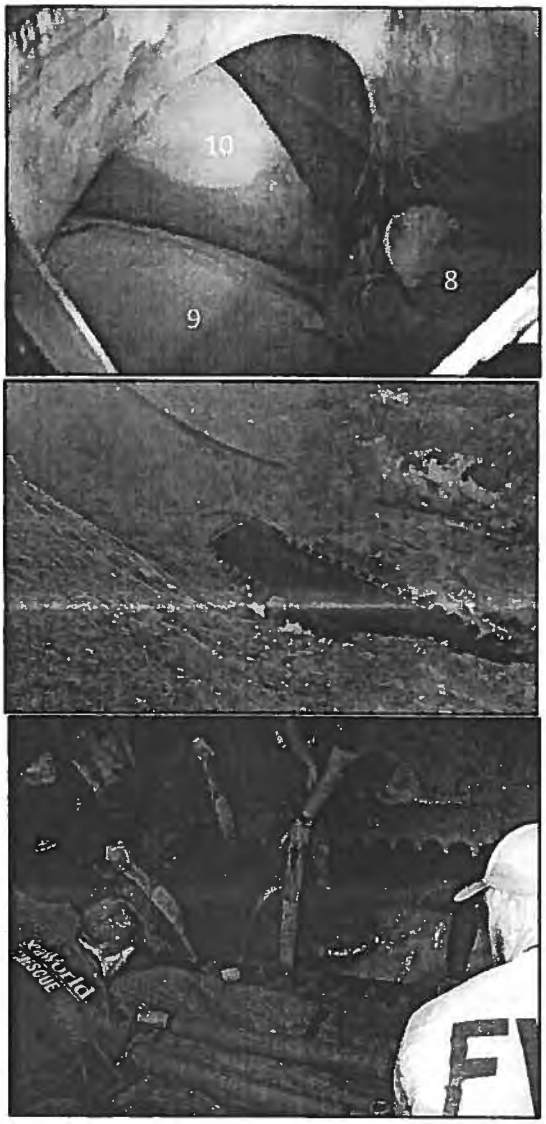


Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut-animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

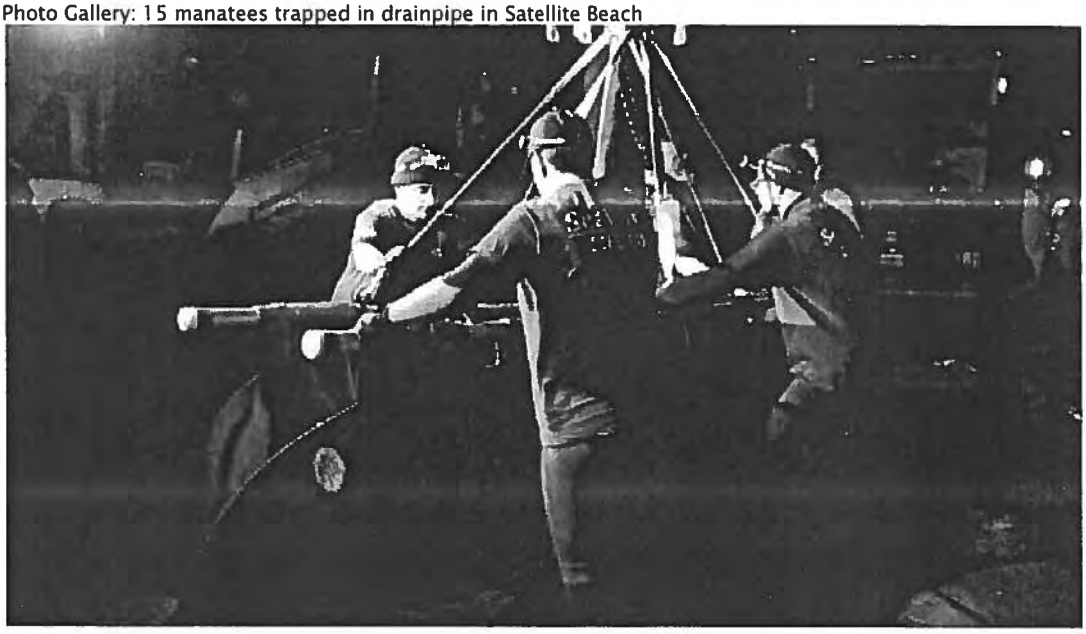
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

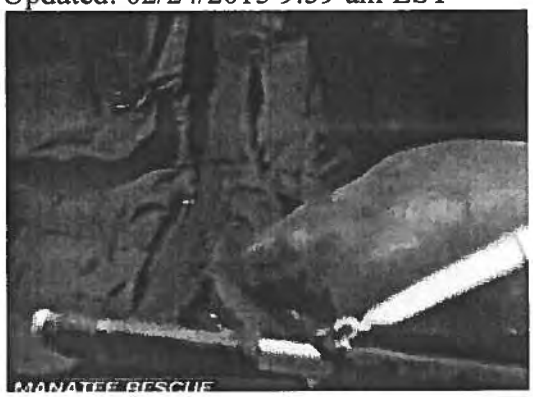
It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST



ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst + Rel

Rescue Report

REC1520

Entrapment Human (Culvert)

GENERAL

Date of Rescue: 23 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1520 Facility ID: SWFTm1516B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 243 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60188° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document

	animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, **22 February 2015**	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, **23 February 2015**	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work

some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit

Tuesday, 24 February 2015	consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

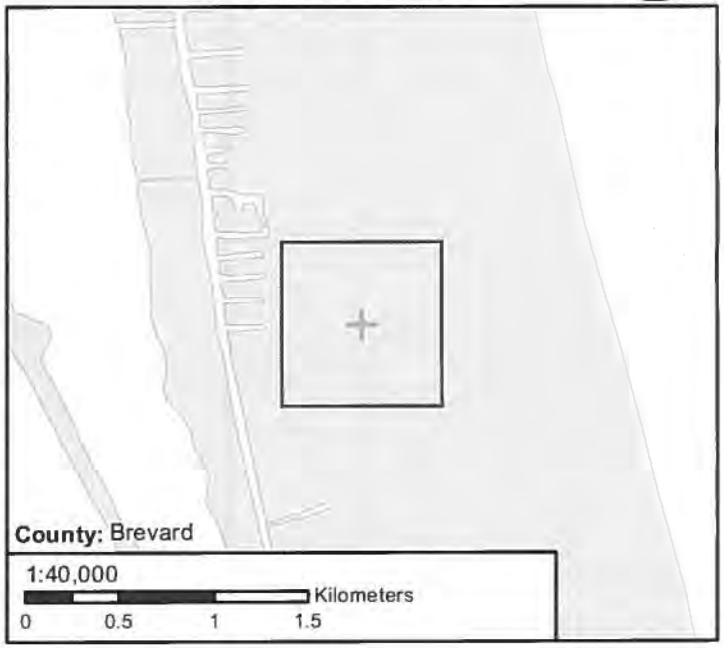
Edited by:

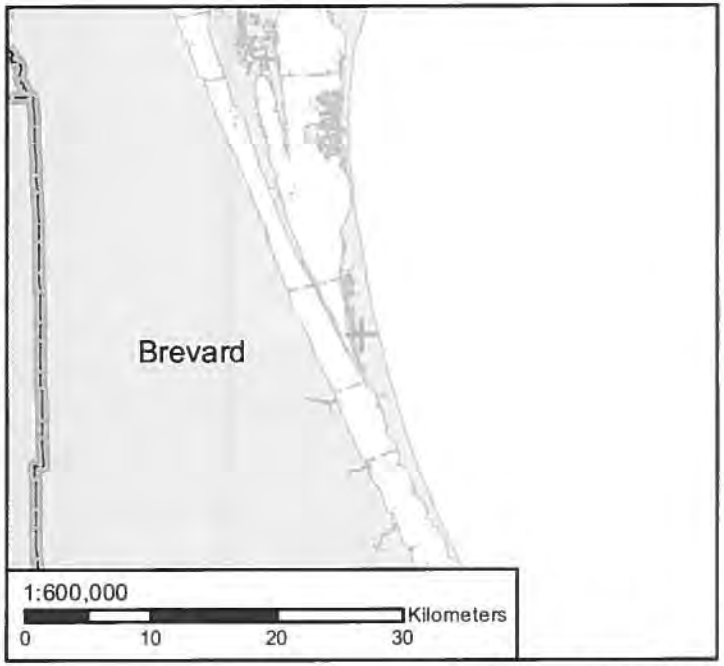
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1520

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1516b Map Created 4/21/2016





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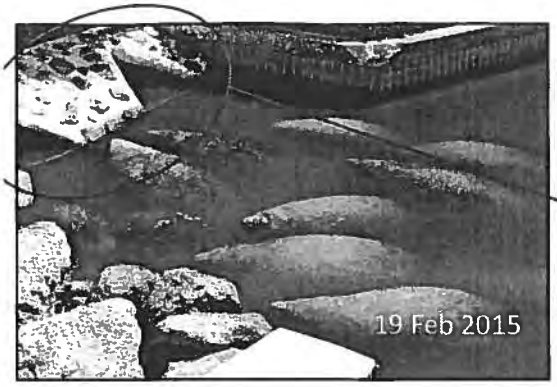

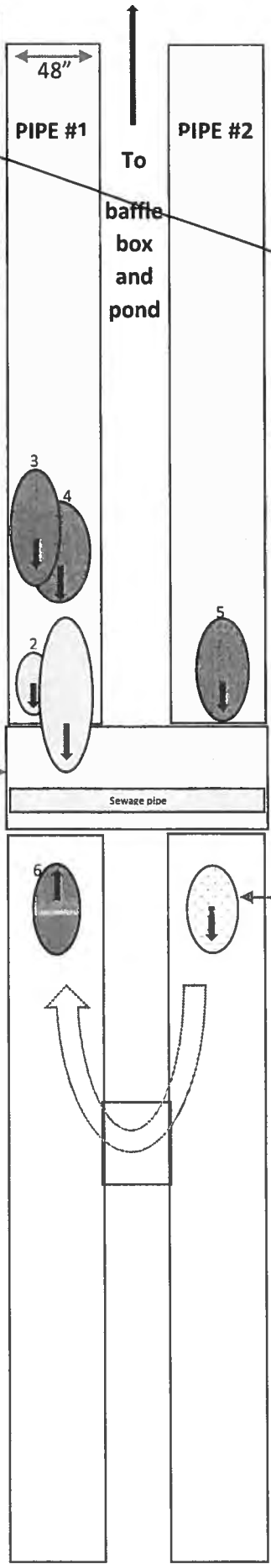

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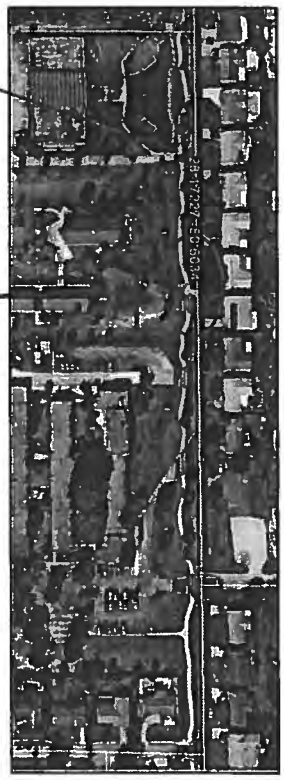

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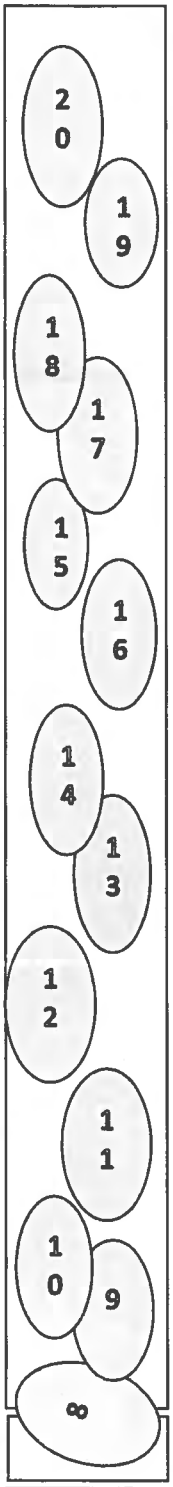

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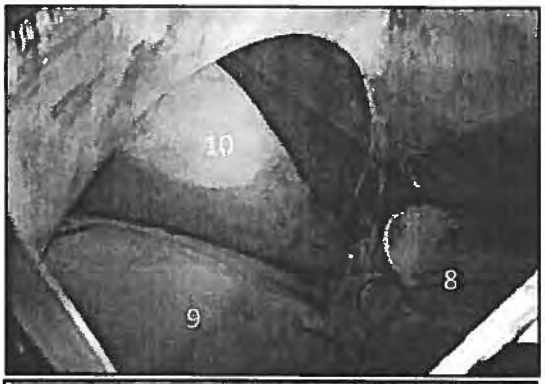

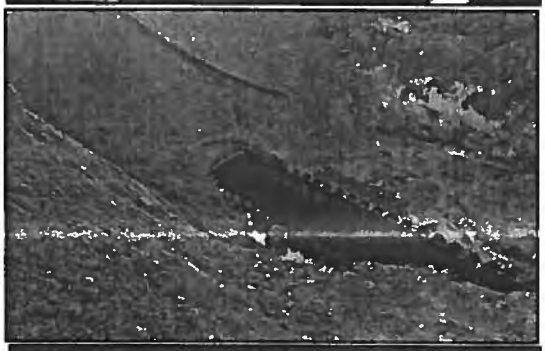

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Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7 - 19
© 2015 Google
1994
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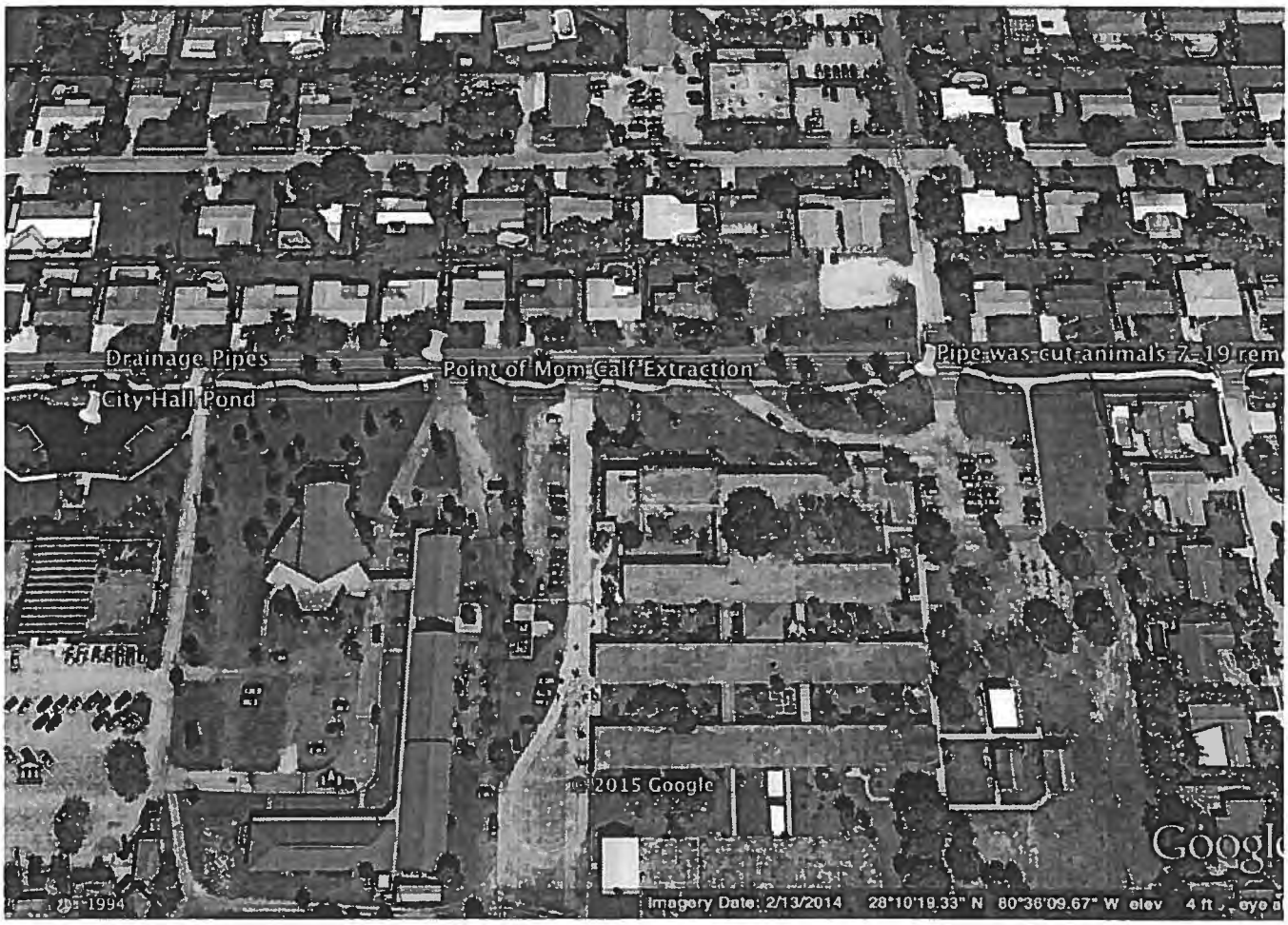

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

MyFoxTampaBay.com

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Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

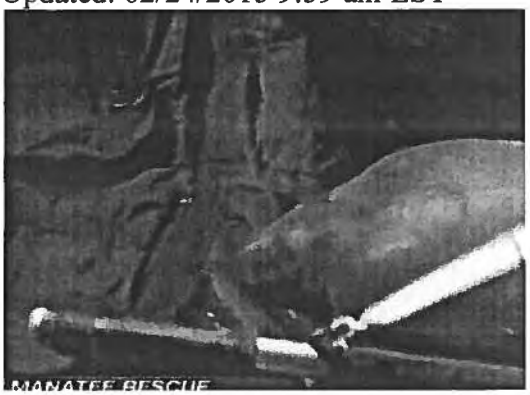
Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach

Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST



ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. to Rel

Rescue Report

REC1521

Entrapment Human (culvert)

GENERAL

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1521 Facility ID: SWFTm1517B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 245 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1723° N Longitude (Decimal Degrees): -080.6019° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

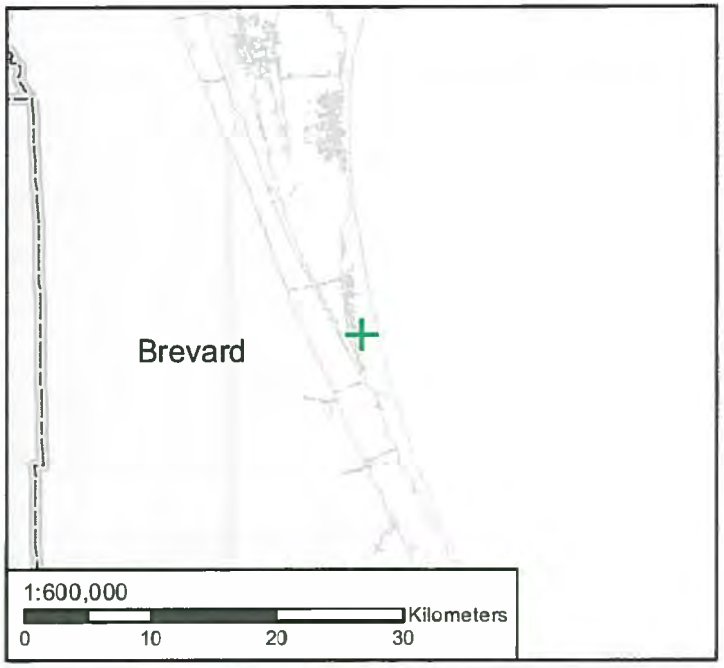
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1521

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1517b Map Created 4/21/2016



Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.6019°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

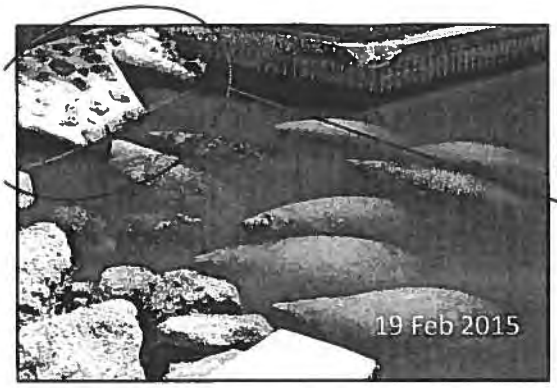
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



48"

PIPE #1

PIPE #2

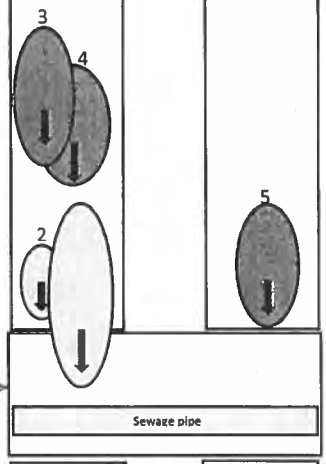
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

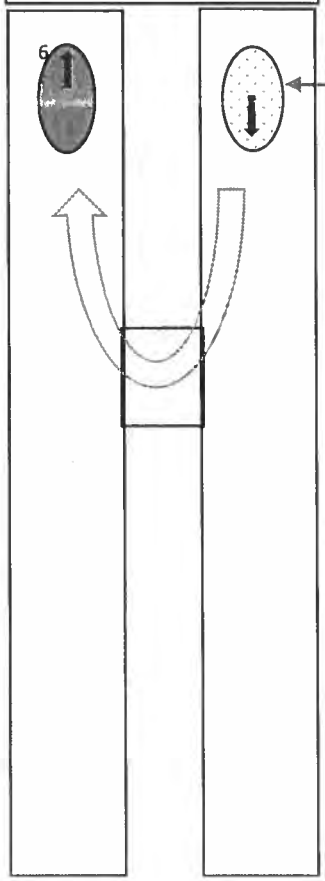
DRAFT



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

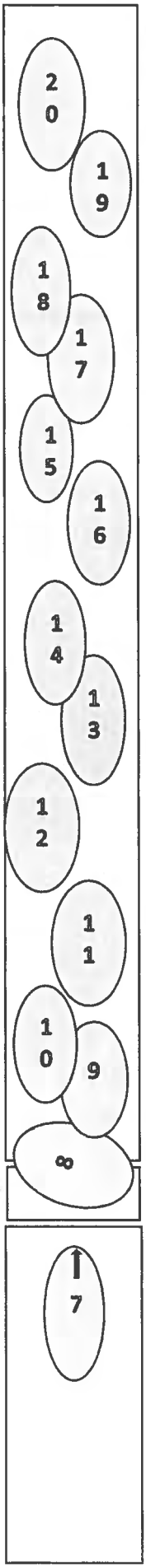
The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

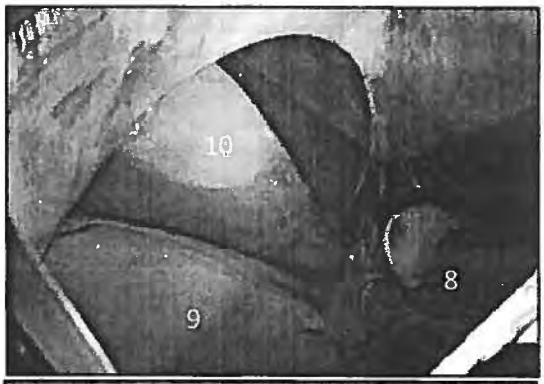
48"



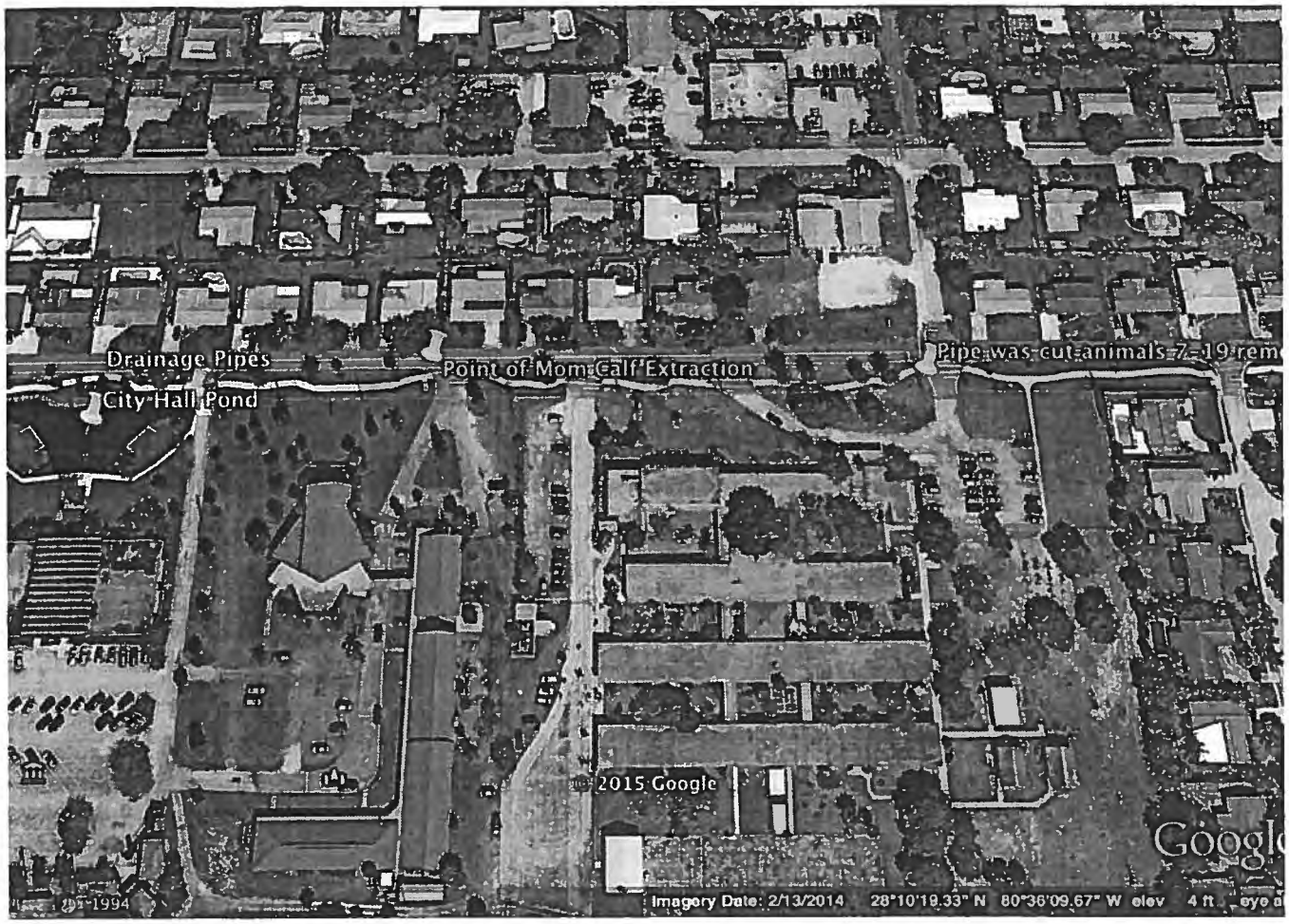
Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20



Feb. 23 - 24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

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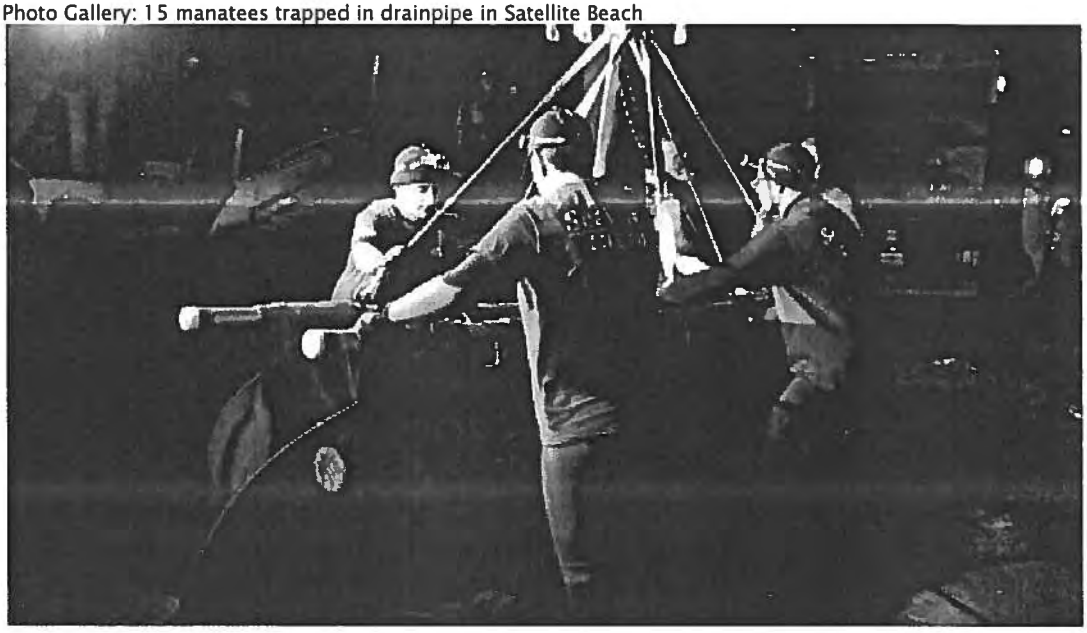
Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



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Asst. + Rel

Rescue Report

REC1522

Entrapment Human (Culvert)

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1522 Facility ID: SWFTm1518B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 252 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1723° N Longitude (Decimal Degrees): -080.6019° W

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☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

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At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.
Tuesday, 24 February 2015	

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

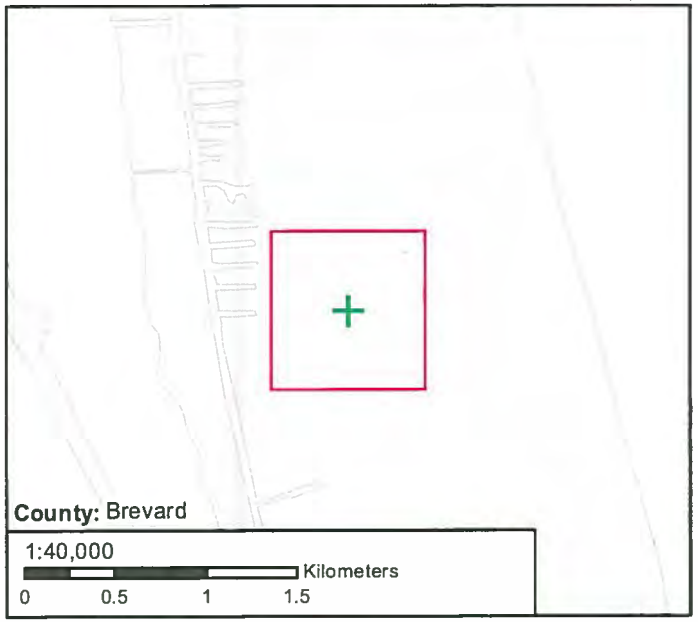
Edited by:

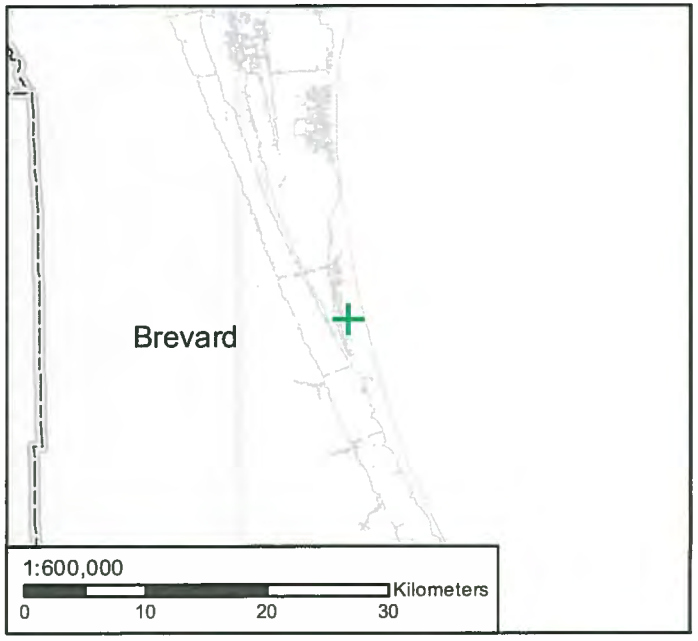
TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1522

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1518b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60192°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

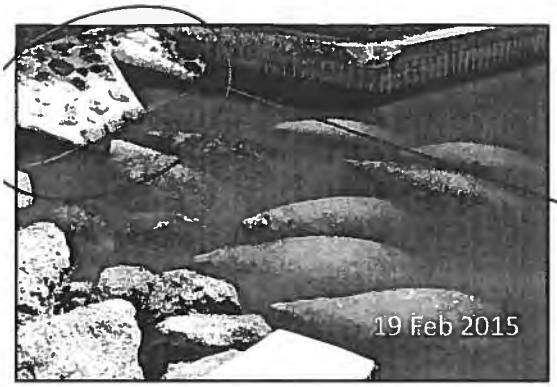
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



48"

PIPE #1

PIPE #2

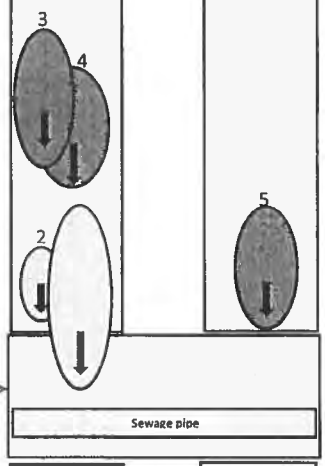
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

T TO SCALE

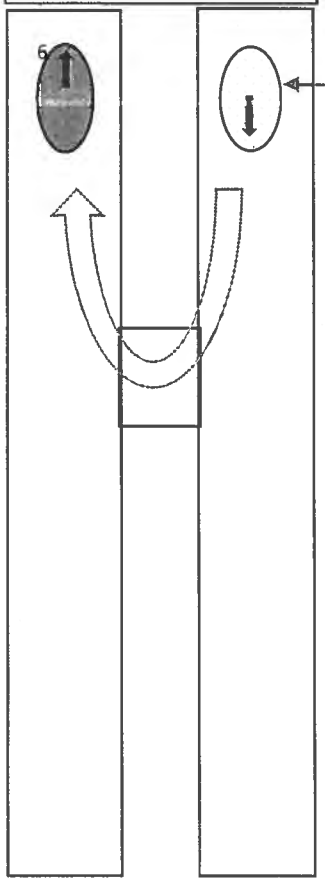
RAFT



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

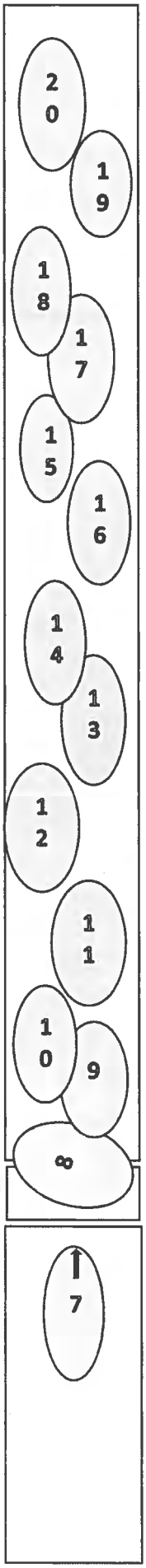
The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

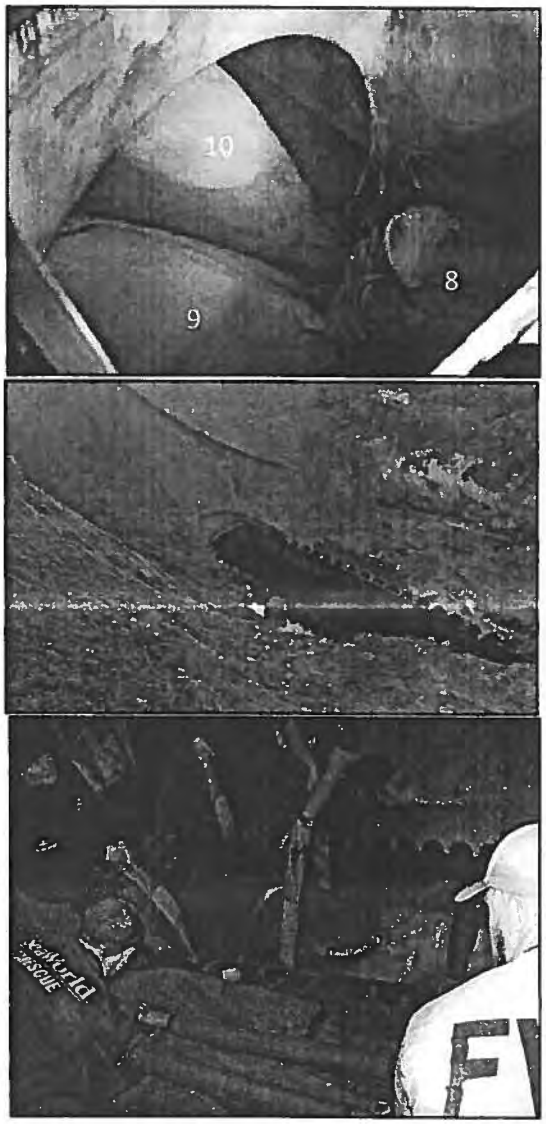
48"



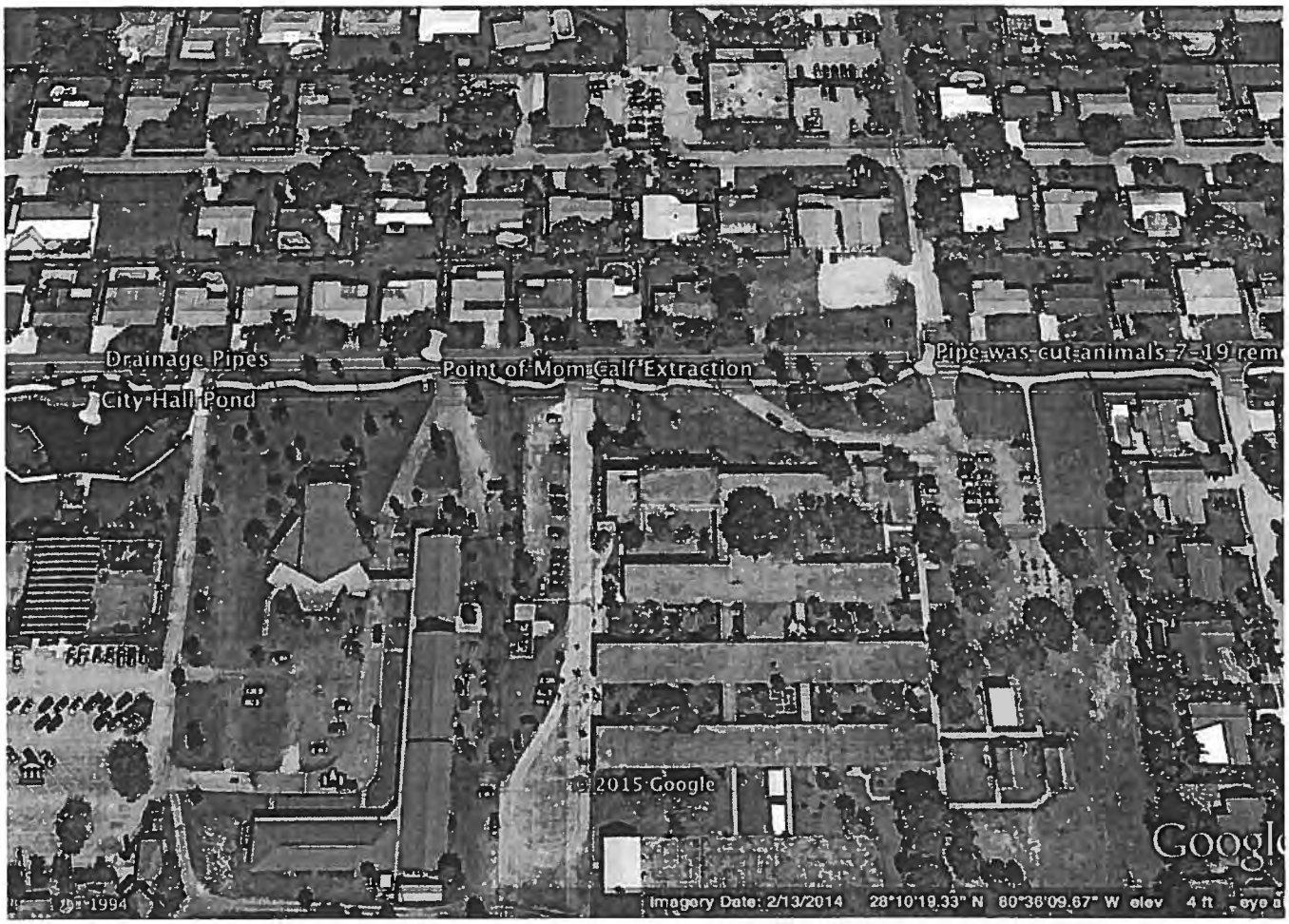
Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7 - 19
remo
© 2015 Google
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft
1994

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach

Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1523

Entrapment Human (culvert)

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1523 Facility ID: SWFTm1519B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 240 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17232° N Longitude (Decimal Degrees): -080.60194° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

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SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

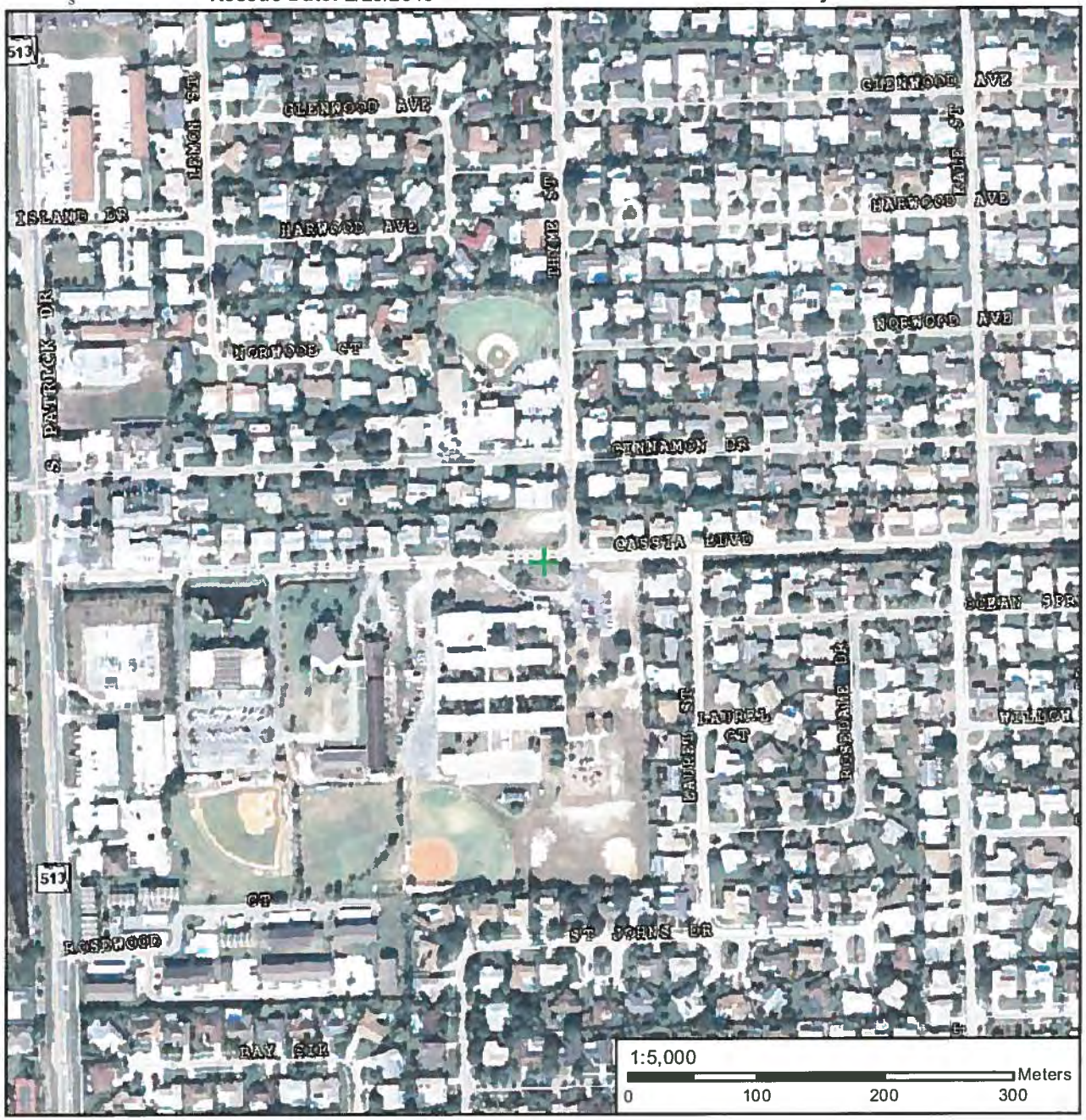
Edited by:

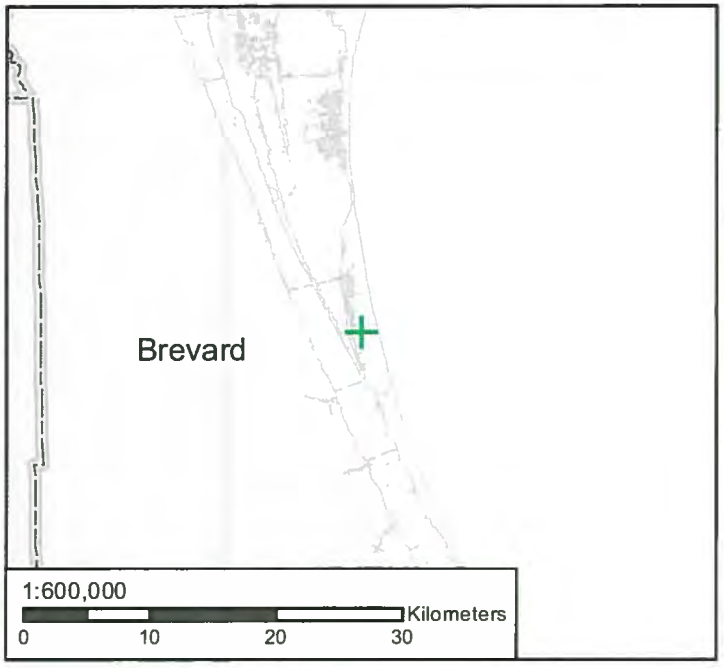
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1523

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1519b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17232°N **Longitude:** -80.60194°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

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By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

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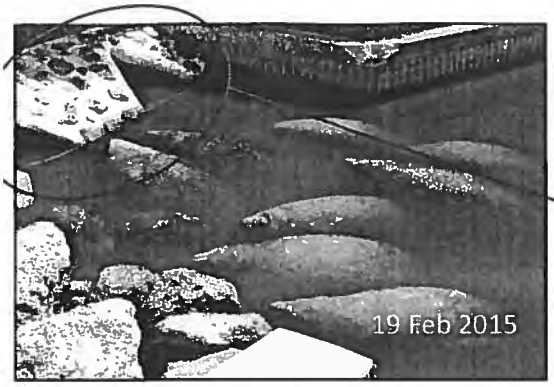

Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

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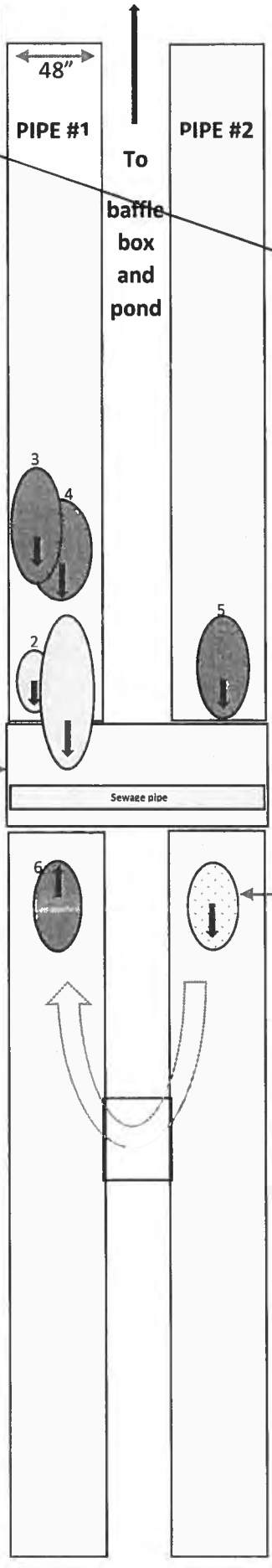


SECTION 1 EXTRACTIONS

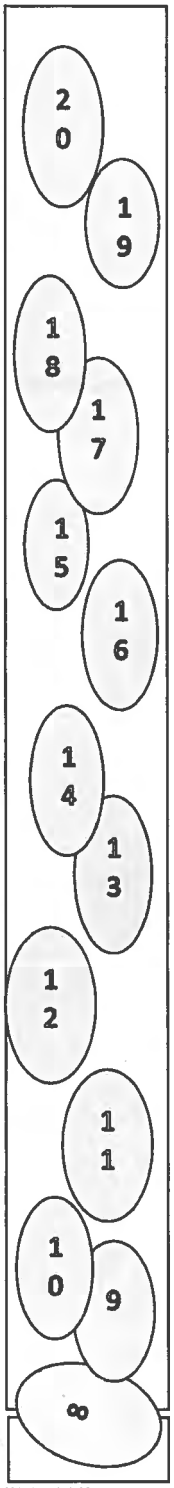
WEST

TO SCALE

RAFT

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

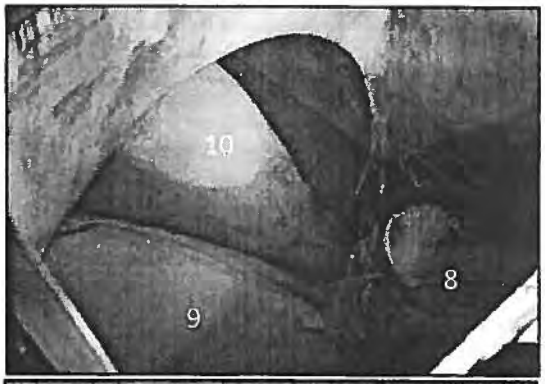
48"



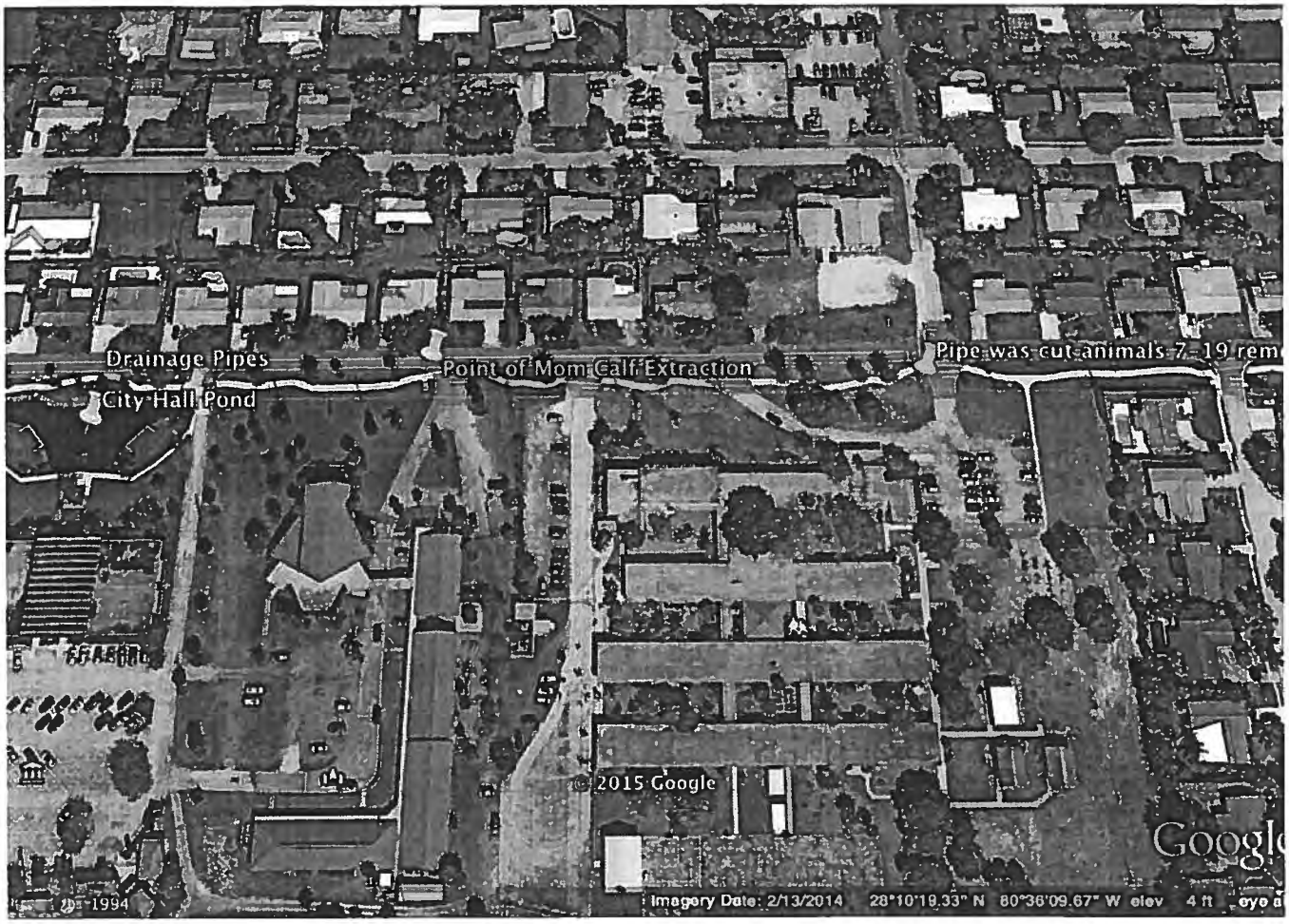
Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom/Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

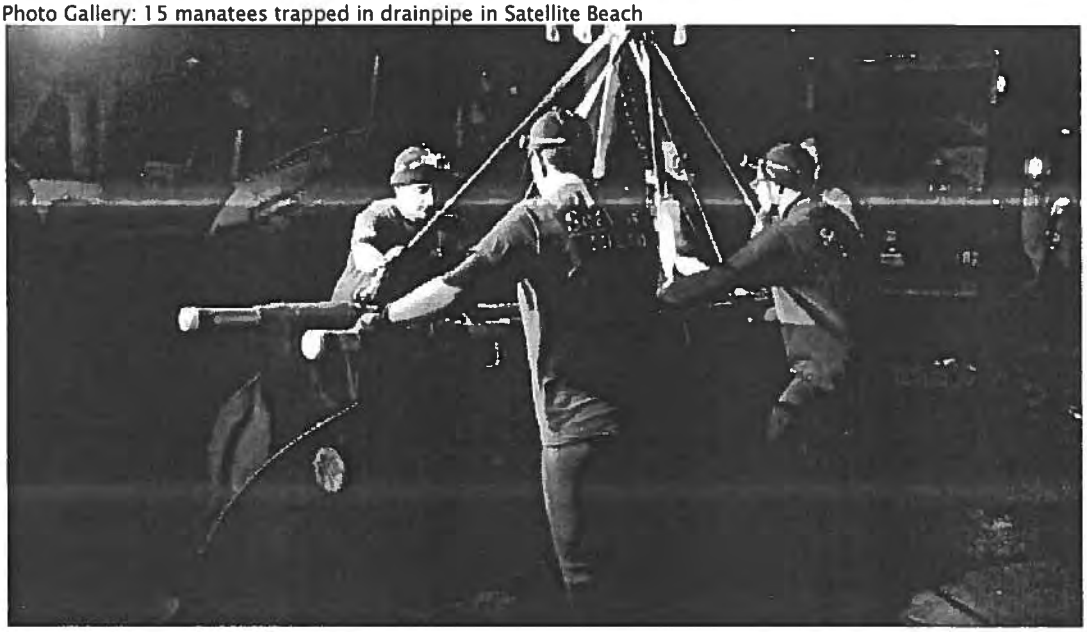
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

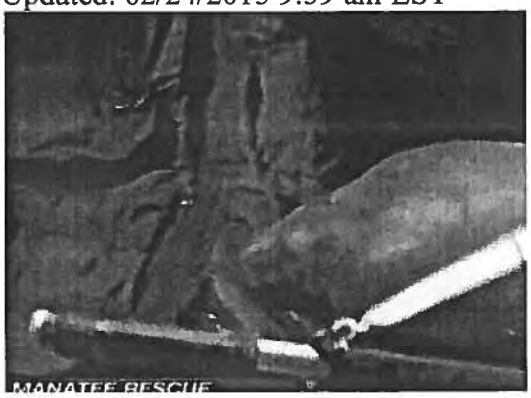
It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST



ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. to Rel

Rescue Report

REC1524

Entrapment Human (Culvert)

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1524 Facility ID: SWFTm1520B Other ID:

FWC Case Number: NA FWC Region: ~~Northeast~~ NE

Sex: Male Length: 212 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17232° N Longitude (Decimal Degrees): -080.60195° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine (DAL) stopped at the pond in front of Satellite Beach City Hall to document

	animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to the surface so that they could enter the pipe from the east end to try and work

some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew was prepared to receive the next manatee. The rescue team in the open pit

Tuesday, 24 February 2015	consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

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Blackwater Diving Company Divers

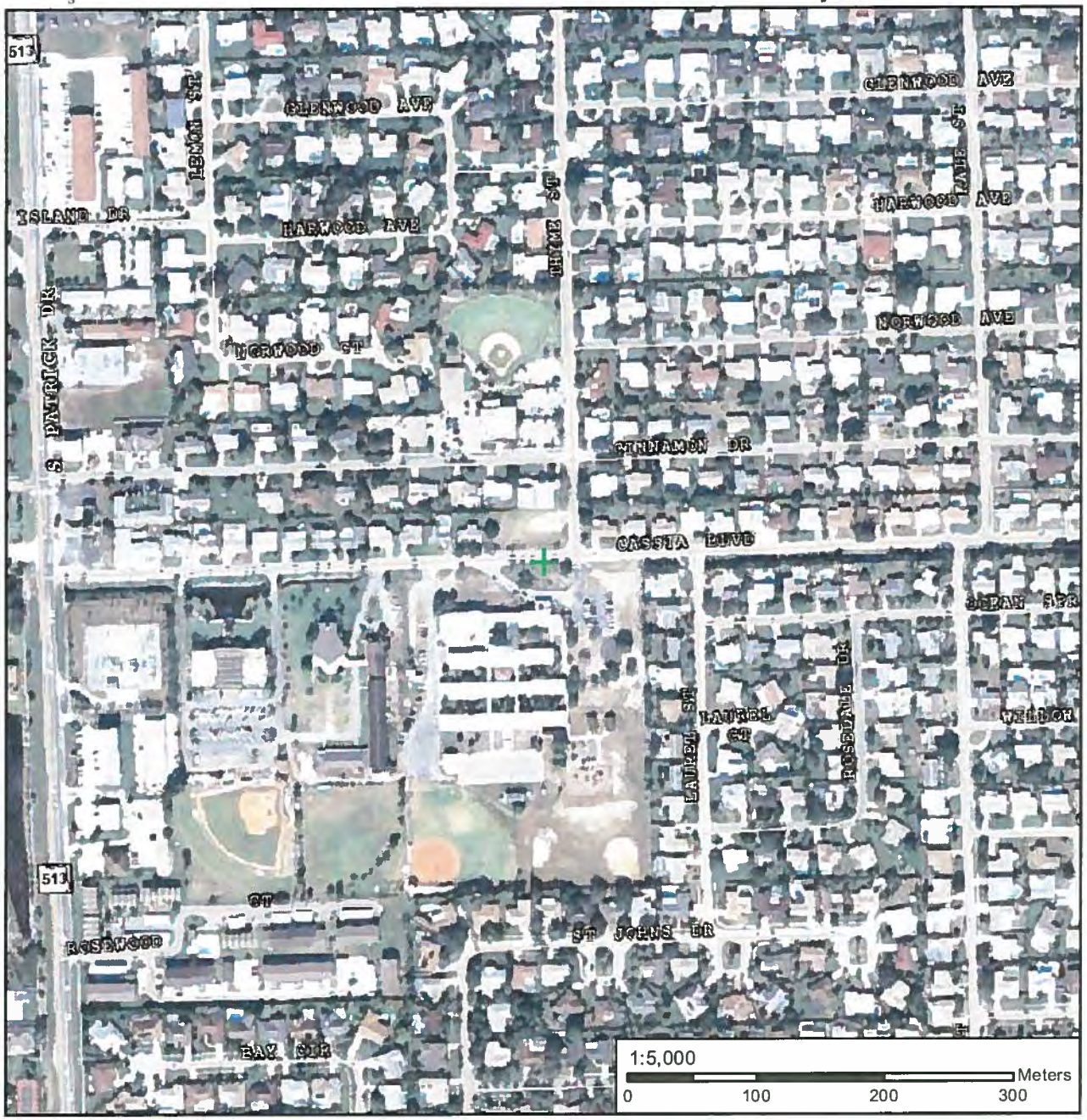
Edited by:

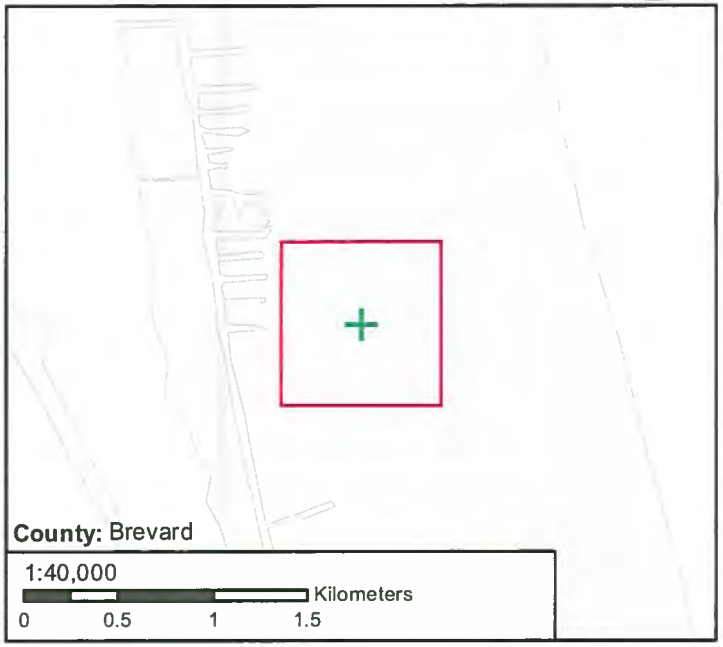
TRR
DJS
BLB
AJG

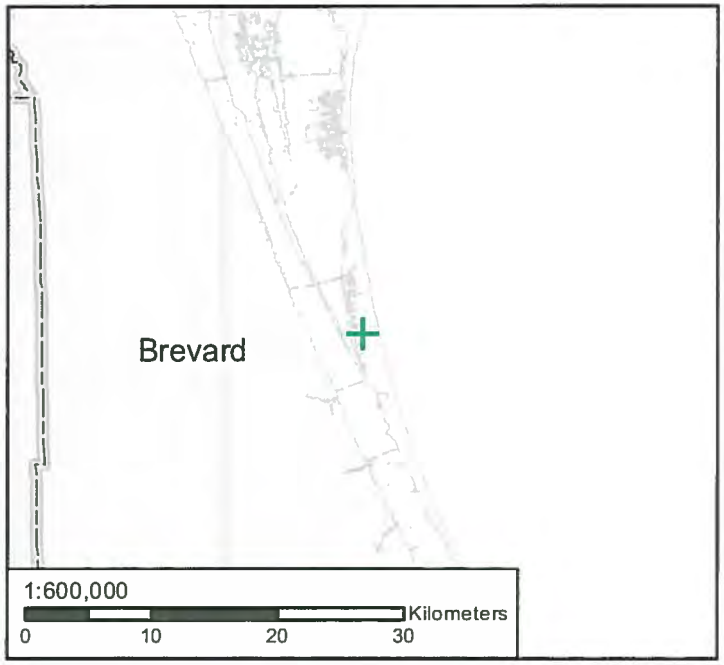
(02/20/2013)

Verified Response Location of Manatee Rescue REC1524

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1520b Map Created 4/21/2016







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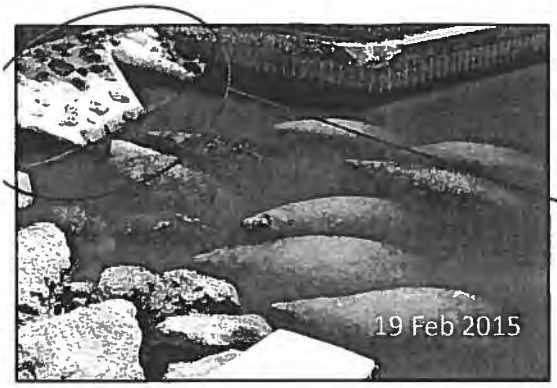


48"

PIPE #1

PIPE #2

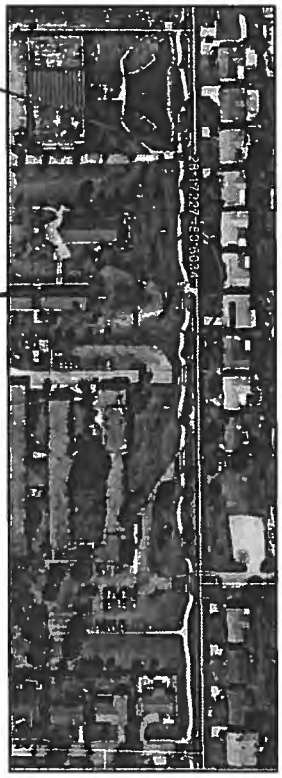
To baffle box and pond

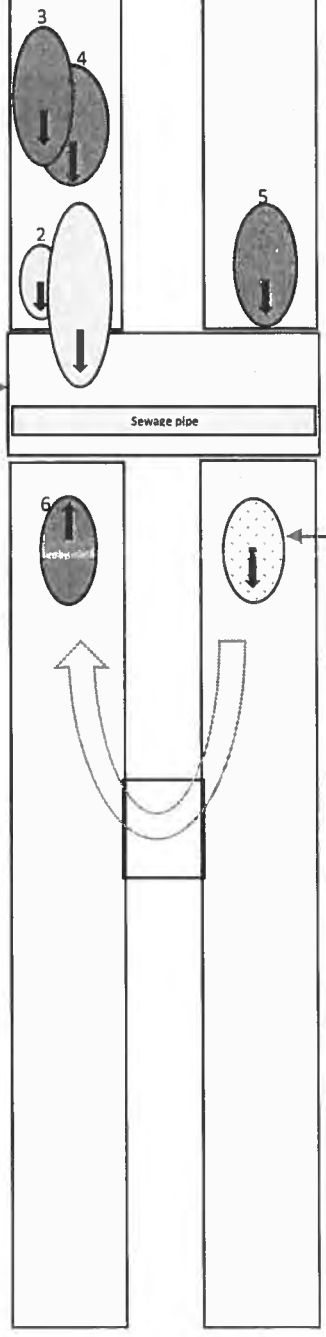
SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT





Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

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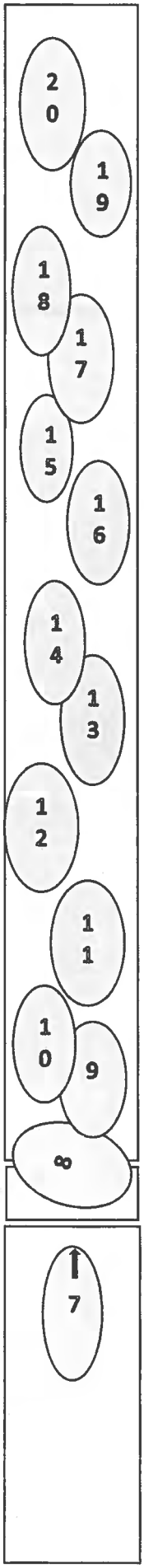
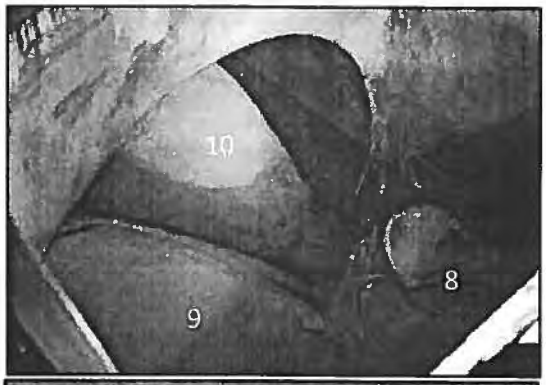


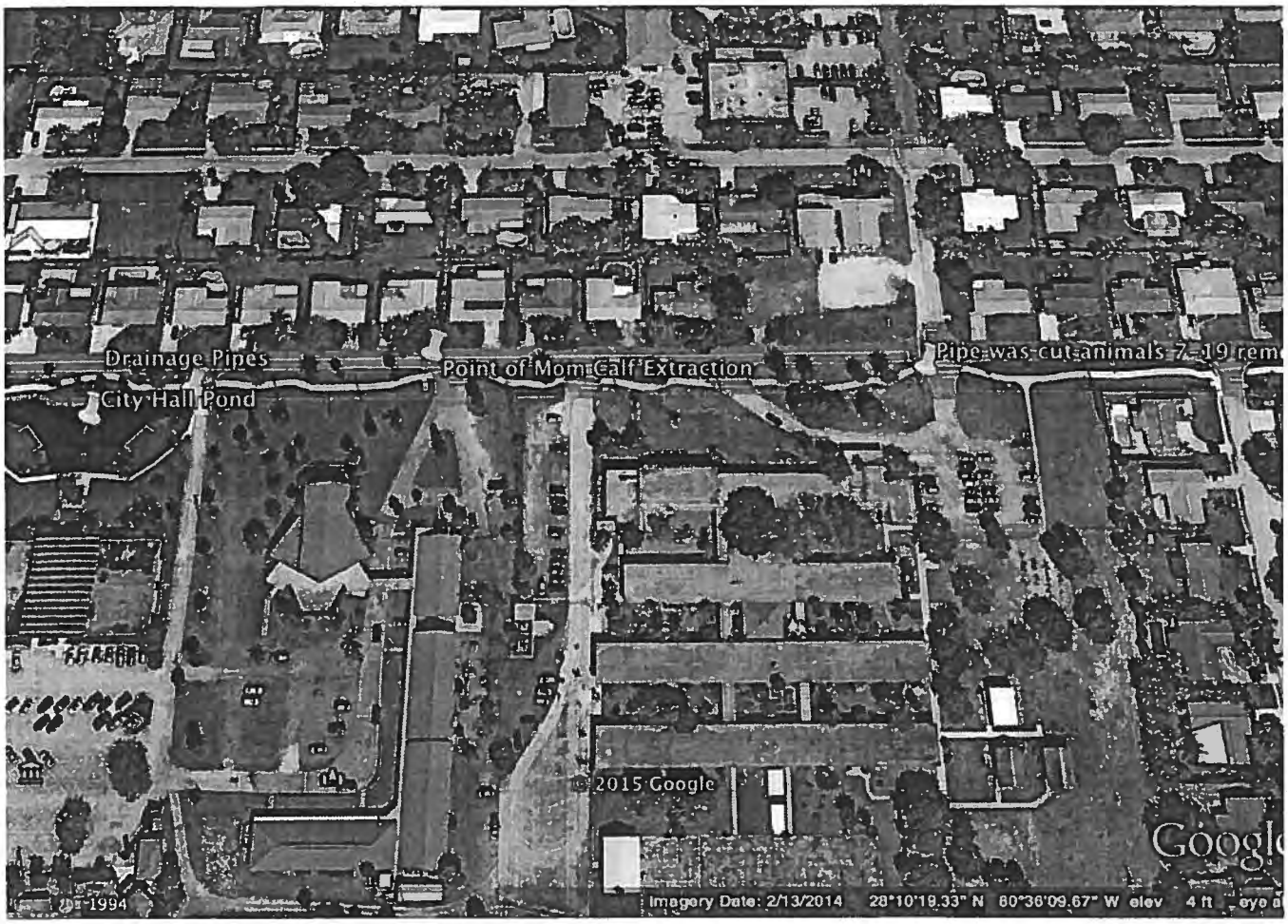
Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

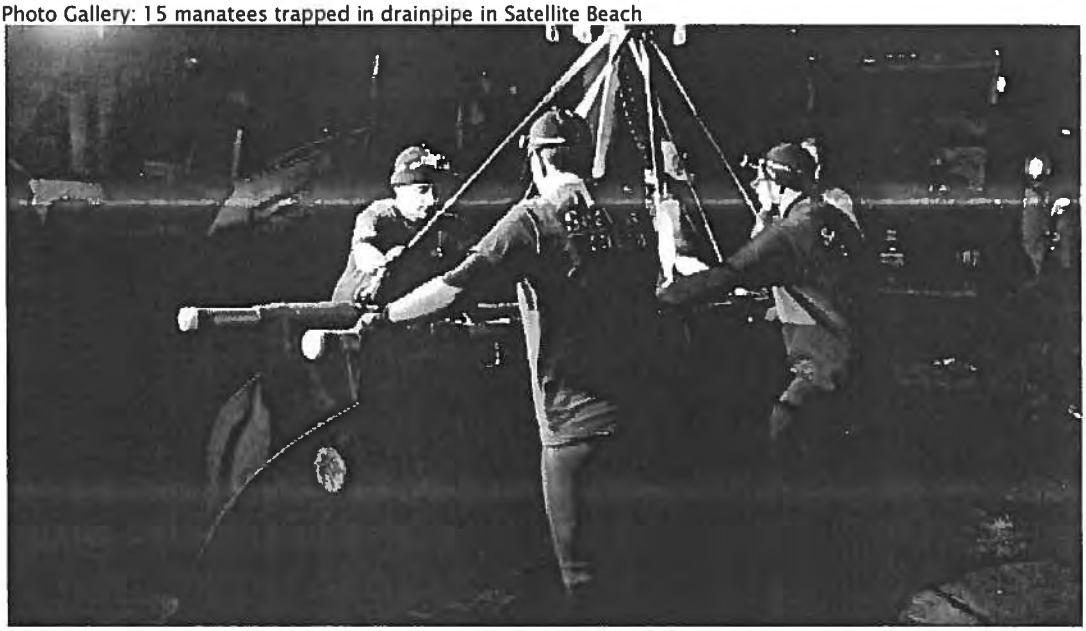
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
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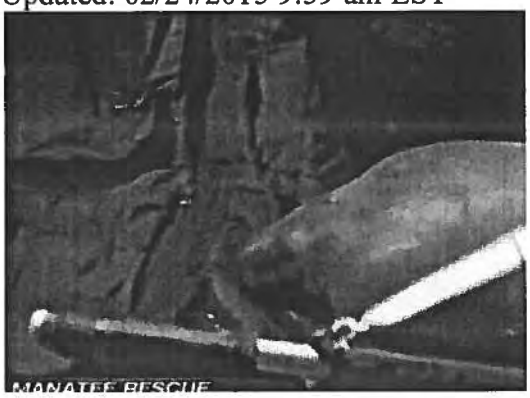


ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. d Rel

Rescue Report

REC1525

Entrapment Human Culvert

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1525 Facility ID: SWFTm1521B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Male Length: 204 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60199° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☒ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
Sunday, 22 February 2015	At 1044 hrs, DAL received a text alert from FWC NE Dispatch-Orlando regarding a report of a possibly trapped manatee near the Satellite Beach City Hall. FWC case number 1779 was assigned. DAL contacted the complainant, Jenny Hughes (321-536-3617), who explained that she had heard splashing and thought she saw a manatee in the storm water pipe. Based on their conversation, DAL was under the impression that the complainant was referring to the first baffle box nearest to the pond. DAL explained that the manatees could likely turn around and go back into the pond at will. DAL arrived at 1141 hrs, heard splashing in the first baffle box closest to the pond, and verified the presence of a small manatee calf in the box, who appeared to exit the pipe. At 1153 hrs, DAL contacted ACS to discuss another manatee he thought might be in distress in the pond, unrelated to the one in the baffle box. He also mentioned the manatee he heard and saw in the baffle box and indicated that while he thought it got out, he was not 100% certain. ACS was concerned that the manatee(s) may have been able to swim further into the pipes. ACS advised DAL that she would contact the Satellite Beach Public Works (SBPW) the following day (Monday) and ask them to inspect area baffle boxes and pipes connected to City Hall pond.
Monday, 23 February 2015	At approximately 1115 hrs, ACS arrived at the Satellite Beach City Hall (SBCH) pond to look for the injured manatee reported by DAL the previous day. At that time, ACS counted 19 manatees in the pond. ACS called SBPW Director-Allan Potter (AP) and left a message on his voicemail regarding her concerns that manatees may have entered and swum into the storm water drainage pipes. ACS requested the grate be removed from the baffle box, if possible, and for someone to check if there were any manatees in the storm drains. ACS then continued to another nearby warm-water site to assess manatees for cold stress or injury. Just before 1500 hrs, SBPW-AP left ACS a message confirming that three manatees were inside the pipe, approximately 75 meters east of the baffle box, including a mother and calf. ACS called SBPW-AP back and advised that she was on her way to assess the situation. ACS then called FWC Rescue Coordinator-Andy J. Garrett (AJG) to advise him of the situation and informed him that she would alert the Satellite Beach Fire Department (SBFD) and rescue partners at Sea World Florida (SWF). ACS notified FWC NE Dispatch-Orlando to request officer presence at the scene. ACS was advised that the only officer on duty in the area was home finishing paperwork. ACS informed Dispatch that she would call the local police department once on scene, if assistance was needed. After confirming with SWF that they could respond with 5-6 staff members, ACS contacted FWC EC Field Lab staff and trained rescue volunteers to advise them of the situation and

request assistance.

At approximately 1615 hrs, SBPW-AP informed ACS that there appeared to be additional manatees in the pipe behind the mom and calf, bringing the count to five or six manatees. Once on scene, ACS met SBFD Captain Jay Dragon and Chief Don Hughes, as well as SBPW-AP, who directed ACS to the location of the manatees. ACS assessed the situation and condition of each manatee that was visible and instructed staff/volunteers to support the head of the large female who was flipped over on her back and was partially submerged. ACS and the SBFD leads discussed potential rescue scenarios. At approximately 1700 hrs, a sixth manatee, slightly farther in the pipes, was confirmed. Once additional FWC rescue staff arrived, sections of pipe east of the manatees were visually checked for more animals. ACS informed AJG of the current count of six manatees. SBPW contacted SBPD to request crowd control and to shut down the road adjacent to the storm drain path. The SBFD Commander arrived and was briefed on the situation and the need to enter the pipes to free the manatees.

While waiting for rescue partners from SWF, Incident Command System (ICS) protocols were initiated by the SBFD Commander, leads were identified and roles were defined and agreed upon. Steps were taken to prepare the pipe for safe entry. During that time, one of the SBFD lieutenants and an FWC volunteer discovered another large male turned sideways in a junction box approximately 160 m further up the north pipe. Upon further inspection, they discovered an additional 12 manatees lined up behind it and a single manatee in the pipe ahead of it but facing the opposite direction. ACS tried to contact SWF supervisor Bob Wagoner (BW) but was unable to due to a bad phone connection. ACS contacted AJG with the latest count. At that time, AJG expressed concerns about undertaking a rescue of that magnitude in the pending dark. ACS provided a list of the resources on scene, the help currently available, and concerns about the forecast of rain the rest of the week. ACS put the SBFD chief on the phone with AJG to discuss the concerns further. The chief conveyed to AJG that all safety measures were being taken and that SBFD preferred the rescue commence that evening for a number of reasons, including the need to close a nearby school if delayed until morning.

While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

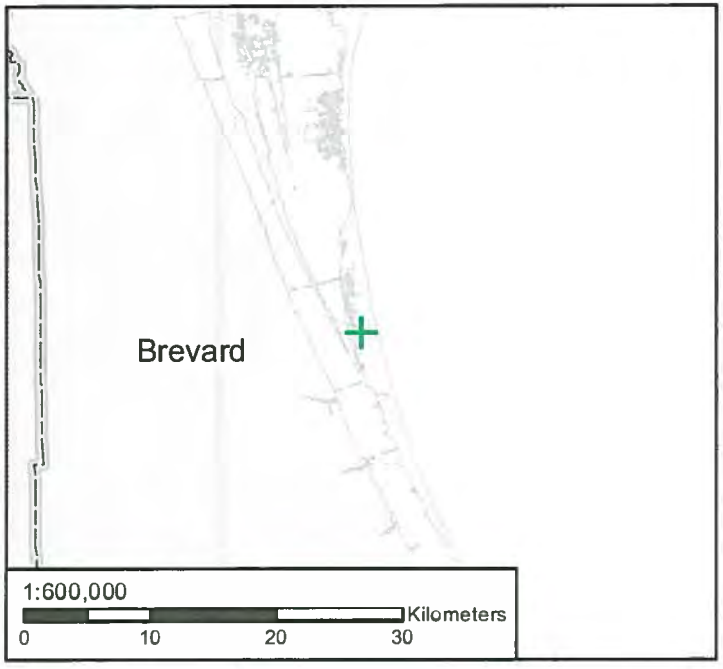
Edited by:

TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1525

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1521b Map Created 4/21/2016



Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60199°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

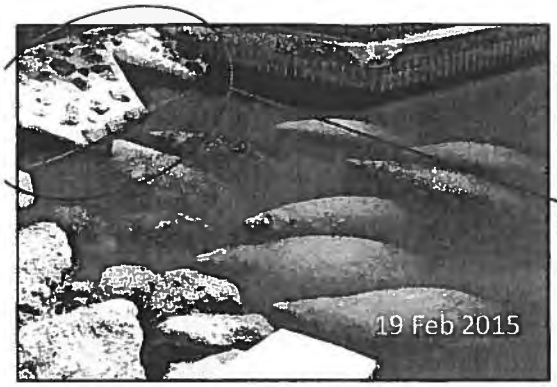
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



48"

PIPE #1

PIPE #2

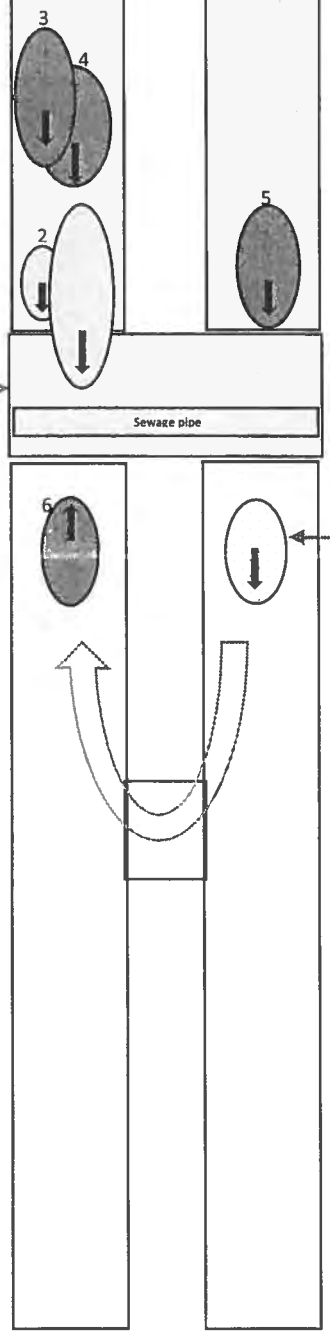
To baffle box and pond

SECTION 1 EXTRACTIONS

WEST

NOT TO SCALE

DRAFT



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.

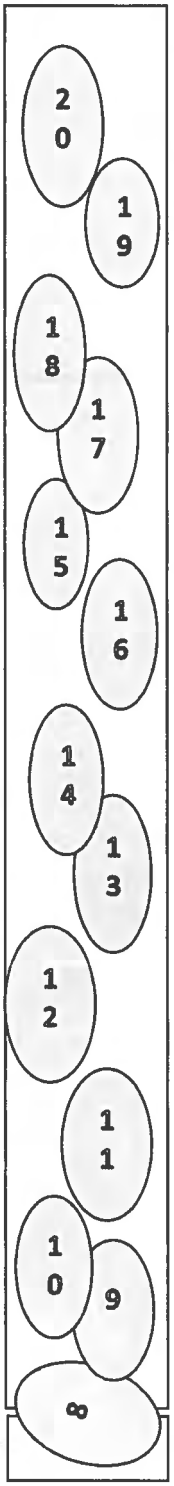
Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

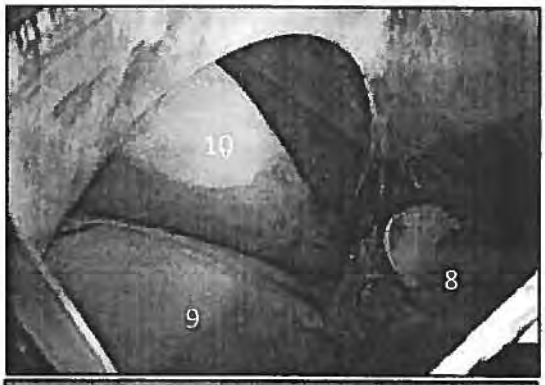
48"

Section 2

Direction manatees # 8-20 were facing

WEST





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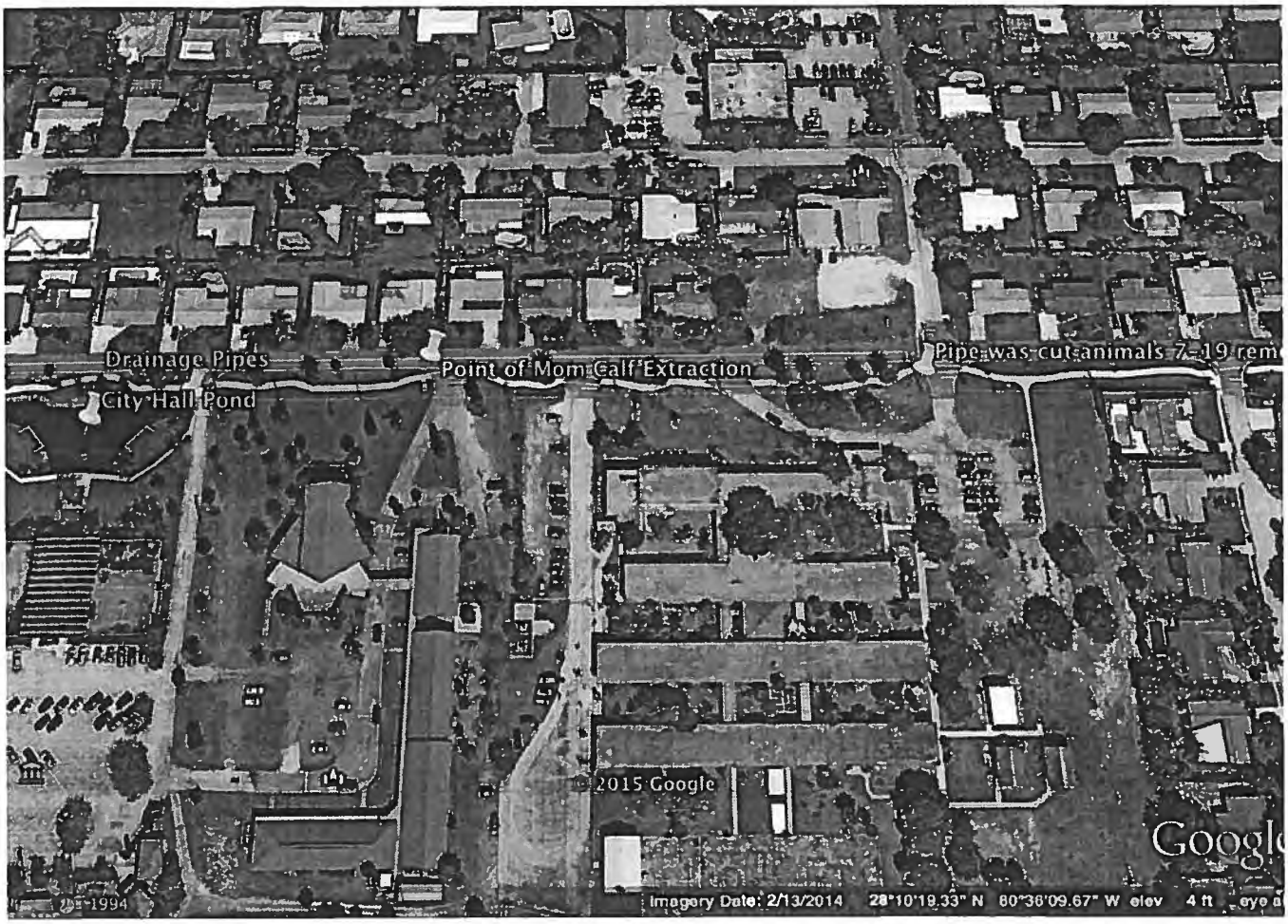

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe-was cut animals 7-19
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Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach

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The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst at Rel

Rescue Report

REC1526

Entrapment Human (culvert)

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1526 Facility ID: SWFTm1522B Other ID:

FWC Case Number: NA FWC Region: Northeast

Sex: Male Length: 225 cm Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1723° N Longitude (Decimal Degrees): -080.6020° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

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☐ Orphan	☐ Other: (Specify): _____	

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
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While the chief was talking to AJG, concerns were raised that a less than 12" diameter sewage pipe located in front of the female at the first junction box may crack during extraction, exposing the rescuers and manatees to raw sewage. SBPW offered to flush, cut, and cap the exposed section of pipe if deemed necessary. SWF arrived at approximately 1800 hrs and ACS, SBPW, and SBFD leads briefed BW on the situation. BW assessed the manatees and agreed that the three most critical to remove were the mom and calf and the large wedged male. SBPW was then given the go ahead to remove the sewer pipe to facilitate removing the female manatee (REC1508/SWFTm1504). Two rescue workers and two firefighters working in pairs were harnessed with safety gear rigged to

the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

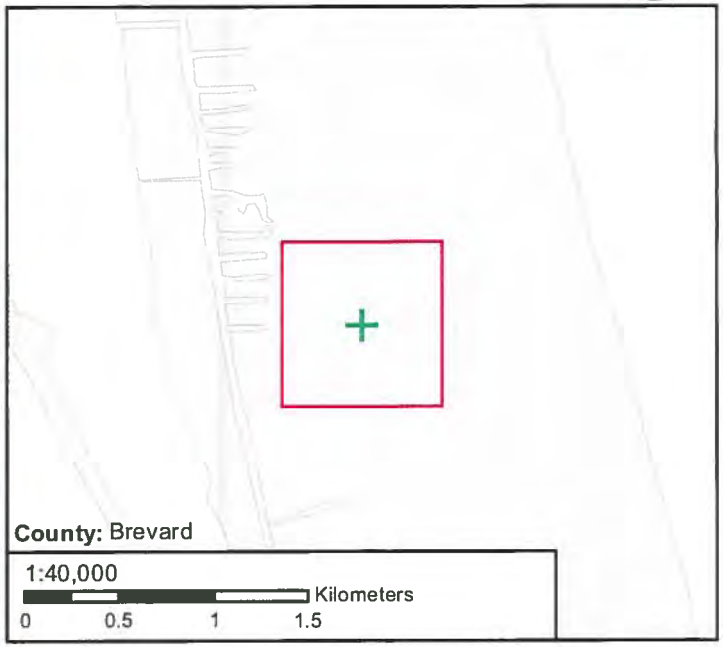
Edited by:

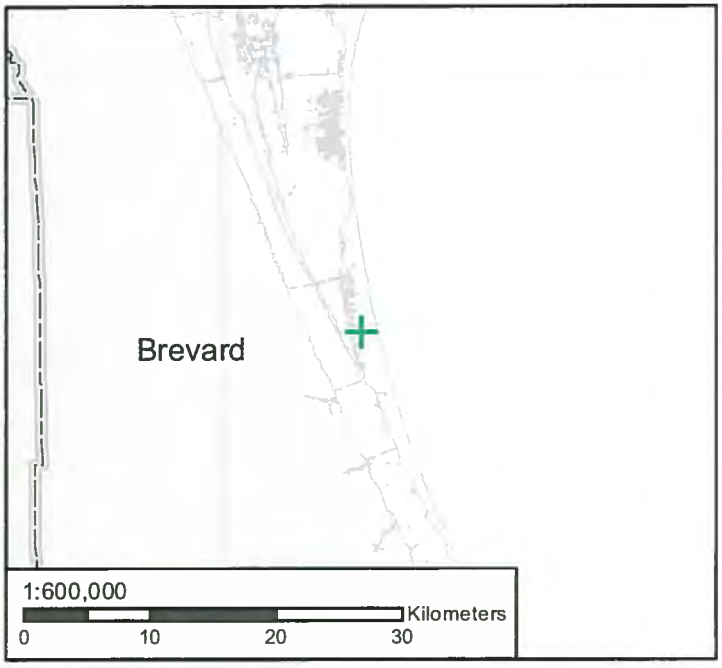
TRR
DJS
BLB
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1526

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1522b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.602°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

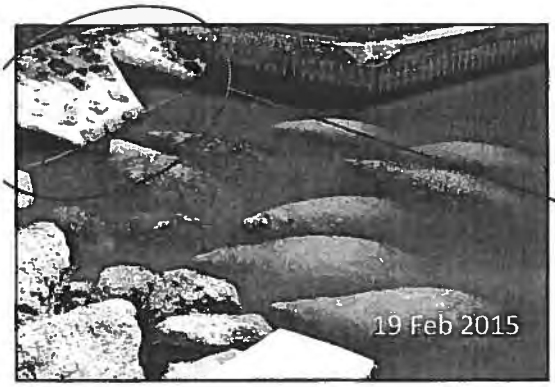
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

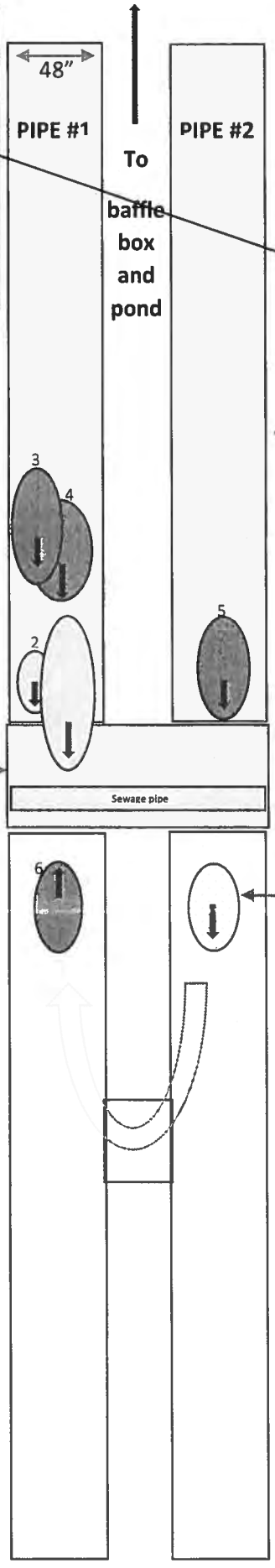
To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe**, dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



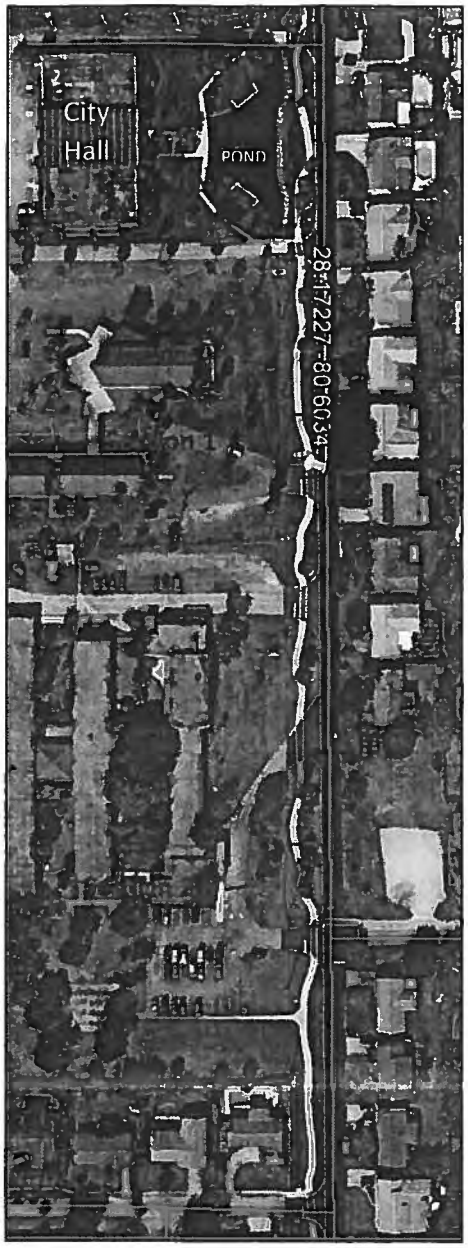
SECTION 1 EXTRACTIONS

WEST

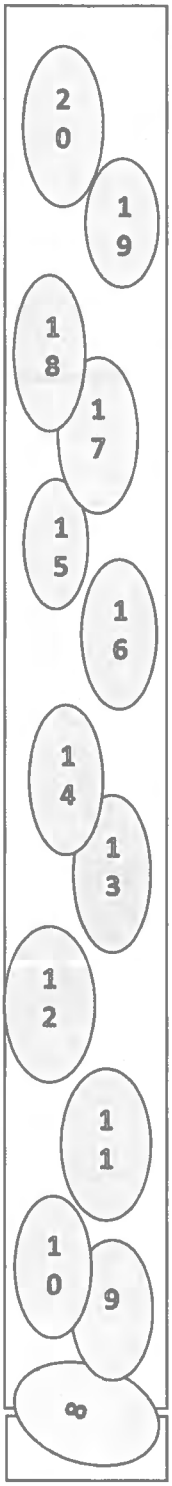
NOT TO SCALE

DRAFT

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.



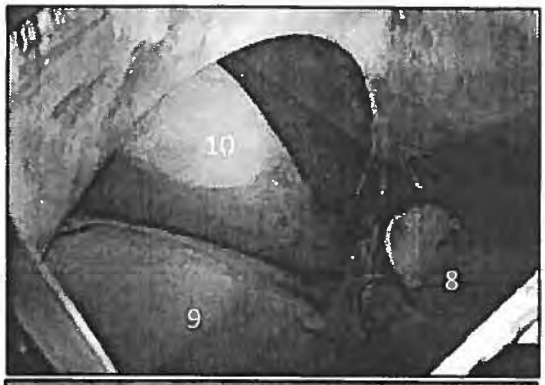
48"



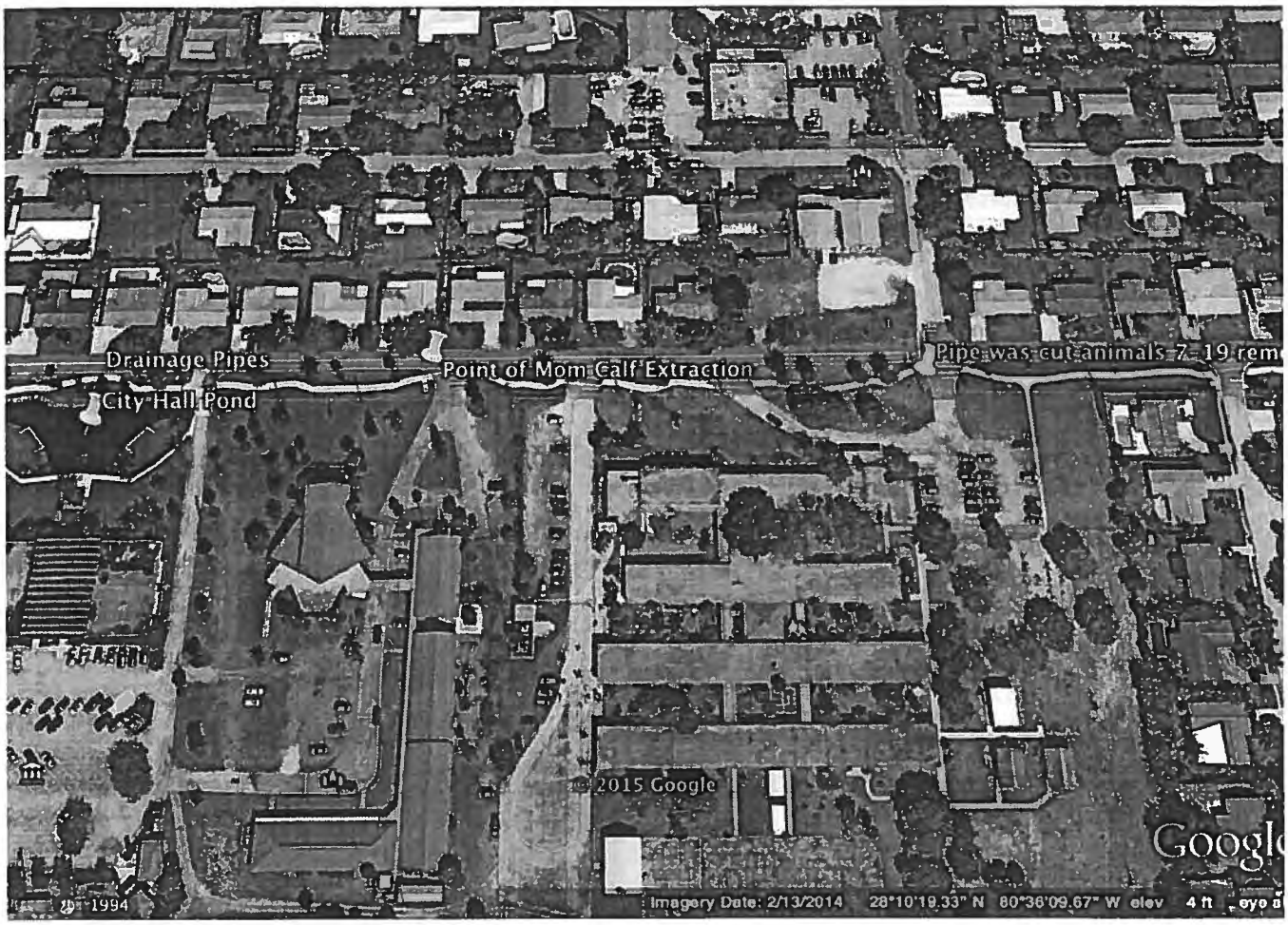
Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20



Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
Femo
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

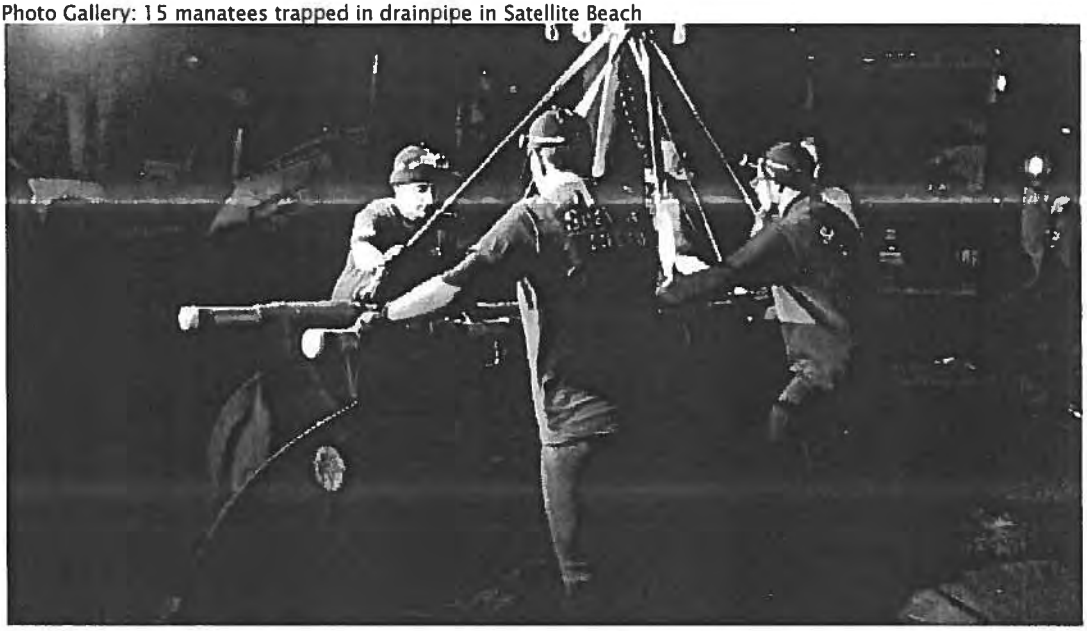
Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach



Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Asst. + Rel

Rescue Report

REC1527

Entrapment Human (Culvert)

General

Date of Rescue: 24 February 2015 Date of Initial Call: 23 February 2015 Filed by: A. Spellman

Rescue ID: REC1527 Facility ID: SWFTm1523B Other ID:

FWC Case Number: NA FWC Region: NE

Sex: Female Length: 228 Estimated: No Weight: kg Estimated:

PIT Tag Present: No PIT Tag Applied: No R: L:

State: Florida City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.17231° N Longitude (Decimal Degrees): -080.60201° W

Locality Description: In storm water drain pipe running parallel to Cassia Blvd, 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Method of Capture: Maneuvered into excavated and cut open portion of drainage pipe. Place in stretcher and removed by backhoe

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☒ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entrapment-Human Related

Describe: Stuck in storm water drain pipe along with 19 other manatees

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☒
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
Thursday, 19 February 2015	While conducting routine visits and assessing manatees at warm-water sites in Satellite Beach, FWC-biologists Ann C. Spellman (ACS) and Daniel A. Levine

	(DAL) stopped at the pond in front of Satellite Beach City Hall to document animals using the small warm-water site. Fifty-nine manatees were counted and photographed at the site. ACS documented approximately a dozen or more manatees lined up next to the storm water pipes at the east end, presumably taking advantage of the fresh, 23.5°C water coming out of the two pipes.
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the surface so that they could enter the pipe from the east end to try and work some of the manatees out behind the mom and calf. Once the sewage pipe was removed and capped, the large female was moved into the junction box and a stretcher was lowered into the box. The manatee was moved into the stretcher and hoisted to the surface using the backhoe and chains. Her calf (REC1509) was extracted next in the same fashion. Both manatees were loaded into the FWC manatee transport truck, assessed for any injuries and responsiveness by ACS, then photographed and marked with a grease marker using sequential numbers. Gender and length were recorded and the manatees were scanned for PIT tags before being taken back to the City Hall pond and released at approximately 1930 hrs. Once the female and her calf were removed, three of the remaining four manatees (REC510, REC1511, and REC1512) in that section were manually directed out of the pipes by the biologist/firefighter teams. The final manatee (REC1513) in that section then swam out of the pipe unassisted. SBPW crew placed temporary grates over the pipe entry points to prevent entry by any additional manatees.

Once the extractions were complete in the west section of the storm drain system, ACS, BW and FWC volunteer Leo Cross (LJC) began discussing options to extract the remaining 14 manatees in the east section. Fire crews worked to replace all of the opened manhole covers and move operations to the second section of entrapments. BW and a harnessed firefighter, under the watch of the SBFD, entered the pipe from behind the manatees to assess whether manually moving the manatees backwards was an option. During that time, LJC presented ACS with a suggestion for extraction that would require digging up the earth around the pipe, sawing off the top of the pipe, working the manatees into a stretcher one at a time, then hoisting them to the surface using the backhoe. ACS approached SBPW-AP and the SBFD leads and outlined the proposal. BW determined that manual extraction was not feasible due to the distance and number of manatees. SBPW agreed to bring in the necessary equipment to dig up the culvert and remove a section of pipe. SBPW crew excavated the earth around the pipe, brought in necessary gear and staff to suction out groundwater seepage, shored up the sides of the pit, and stabilized the site.

After measuring the necessary clearance needed to insert the stretcher in the pipe, SBPW staff used a large circular saw to remove the upper half of the corrugated plastic pipe. The first cut was just long enough to remove the lone sub-adult manatee from the east side of the junction box (REC1514). The pipe was then cut further to facilitate extraction of the large male (REC1515) and those caught behind him (REC1516 though REC1527). Starting at approximately 2250 hrs, each manatee was worked into, or independently pec-walked into, the stretcher and secured. Using the backhoe, each manatee was lifted out of the pit and placed on the lift gate of one of two available transport trucks. To prevent manatees from moving into the work field all at once, wooden boards were used to block egress from the pipe until the rescue crew

Tuesday, 24 February 2015	was prepared to receive the next manatee. The rescue team in the open pit consisted of FWC biologists and experienced FWC volunteers as well as SWF animal care staff. Staff was continuously monitored for safety from above by the SBFD. In the transport trucks, FWC biologist-Christine Rush and two FWC volunteers measured, scanned for PIT tags and determined gender of each manatee. ACS and CNR assessed each animal for responsiveness, injuries, and body condition before approving release. ACS coordinated and conducted the transport and release of each animal in conjunction with the other truck from SWF. Upon arrival at the pond, divers from Black Water Diving Company, who had shown up after seeing it on the news, were used in conjunction with local airmen from Patrick Air Force Base to carry each manatee into the pond. The last manatee, REC1527, was extracted and released into the pond at approximately 0200 hrs on 24 February. Using a plumber's camera, the city checked all of the connecting pipes for any additional manatees but none were found.

PARTICIPANTS:

FWC EC: A. Spellman, D. Levine, C. Rush, R. Riley (FDM), Volunteers: L. Cross, P. Caudill, J. Herr, L. Whitleff, J. White

SWF: R. Wagoner (supervisor), N. Ricci, A. Peter, A. Toeger, R. Downey, S. DePasquale (Videographer)

SBFD: Chief D. Hughs, Commander D. Abernathy, T. Abernathy, N. Perry, K. Duclos, S. Manning, C. Barton, R. Iverson, J. Schwartz, I. Corado, B. Pettingill (Brad), B. Pettingill (Barry), Capt. J. Dragon, M. Hawley, Lt. R. Williams, N. Walsh, M. Drake

SBPD: J. Peerson, J. McGann, E. Anderson, J. Simonides, G. woods, M. Bennett, D. Triebell

SBPW: A. Potter; D. Peters, R. Settembrino (backhoe driver), J. Cashman, J. Heer, T. Hodge, P. Cline

PAFB: 5th Space Launch-Squadron J. Freeman, G. Baker, C. Remy, M. Barraco, 45 Launch Support Squadron- M. Nesby

Blackwater Diving Company Divers

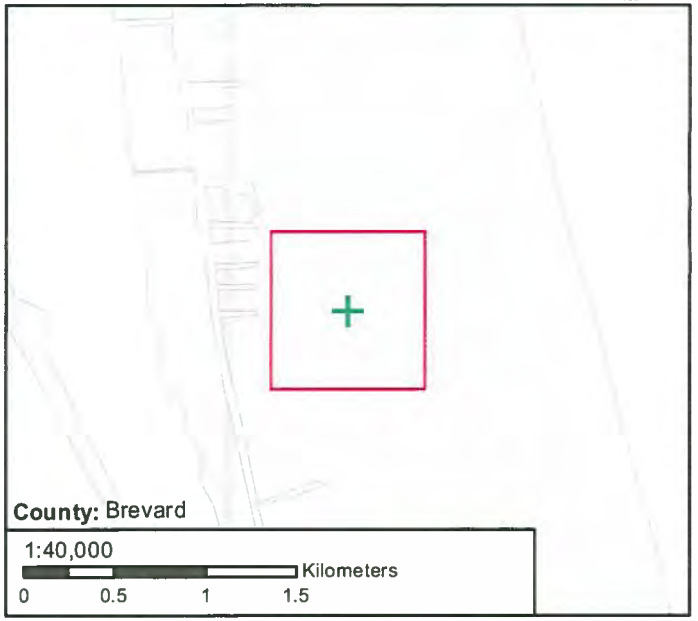
Edited by:

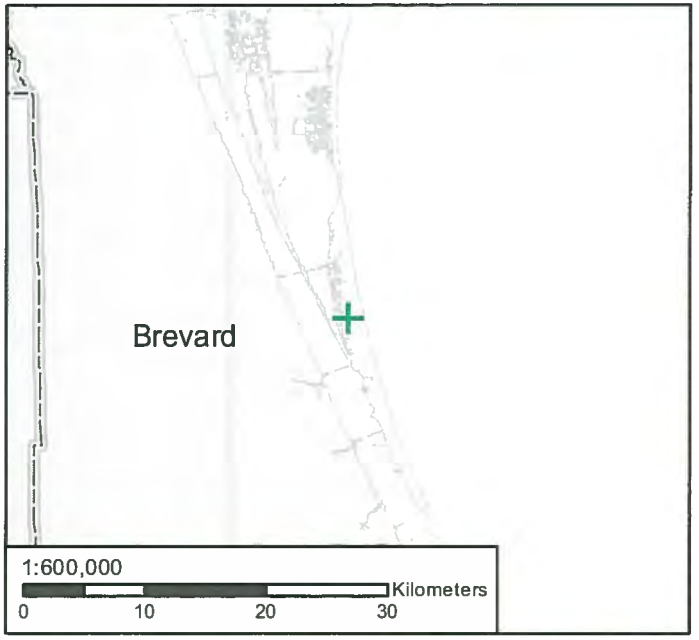
TRR
DJS
BLB
AJG

(02 20 2013)

Verified Response Location of Manatee Rescue REC1527

Rescue Date: 2/23/2015 **Facility ID:** SWFTm1523b Map Created 4/21/2016





Locality Description:

in storm water drain pipe running parallel to Cassia Blvd., 230 m E of baffle box, 270 m NE of Satellite Beach Town Hall at 565 Cassia Blvd

Latitude: 28.17231°N **Longitude:** -80.60201°W

Communications Office
Fish and Wildlife Research Institute
Florida Fish and Wildlife Conservation Commission

19 Manatees rescued from Satellite Beach drainage system

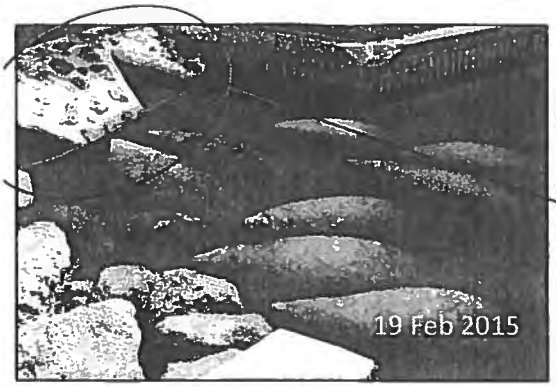
FWC biologists arrived on scene at 3:30 pm Monday afternoon and found 4 manatees stranded in a box culvert that drains into the Indian River Lagoon. "We located 4 animals initially and then began pulling up manhole covers. We found another, then another, then another," recalls FWC manatee biologist Ann Spellman who was first on scene.

Manatees thought to be in the most critical condition were assessed and rescued first. The first six rescues which included a mother and calf pair were successfully backed out of the stormwater drain and safely released. The remaining manatees whose count at the time was unknown would require rescuers to dig up a portion of roadway; cut, drain and cap a sewer line; and rescue the stranded animals one-by-one through an opening cut into the drainage system. Before release, each manatee was given a quick health assessment and marked with a grease marker to help biologists identify and check up on the rescued animals in the coming days.

By 2 a.m. all 19 manatees were successfully rescued and released back into the Indian River Lagoon. "This large-scale rescue effort would not have been possible without the help of our partners," said Spellman. "It took a village and an Air Force Base." Our partners on this incredible rescue include the City of Satellite Beach (SB), SB Fire Department, SB Police Department, SeaWorld, Blackwater Divers and members of Patrick Air Force Base.

You can show your support for manatees by purchasing a manatee license plate at BuyaPlate.com. Funds from the license plate support manatee research and conservation.

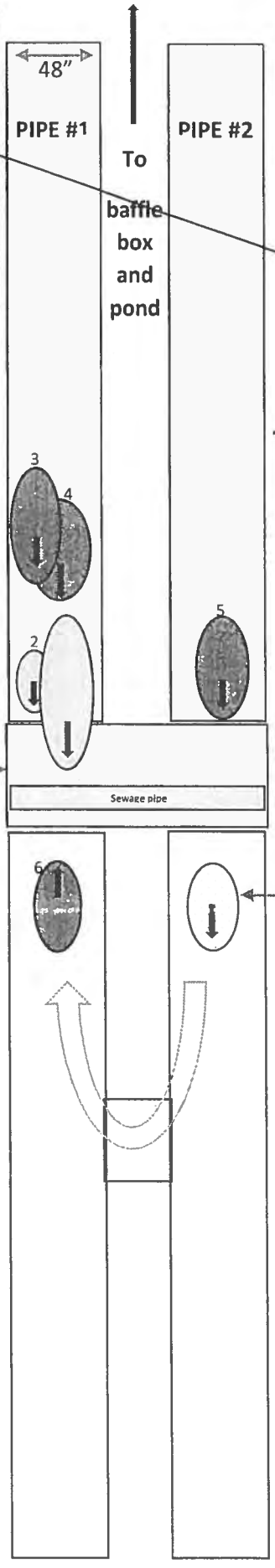
To report a dead or distressed manatee, call the FWC Wildlife Alert Hotline at 888-404-FWCC (3922).



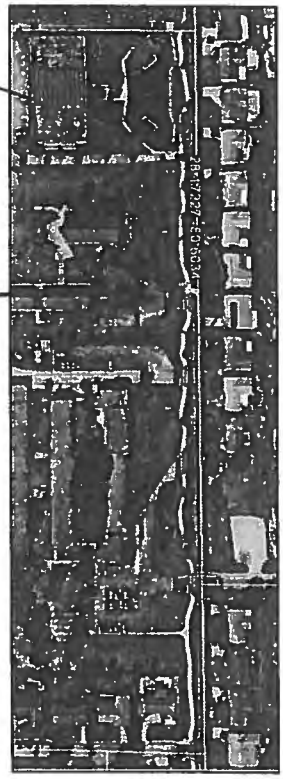
Location of storm water pipe junction opening about 4' x 10' with a raw sewage pipe that had to be flushed, cut and capped to get female #1 and calf, #2, out using backhoe.

The cement cover was opened here so that 2 manatees could be extracted- the female was too big to turn around so she was lifted out along with her calf (**light blue ovals** represent animals were extracted a using backhoe, **dark blue ovals** indicate those worked out manually) .

Manatee #1 was actually upside down and at times bent in a fetal position.



SECTION 1 EXTRACTIONS

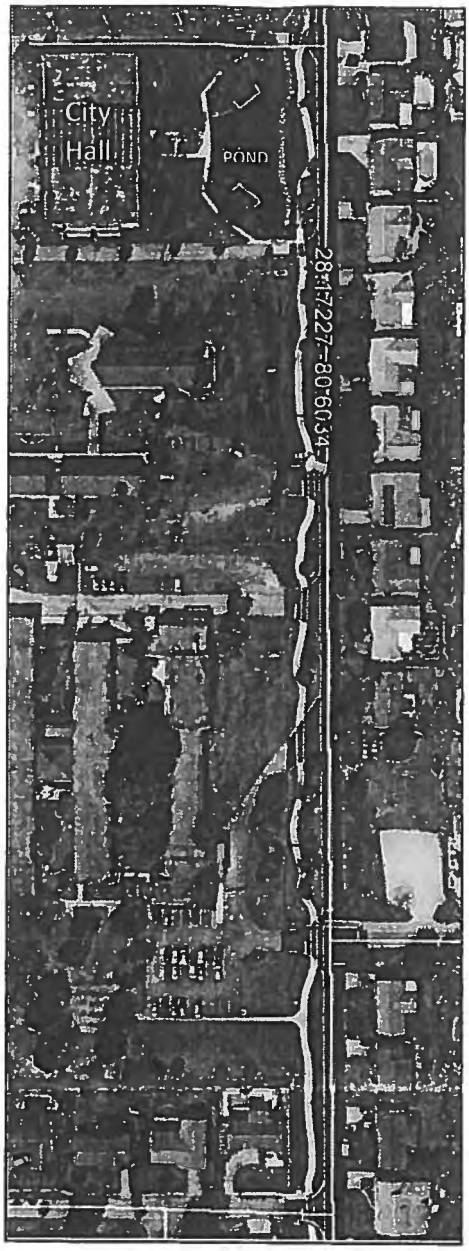


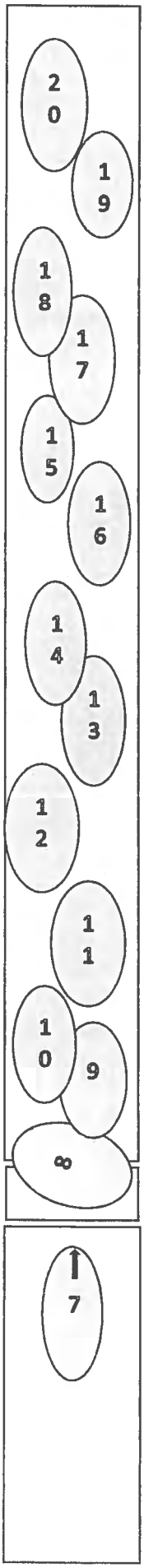
WEST

NOT TO SCALE

DRAFT

Manatee No. 6 could swim east in the pipe (pipe 2) and cross over to pipe number 1 further east where pipes were connected and then swim west towards the pond but was blocked by the other 5 manatees from exiting. It moved back and forth between the pipes until the other 5 manatees were out, then it swam out on its own through pipe #1.

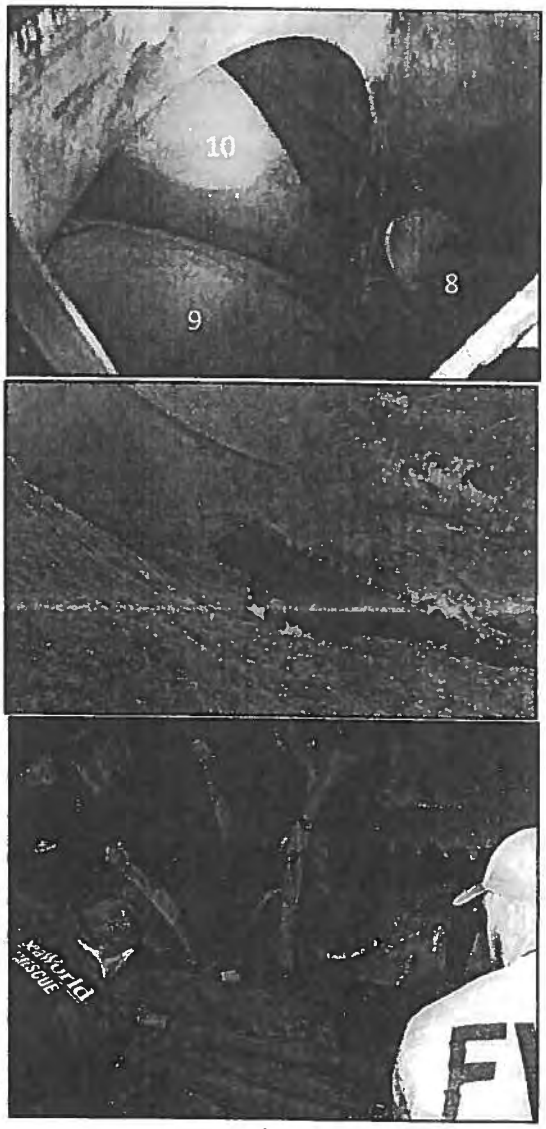




Section 2

Direction manatees # 8-20 were facing

WEST



Location where ground was dug up and pipe cut open- extraction location for all manatees in Section 2 (~11' long) starting with #7 ending with # 20

Feb. 23-24, 2015

REC1508 - REC1527
SWFTM1504 - SWFTM1523

Drainage Pipes
City Hall Pond
Point of Mom Calf Extraction
Pipe was cut animals 7-19
© 2015 Google
1994
Imagery Date: 2/13/2014 28°10'19.33" N 80°36'09.67" W elev 4 ft

MyFoxTampaBay.com

19 manatees freed after being stuck in drain

Posted: Monday, February 23, 2015 8:42 PM EST
Updated: Tuesday, February 24, 2015 5:27 AM EST

SATELLITE BEACH, Fla. (FOX 13) -

Thanks to an overnight rescue effort, 19 manatees have been released after being trapped in a Central Florida storm drain.

Three agencies- the Florida Fish and Wildlife Conservation Commission, Sea World and Satellite Beach Fire and Rescue -joined forces to free the animals.

Apparently the storm drain covers were removed, and that's how the manatees were able to get into the area.

Nearby residents said they were used to seeing the manatees in the water, so when they noticed they had been missing for a couple of days, they decided to contact authorities.

It's a good thing they did. The manatees, despite having a few scratches, are expected to be just fine since they've been freed from the drain.

Photo Gallery: 15 manatees trapped in drainpipe in Satellite Beach

Manatees Rescued After Getting Trapped In Florida Storm Drain

Reuters | By Barbara Liston
Posted: 02/24/2015 4:02 am EST
Updated: 02/24/2015 9:59 am EST

ORLANDO, Fla., Feb 23 (Reuters) - About 20 Florida manatees were freed by early Tuesday morning from a storm drain near Cape Canaveral, where they were apparently trying to warm themselves, officials and local media said.

Video footage showed a rescuer comforting one manatee floating at the opening of the pipe, which was cut open during the hours-long rescue.

The footage, posted online by Central Florida News 13 and Florida Today newspaper, also showed a manatee being carried in a sling to a nearby canal, where it was released to cheers from onlookers, and two other manatees being petted after being hoisted out of the water by heavy machinery.

The rescue in Satellite Beach, a town on the Atlantic coast 15 miles (24 km) south of Cape Canaveral, started mid-afternoon on Monday when Florida Fish and Wildlife Conservation Commission biologist, Ann Spellman, sounded the alarm, according to Florida Today.

She told the paper that her hunch led city workers to check the 100-150 feet long drain pipe.

Manatees, also known as sea cows, often leave the Indian River Lagoon during cold snaps for warmer waters in the canals and had probably followed each other into the pipe, she said.

The rescue wrapped up at about 2 a.m. local time (0600 GMT), Satellite Beach Fire Department Captain Jay Dragon said, with local police working alongside experts from SeaWorld.
(Additional reporting by Curtis Skinner; Editing by Louise Ireland

http://www.huffingtonpost.com/2015/02/24/about-20-manatees-rescued_n_6741438.html

Resc / Rel
3/2/15 1/13/11

Rescue Report

REC1528

GENERAL

Date of Rescue: 02 March 2015 Date of Initial Call: 02 March 2015 Filed by: D. Levine

Rescue ID: REC1528 Facility ID:SWFTm1524B Other ID: Cami

FWC Case Number: 2008 FWC Region: NE

Sex: Female Length: 208 cm Estimated: No Weight: 190.5 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Merritt Island County: Brevard Waterway: Banana River

Latitude (Decimal Degrees): 28.38249° N Longitude (Decimal Degrees): -80.66742° W

Locality Description: In a canal behind 1639 Shore Dr.

Method of Capture: land-based net set

REASON FOR RESCUE

Check one of the following:

- ☐ Watercraft
- ☐ Entanglement
- ☐ Entrapment (Human)
- ☒ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
02 March 2015	At 0825 hrs, FWC-Biologist Daniel A. Levine (DAL) received a text alert from FWC NE Dispatch-Orlando regarding a floating manatee in a canal behind 1639 Shore Dr., Merrit Island. FWC case number 2008 was assigned. The complainant, Joe Halasz (305-793-2251), had noticed a slowly moving manatee behind his residence approximately two days prior. He was not sure whether or not the manatee was dead or alive because the animal had not submerge for two days. The manatee did take a breath while the complainant was on the phone with DAL. DAL contacted FWC-volunteer Leo J. Cross (LJC), who was in the area, to help assess the animal. LJC arrived on scene at approximately 0850 hrs

	and verified that the animal appeared cold-stressed and needed to be rescued. DAL called FWC-Rescue coordinator Andy J. Garrett (AJG) to inform him of the rescue and Bob Wagoner (BW) at SeaWorld Orlando to see if they had space for the manatee. Upon approval, DAL and FWC-Biologist Ann C. Spellman (ACS) drove to the site. The animal was larger than reported, so ACS arranged for additional volunteer assistance. Once sufficient volunteers arrived, the net was set from land in a horseshoe pattern and the manatee was captured on the first attempt. The manatee was loaded into the transport truck at approximately 1145 hrs, and transported to SeaWorld Orlando, arriving at approximately 1245 hrs.

PARTICIPANTS:

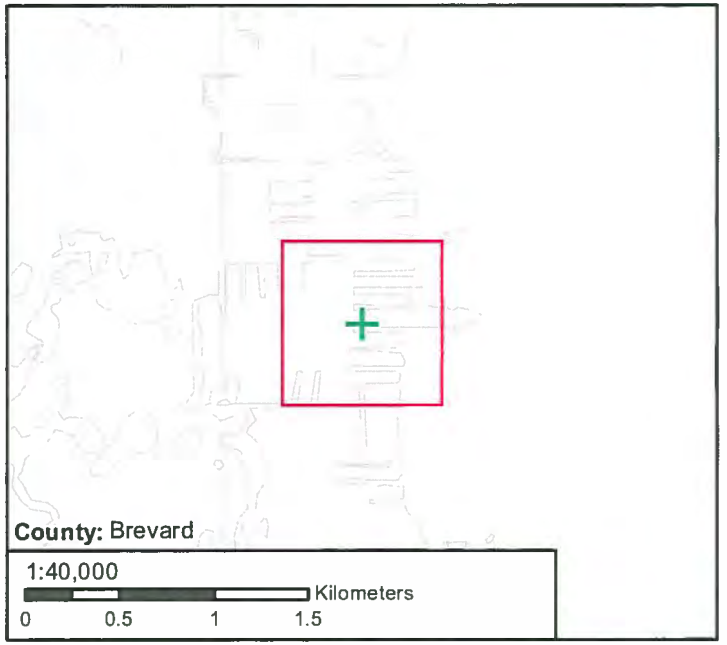
FWC EC: A. Spellman, D. Levine
FWC Volunteers: L. Cross
HSWRI: M. Stolen, W. Noke-Durden, T. Jablonski, C. Farrell

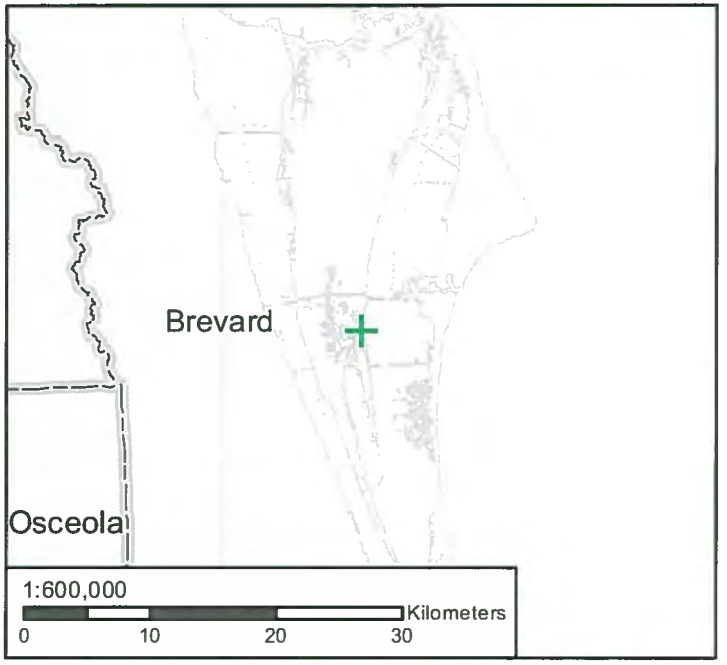
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1528

Rescue Date: 3/2/2015 **Facility ID:** SWFTm1524b Map Created 4/21/2016





Locality Description:
in canal behind 1639 Shore Drive

Latitude: 28.38249°N **Longitude:** -80.66742°W

Szemer, Donna

From: Spellman, Ann
Sent: Thursday, March 05, 2015 6:10 PM
To: Wagoner, Robert C.
Cc: Szemer, Donna; Rush, Christine; Levine, Daniel
Subject: REC1528 stats

Rel 1/13/16

Hi Bob-
Thanks for taking this critter-
Here are her stats:
Brevard, Merritt Island, Banana River, in canal behind 1639 Shore Dr.
LAT: 28.382496 LON: -80.667417
Rescued by FWC on 2 Mar 2015 (called in on same day), land net set
208 cm
Female
Cold stress

Bob, can you send me her weight and your facility number again when you get a chance? Thanks

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Garrett, Andy
Sent: Tuesday, March 03, 2015 8:11 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; Boyd, Denise; Basino, Brandon; 'Buddy Powell'; Knox, Carol; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; Gordon, Nadia; 'Gretchen Lovewell'; Honaker, Allison; Howell, Amber; Johnson, Jennifer; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Salberg, Leonard; Segelson, Carli; Spellman, Ann; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie
Subject: RE: rescue alert

The Merritt Island manatee was captured yesterday afternoon and was transported to Sea World. – REC 1528

The small manatee in Phillippi Creek was captured yesterday afternoon and transported to Lowry Park Zoo. The manatee was approximately 5-6 ft and had cold stress lesions. – RSC 1504

Unfortunately, the Phillippi Creek rescue took longer than expected so the rescue team was unable to respond to the manatee at the Fort Myers power plant.

-Andy

From: Garrett, Andy
Sent: Monday, March 02, 2015 9:09 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Brandon Basino; Buddy Powell; Carol Knox; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Jen Johnson; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie
Subject: rescue alert

Merritt Island:

The FWC-ECFL received a report of a 5-6 ft manatee swimming in circles in Merritt Island. A FWC volunteer responded and reported that the manatee appeared cold stressed and was swimming in circles. A rescue team is currently responding. If captured, the manatee will be transported to Sea World.

Fort Myers power plant:

Over the past few weeks, staff at the FWC-SWFL have been monitoring several emaciated manatees in the Fort Myers power plant discharge canal. Yesterday, a FWC biologist confirmed a 7-8 ft emaciated manatee with watercraft wounds in a shallow water portion of the discharge canal. She was able to wade up to the manatee and touch it. If the manatee is found again today, a rescue team will respond and attempt to capture it.

-Andy

Manatee Information (MLog:**1632**)

Animal ID:**SWFTm1524B** Sex:**F** Name:**Cami** Rearing:**Wild reared**

-- Release Information ----------

Release Date: 01/13/2016

-- Release Location Information ----------

Release Site: Port St John's power plant

State: FL **County:** Brevard **City:** Port St John

Waterway: Indian River Intercoastal

REC1528

-- Measurement ----------

Weight (kg): 294 **Estimated Weight?:** No **Date Weighed:** 01/09/2016

Length (cm): 225 **Estimated Length?:** No **Date Measured:** 01/09/2016

-- Other Release Information ----------

Display Water Type: Fresh

Release Water Type: Brackish/Saltwater

How many months has animal been exposed to release water type? 00

Is animal bottom feeding? Yes

Has animal been exposed to natural vegetation? Yes

Vegetation Type: Salt water vegetation

How many months has animal been exposed to vegetation? 03

Tracker:

Veterinarian: Laura Croft

Organization: SeaWorld Florida

Participating Org:

Additional Narrative: Manatee will not be tracked

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 01/14/2016

Updated By: D **Updated Date:** 01/14/2016

Manatee Information (MLog:**1632**)

Animal ID:**SWFTm1524B** Sex:**F** Name:**Cami** Rearing:**Wild reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 05/13/2015 **Tag ID** 00075DFBDB

Tag ID 00075DFBDB

Information:

Event: **Event Date**

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 05/13/2015

Updated By: D **Updated Date:** 05/13/2015

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 05/13/2015 **Tag ID** 00075A4FA8

Tag ID 00075A4FA8

Information:

Event: **Event Date**

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 05/13/2015

Updated By: D **Updated Date:** 05/13/2015

Entered
1/22/16
DJS

PIT
+
Captive

Releases

News 13

Cooper
Laverne
Cami

SeaWorld Orlando returns 3 manatees to Banana River

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

By Greg Pallone, Reporter
Last Updated: Wednesday, January 13, 2016, 4:25 PM

PORT ST. JOHN --

Three cold-stressed manatees, including a young calf, are back home in the water after being treated at SeaWorld Orlando for the past several months.

On Wednesday morning, SeaWorld staff released the trio into the warm waters of the Banana River in Brevard County.

Laverne, an orphaned manatee, was rescued by Florida Fish and Wildlife Conservation Commission workers in May 2013 in the Sykes Creek area of Merritt Island.

Cami, an adult, was brought in by workers in late 2014 from a creek in Jacksonville, and Cooper, also an adult, has been treated for cold stress since March 2015.

Laverne got a tag transmitter to track her movements, since she's not experienced in the wild.

"We want to make sure they are feeding, finding the warm water sites, in winter especially. Finding fresh water to drink," said Melody Fischer from Sea to Shore Alliance.

For information on how you can track tagged manatees movements and see their progress, go to manateerescue.org

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

SeaWorld Orlando staff released the manatees into the warm waters of the Banana River in Brevard County on Wednesday, Jan. 13, 2015.

http://www.mynews13.com/content/news/cfnews13/on-the-town/article.html/content/news/articles/cfn/2016/1/13/seaworld_orlando_ret.html

From: Spellman, Ann
Sent: Friday, January 22, 2016 2:34 PM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>; Cathy Beck <cbeck@usgs.gov>
Subject: Recent Brevard releases info

13 Jan 2016 (Note: HA data and photos done at SWF on ***12 Jan 2016*** by FWC)

REC1308/SWFTm1312B "LAVERNE"

F/ 234 cm (SWF has 235 which reflects the over the top way of measuring them they use- we re-measured it like MMPL does it at LPZ)
650lbs
Freeze brand: K1 (photos attached), otherwise clean, no scars
Location: Port St John, FPL discharge boundary
By: SWF and FWC
~~No telemetry~~ Radio tagged by S2S
PIT: R#: 00-0757-~~4FA8~~ C49B L#: 00-0757-CE93

REC1528/SWFTm1524B "CAMI"

F/232cm
650lbs
Freeze brand: N/A No scars, clean
Location: Port St John, FPL discharge boundary
By: SWF and FWC
~~Telemetry gear attached by S2S~~ Done
PIT: R#: 00-075A-~~C49B~~ 4FA8 L#: 00-075D-FBDB

RNE~~1408~~1407/SWFTm1411B "COOPER"

M/242cm
Freeze brand: N/A No scars, clean
Location: Port St John, FPL discharge boundary
By: SWF and FWC
PIT: R#: 00-075A-4839 L#: 00-06E7-7BFA

Cathy-do you want the photos/sketches of Cami and Laverne if there are no scars?
This week's releases to follow in next email ☺

Ann

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Manatee ID: 0221520 / SUWFM 15213 Capture ID: NA Data Recorder: Ann Spellman (PLW)

Name: "Coqui" Date: 12 JAN 2016

ID of its Calf / Mom: NA Sex: M / (F)

CAPTURE
Location: Merritt Island
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE 13 January 2016
Location: FPL-Ceco, Cocoa
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: _____

EVENT: ____Capture ____Rescue ✓ Pre-release Assess. ____Release ____Post-release Assess.
Workup Site: Air Temp = (60°) C (F) Wind: 7 mph ✓ Cloud Cover: S PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 650	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	NT (agitated)	
	Total Length (straight)	232	
	Snout to Peduncle	NT	
	Snout to Anus	↓	
	Snout to Umbilicus	↓	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: actual or ½	NT	
	Girth at Umbilicus: actual or ½	↓	
	Girth at Axilla: actual or ½	↓	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION		
	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	Ann Spellman
	Clinical Assessment Data Sheet?	Y / (N)

REPROD. STATUS		
	Pregnant? Y / (N) Describe:	
	Lactating?	Y / (N)

MONITORING			
	Heartrate: Stethoscope EKG Doppler None	**Data Sheets?**	Y N
	Temperature: Oral Naso-pharyngeal Rectal None		Y N
	Respiratory Rate? Y (N)		Y N

FREEZE BRAND			
	Letters/Numbers applied:	No	Applied by: n/a
	Location(s):	NA	

Form Revised: 6 December 2012

Manatee ID: CCC1528/SLEFM1524B Capture ID NA Date: 12 January 2016

BLOOD	Collect Blood? Y / (N)	Start Time	Flipper	# Tubes
	Drawn by: NA	NA	L / R	NA
			L / R	
SAMPLES Milk?	Y / (N) volume: ____ ml	Refrig / Freeze		
Urine?	Y / (N)	Refrig / Freeze / EtOH		
Fecal?	Y / (N)	Freeze / EtOH		
Skin Scraping?	Y / (N) Location:	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Skin Biopsy?	Y / (N) Location:	Refrig / Freeze / EtOH / DMSO / NBF / Slide		
Tail Cookie?	Y / (N) Location:	Freeze / / DMSO		
Mucosal Swab?	Y / (N) Oral / Rectal	Refrig		
Other?	Y / (N) Tear Film /	Freeze /		
PIT TAG	Scanned for previous PIT tag?	Y / (N) PIT tagged at this capture? (Y) / N		
	PIT tagged by:	Worl		
	Right #	D - - - 5 - - - A -		
	Left #	D - - - - - - - -		
TELEMETRY	Tag Type	Argos-GPS / PTT / VHF		
TAG	Tag ID#			
	Tag / Antenna Color(s)	Tag: Antenna:		
	VHF Frequency	164.____ MHz		
	Tag Sonic ID: FWC____	Freq: kHz Code: PI: msec		
BELT	ID# / Size / Color	FWC____ Length: ____in. Color:		
	Belt Sonic ID: FWC____	Freq: kHz Code: PI: msec		
	Belt Knot / Webbing Exposed	Left / Right ____ inches		
	CR2a Programmed Release	Y / N Date/Time:		
LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number			
	Logger Location			
TETHER	Strength / Joiner / Length	Strength: hs / tcc Length: ft.		
	Tagged by:			
PHOTOGRAPHS	Taken by:	William		
	Exposures:	Fuerza		
SKETCHES	Sketched by:	Nots		

COMMENTS * Clean, no scars

Kesc / Dth
4/1/15 4/1/15

Rescue Report REC1529

Watercraft
electronic

General

Date of Rescue: 01 April 2015 Date of Initial Call: 08 January 2015 Filed by: C. Rush

Rescue ID: REC1529 Facility ID:SWFTm1525b Other ID:

FWC Case Number: 3109 FWC Region: NE

Sex: Male Length: 258 cm Estimated: No Weight: 270 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL City: Merritt Island County: Brevard Waterway: Banana River

Latitude (Decimal Degrees): 28.30712° N Longitude (Decimal Degrees): -80.65707° W

Locality Description: approximately 15 m E of the shoreline behind 2928 Newfound Harbor Drive.

Method of Capture: Net, stretcher

Reason for Rescue

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☒ Penetrating Cuts ☒ Impact ☐ Other

Describe: Healing watercraft-related wound pattern on the mid dorsal aspect, consisting of three propeller wounds and one linear wound perpendicular and cranial to the propeller wounds. Hole in the right aspect of the linear wound, penetrating into the pleural cavity.

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
08 January 2015	FWC-biologist Christine N. Rush (CNR), FWC-biologist Ann C. Spellman (ACS), and FWC-biologist Daniel A. Levine (DAL) were conducting photo-ID and examining manatees for cold stress in the DeSoto Canal when ACS noticed a manatee floating next to the seawall with what appeared to be a recent boat strike. Upon closer inspection, the manatee appeared to be floating asymmetrically with a possible pneumothorax on the right side. ACS contacted FWC-Rescue Coordinator Andy J. Garrett (AJG) to inform him that the manatee was in need of rescue. A rescue crew was assembled, consisting of FWC staff, volunteers, and Hubbs-SeaWorld staff. Before a net could be deployed, however, the manatee swam out of the ditch and did not return that day.
09 January	At approximately1000 hrs, CNR located the manatee approximately 4 km further north in another warm-water site known as the Berkeley Canal. CNR took photos and videos of the manatee and contacted ACS to inform her that the manatee appeared to be in worse condition than the previous day. The manatee exhibited rocking behavior prior to and following each respiration and was floating noticeably higher in the water. A boat rescue in the Berkeley Canal was precluded by low bridges that prevented boats from entering. A land-based net set was also ruled our due to visibility and an estimated 200 or more other manatees in the small canal. For the next few weeks, the manatee was observed intermittently in the Berkeley Canal but rescue conditions did not improve.
06 February	DAL went to check the secondary sites for signs of distressed manatees due to recent cold weather. While at the DeSoto Canal, DAL noticed a manatee with a healing boat strike wound and a swollen right side. DAL watched the animal for about an hour before it started to do an abnormal rolling motion. The animal did it 2-3 times. Due to the severity of the animal's injuries, and the abnormal body movements, DAL contacted AJG to request approval to rescue. Permission was granted as long as a facility was willing to take the animal. DAL was unsure whether or not the animal could be removed because of approximately 170 other manatees utilizing the warm water site, so he requested that CNR and ACS assess the animal and rescue conditions before a final decision was made. CNR and ACS both decided the animal needed further observation before a rescue attempt could be made, so the rescue was postponed until the animal could be observed again. Over the next month, the manatee was observed on a regular basis in the DeSoto Canal. Its buoyancy and respirations appeared to be normal, and it was leaving daily to feed along with the other manatees, following a typical pattern

	of use at the warm-water site. The manatee did not show signs of distress when it was last seen on 06 March 2015.
01 April	At 1200 hrs, CNR responded to a text alert from FWC NE Dispatch-Orlando regarding a dead manatee in Merritt Island, Brevard County. FWC-case number 3109 was assigned. The complainant, Katie Kennedy (321-794-6097), had found a manatee near her dock behind her residence at 2970 Newfound Harbor Drive in the early hours of the morning. Several hours later, when she went back outside, she noticed the manatee was not moving and contacted Dispatch to report it as deceased. CNR requested a tow and FWC-Ofc. D. Humphrey was assigned to the case. Both CNR and Ofc. Humphrey attempted to contact the complainant and left messages. The complainant contacted CNR to inform her that the manatee was actually alive, but sitting on the bottom in very shallow water and lethargic. CNR contacted Ofc. Humphrey to inform him that she was on her way to check on the manatee and let him know he did not need to tow the manatee or remain on scene. CNR arrived at 1345 hrs and saw the manatee lying asymmetrically on the bottom in 0.5 m water. While CNR was taking photographs of the manatee, she observed the manatee struggling to crawl along the bottom to the shade of the dock. Respirations were rapid, at one to two per minute, consisting of prolonged exhalation followed by rapid, poor inhalation. CNR contacted SeaWorld-Bob Wagoner (BW) to inform him of the situation and requested a rescue team and truck. CNR also contacted AJG to inform him that the manatee appeared to be negatively buoyant, and SeaWorld could assist. CNR texted photos of the manatee to AJG. CNR observed the manatee until the SeaWorld crew arrived at 1615 hrs. Since the manatee was between two docks, the net was walked down one dock and then a line was strung over the water to the second dock. The net was then lowered into the water in a horseshoe formation to the shoreline to prevent the manatee from trying to swim away. The manatee was placed into the stretcher while it was resting in the shallow water. The manatee was walked onto shore and to the transport truck. At 2055 hrs, BW texted CNR to inform her that the manatee had expired shortly after arriving at SeaWorld (SWFTM1525B).

PARTICIPANTS

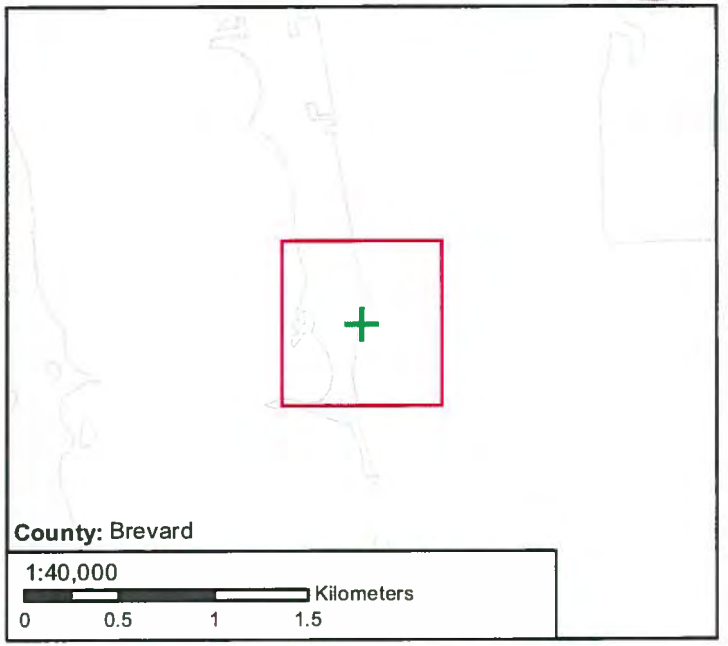
FWC: C. Rush
SeaWorld Animal Care Staff

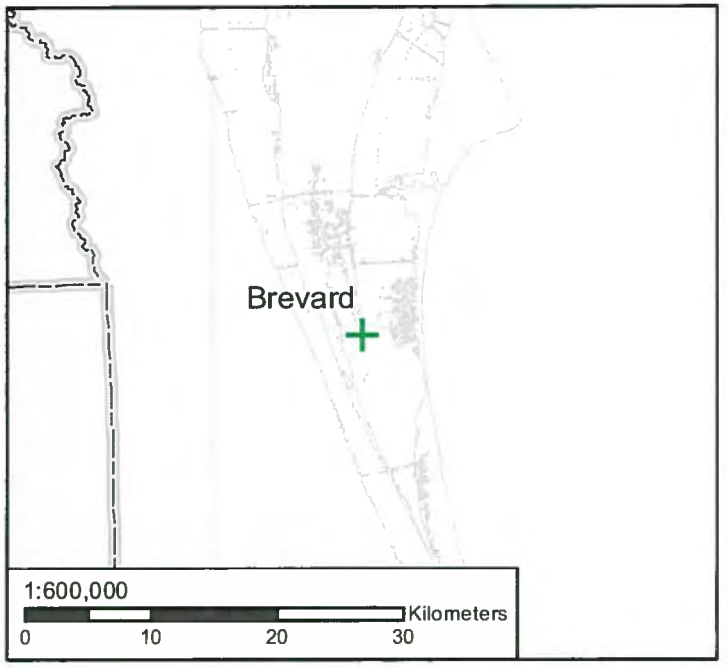
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1529

Rescue Date: 4/1/2015 **Facility ID:** SWFTm1525b Map Created 4/21/2016





Locality Description:
approximately 15 m E of the shoreline behind 2928 Newfound Harbor Drive

Latitude: 28.30712°N **Longitude:** -80.65707°W

Kesc / Dth
4/1/15

Szemer, Donna

SWFTM1525B
REC1529

From: Garrett, Andy
Sent: Wednesday, April 01, 2015 4:56 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Basino, Brandon; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Reinert, Tom; Virginia Edmonds; Ward, Leslie
Subject: RE: Rescue Alert

The Merritt Island manatee was rescued and is being transported to Sea World.

From: Garrett, Andy
Sent: Wednesday, April 01, 2015 2:24 PM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; Boyd, Denise; 'Brandon Basino'; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; Gordon, Nadia; 'Gretchen Lovewell'; Honaker, Allison; Howell, Amber; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Richmond, Kelly; Rigney, Kane; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Salberg, Leonard; Segelson, Carli; Spellman, Ann; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Tom Reinert'; 'Virginia Edmonds'; Ward, Leslie
Subject: Rescue Alert

Merritt Island:

The FWC-ECFL is currently on scene with a sub-adult manatee that appears lethargic and negatively buoyant. There is a resolving watercraft wound across the manatee's back. When the manatee does move, it has been observed pec walking and is staying in 1.5ft deep water. I have attached a photo (IMG 0940), but the quality is not great.

Sea World is organizing a response team to help with the rescue. If captured, the manatee will be transported to Sea World.

Crystal River (Hunter Spring):

The FWC-MMPL just received a report of an emaciated manatee in Hunter Spring (photo attached IMG953349; IMG 3353). The USFWS CR Refuge has been contacted and they are sending someone out to investigate.

-Andy

Szemer, Donna

From: Rush, Christine
Sent: Thursday, April 02, 2015 12:13 PM
To: Szemer, Donna
Subject: FW: SWFTm1525B

Hi Donna,
I had a rescue yesterday that died at SeaWorld a few hours later. It was REC1529 for us. Possible pyo or hemo? SeaWorld is doing the necropsy. I guess cause of rescue is boat strike, and here is the information. Let me know if you have any questions.

Thanks,
Christie

From: Rush, Christine
Sent: Thursday, April 02, 2015 11:47 AM
To: 'Wagoner, Robert C.'
Cc: 'Runnells, Randy W.'
Subject: RE: SWFTm1525B

Hey Bob,
Here's the information for the manatee...
County: Brevard
Waterway: Banana River
City: Merritt Island
REC1529
Locality Description is as follows: Merritt Island, approximately 15 meters east of the shoreline behind 2928 Newfound Harbor Drive.
Coordinates: 28.30712 N -080.657055 W

I'm interested in what they find on necropsy. Poor thing. Thanks for providing the help so quickly yesterday.

Thanks,
Christie

From: Wagoner, Robert C. [mailto:Robert.Wagoner@SeaWorld.com]
Sent: Thursday, April 02, 2015 9:41 AM
To: Rush, Christine
Subject: SWFTm1525B

Christie, would you have a chance to see us the info for the manatee rescue yesterday, since our pathologist is going to do the necropsy and page 1 of the FWC report is asking for info on locality.

Our number is SWFTm1525B, his TL was 258cm and weight was 595lbs. What is your number?

Thanks.

1. Incidental

Seine Net

Szemer, Donna

From: Reinert, Tom
Sent: Friday, April 10, 2015 1:26 PM
To: Szemer, Donna; Garrett, Andy
Cc: Howell, Amber
Subject: FW: Manatee seine

RSE1507

Should we create a rescue # and report for this case of a FIM entrapment? They never touched the animal but did guide it (walking behind maybe next to it) toward a spot where they were holding the net up.

Tom

From: Brodbeck, James
Sent: Thursday, April 09, 2015 5:38 PM
To: Reinert, Tom
Subject: Manatee seine

Location: 27 06.473N 080 08.436W

Northeast of Jimmy Graham Boat Ramp

Once the net was set, we sighted the manatee resting in shallow water against the shoreline. The manatee bumped the net a couple of times as we encouraged it to swim to an exit created by lifting the leads out of the water. The manatee escaped unharmed and slowly swam away, not showing any signs of distress. We continued the set without further incident.

J.J. Brodbeck
Fisheries Biologist
Florida Fish and Wildlife Conservation Commission
Tequesta Field Lab

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1525b**
Date of Report: 2015-Apr-01
Filed By: SeaWorld

FWC Case # 3109 **FWC Region:** NE

Sex: Male **Length:** 258 **cm** **Weight:** 270.0 **kg**

DATE REPORTED: 2015-Apr-01 **By:** SeaWorld-Orlando to MMPL-MdW

DATE COLLECTED: 2015-Apr-01 **By:** SeaWorld-Orlando

DATE NECROPSIED: 2015-Apr-02 **By:** SeaWorld-Orlando

LOCATION: **State:** FL **Latitude:** 28.30712 **N**
County: Brevard **Longitude:** -80.65707 **W**
Waterway: Banana River
Locality description: Merritt Island, approximately 15 m E of the shoreline behind 2928 Newfound Harbor Drive.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Human Related: Watercraft Collision

EXPLAIN: Propeller; Chronic; Healing watercraft wound(s); Fractured rib(s); Pyothorax; Emaciated; Relatively empty GI tract; Necrotic muscle; Displaced internal organs; Consolidated, adhered right lung; Abscesses in left lung.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone, Archive toxicology samples, Histology.

DISPOSITION OF MATERIAL: Archive Tox at SeaWorld-Orlando pending distribution.

ADDITIONAL DATA:

Histology report. Rescue report. Live animal photographs.

REMARKS:

PIT tag scan negative. Died on 01 Apr 2015. Died at 2050 hrs. Died in facility. See rescue report REC1529. First reported alive on 08 Jan 2015 with healing wounds, rescued 01 April 2015.

Page 1&2	30 MAR 2016
Necropsy Report	30 MAR 2016
Lat/Long	30 MAR 2016

Resc / Rel
5/10/15 11/3/15

Rescue Report REC1530

Watercraft

General

Date of Rescue: 10 May 2015 Date of Initial Call: 10 May 2015 Filed by: D. Levine

Rescue ID: REC1530 Facility ID: SWFTm1526b Other ID: Ama

FWC Case Number: 4754 FWC Region: NE

Sex: Female Length: 285 cm Estimated: No Weight: 486 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.19285° N Longitude (Decimal Degrees): -80.61304° W

Locality Description: Behind 734 Hawksbill Island Drive, 5 m N of dock

Method of Capture: Net set from boat

Reason for Rescue

Check one of the following:

☒ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☐ Other: (Specify): _____

Watercraft

Check all that apply:

☒ Penetrating Cuts ☒ Impact ☐ Other

Describe: linear wound and perpendicular series of three parallel propeller wounds.

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☒
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
10 May 2015	At 1158 hrs, FWC-biologist Daniel A. Levine (DAL) received a text alert FWC NE Dispatch-Orlando regarding a dead manatee. The complainant, Scott Glover (321-749-4621), believed that he had seen a large manatee pushing a dead calf in the Grand Canal, Satellite Beach, Brevard County. When DAL contacted the complainant, Mr. Glover stated that the animal was floating on its side, but was not sure if it was dead or alive. DAL requested a video and photo of the animal, which the complainant was able to supply. The video confirmed that the animal was alive, positively buoyant on the left side, and had a fresh watercraft wound on the left dorsal aspect. DAL contacted FWC-biologist Ann C. Spellman (ACS) to report that there was a manatee in need of rescue. DAL contacted Dispatch and requested officer assistance to locate the manatee and get a visual confirmation of its size and condition. DAL tried to contact Sea World (SWF) to request assistance with the rescue and to verify if they had space but was unable to contact with anyone at the park. DAL then called ACS again to inform her of the problem. ACS advised DAL that she would try to contact a SWF animal care supervisor while DAL inquired about backup help with one of the nearby field labs with a rescue boat. DAL contacted FWC-biologist Nadia J. Gordon in Jacksonville to ask for assistance in case SWF was not available for the rescue. She agreed to assist if necessary. ACS contacted SWF Animal Husbandry Curator Bill Hughes (BH), to inform him of the injured manatee and that they were unable to reach supervisory animal care staff to request help. BH advised ACS that he would contact SeaWorld Animal Husbandry supervisor Victor Marsich (VM) and tell him to contact her for details. VM contacted ACS a short time later and agreed to put together a rescue team. VM informed ACS they would respond once the manatee was sighted and that the park could accept the manatee. At 1330 hrs, DAL arrived at Pineda Causeway boat ramp, where he met FWC-Officer Brandon Kearney and FWC-Officer Morgan Maslo and they began to search the Grand Canal. Shortly thereafter, ACS called DAL to inform him that a home owner on Berkeley Canal had left a message on the FWC Indian River Field Lab office answering machine at 1135 hrs reporting a dead manatee with a large wound/scar that sounded similar to the injured manatee and in the same vicinity as the original call. DAL checked that canal, but the animal was no longer there. At 1350 hrs, DAL informed ACS that the manatee had been located 200 m north of the Tortoise Island Bridge, that it was alive, and that it possibly had a dependent calf. DAL advised ACS that they would follow the manatee until she and SWF arrived. ACS called SWF to let them know that the animal had been located with a calf and was in need of rescue. ACS provided SWF with entry information and directions to the Patrick Air Force Base marina. The rescue team was able to launch from the base marina by 1712 hrs. Travel to the

	location of the manatee was slow due to the manatee slow speed zones and the slow but steady movement of the mother/calf pair farther south in the Grand Canal. At 1830 hrs, ACS and the SWF rescue crew met DAL and the FWC officers behind a house at 734 Hawksbill Island Dr. A net set was conducted from the SWF boat, successfully encircling both mother and calf (REC1531) on the first attempt. Both manatees were pulled into the rescue boat. The manatees were taken back to PAFB and loaded into the SWF rescue truck by 1940 hrs. Further examination of the adult revealed a badly sunburned linear wound and three fresh propeller wounds. The manatees were transported to SeaWorld by SWF staff.

PARTICIPANTS

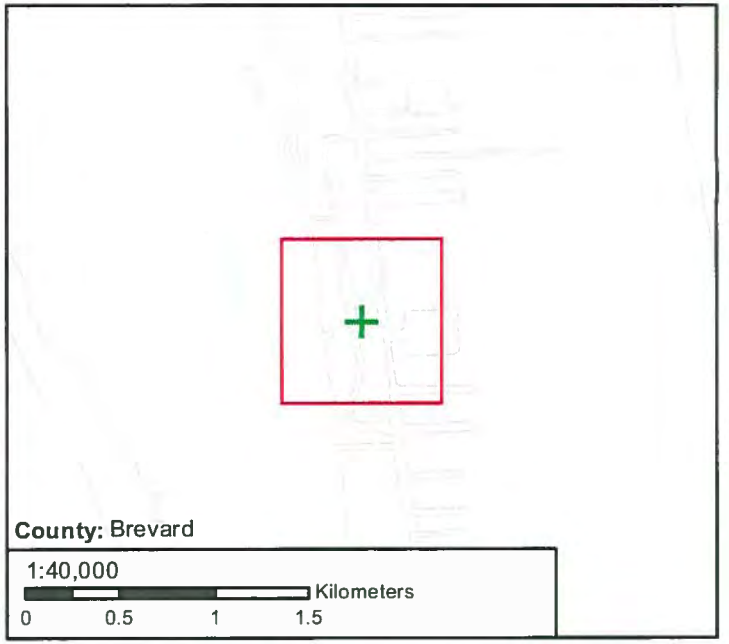
FWC EC: D. Levine, A. Spellman, (Vol) J. White
FWC LE: Ofc. B. Kearney, Ofc. M. Maslo,
SeaWorld Animal Care Staff

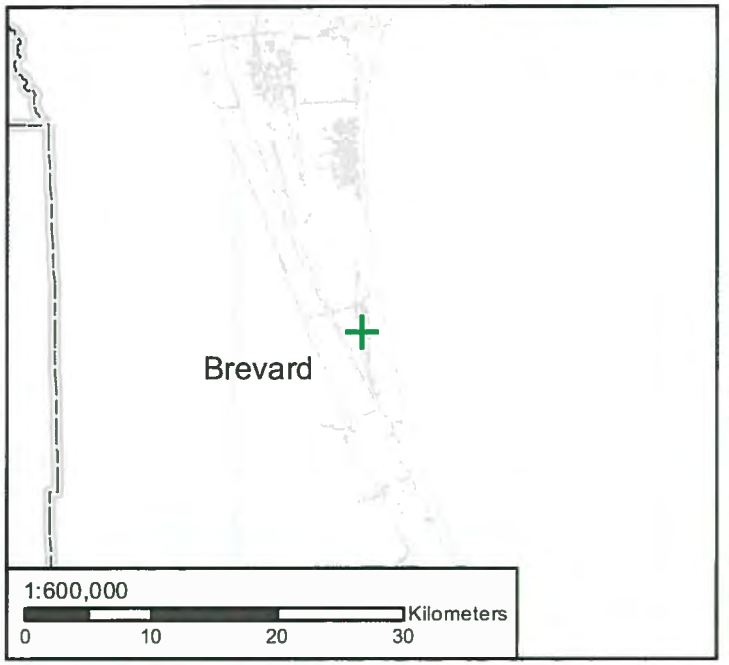
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1530

Rescue Date: 5/10/2015 **Facility ID:** SWFTm1526b Map Created 4/29/2016





Locality Description:
behind 734 Hawksbill Island Drive, 5 m N of dock

Latitude: 28.19285°N **Longitude:** -80.61304°W

Resc/Rel 11/3/15

Watercraft

GENERAL

Date of Rescue: 10 May 2015 Date of Initial Call: 10 May 2015 Filed by: DAL

Rescue ID: REC15~~0~~30 Facility ID: SWFTm1526~~0~~ Other ID:

FWC Case Number: 4754 FWC Region: NE

Sex: Female Length: 285cm Estimated: Weight: 1070 ~~kg~~ 165 Estimated:

PIT Tag Present: PIT Tag Applied: R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1928417 ° N Longitude (Decimal Degrees): -080.6130333 ° W

Locality Description: Behind 734 Hawksbill Island Drive, 5 meters north of dock

Method of Capture: Net set from boat

REASON FOR RESCUE

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress	Red Tide	Tidally Stranded
Orphan	Other: (Specify): _____	

Watercraft

Check all that apply:

Penetrating Cuts Impact Other

Describe: Impact causing pneumothorax on left dorsal aspect, with three propeller mutilations.

Taken to Sea World

Szemer, Donna

From: Garrett, Andy
Sent: Monday, May 11, 2015 8:29 AM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: Rescue Alert and Updates
Attachments: IMG_0396 resized.jpg; IMG957203.jpg; IMG950147.jpg

Cape Coral:

Yesterday afternoon, the FWC-SWFL received a report of a 3-4 ft lone manatee in Cape Coral (see photo IMG950147).

The manatee was reported alone again this morning. A rescue team is heading to the manatee's location. If captured, the manatee will be taken to Lowry Park Zoo.

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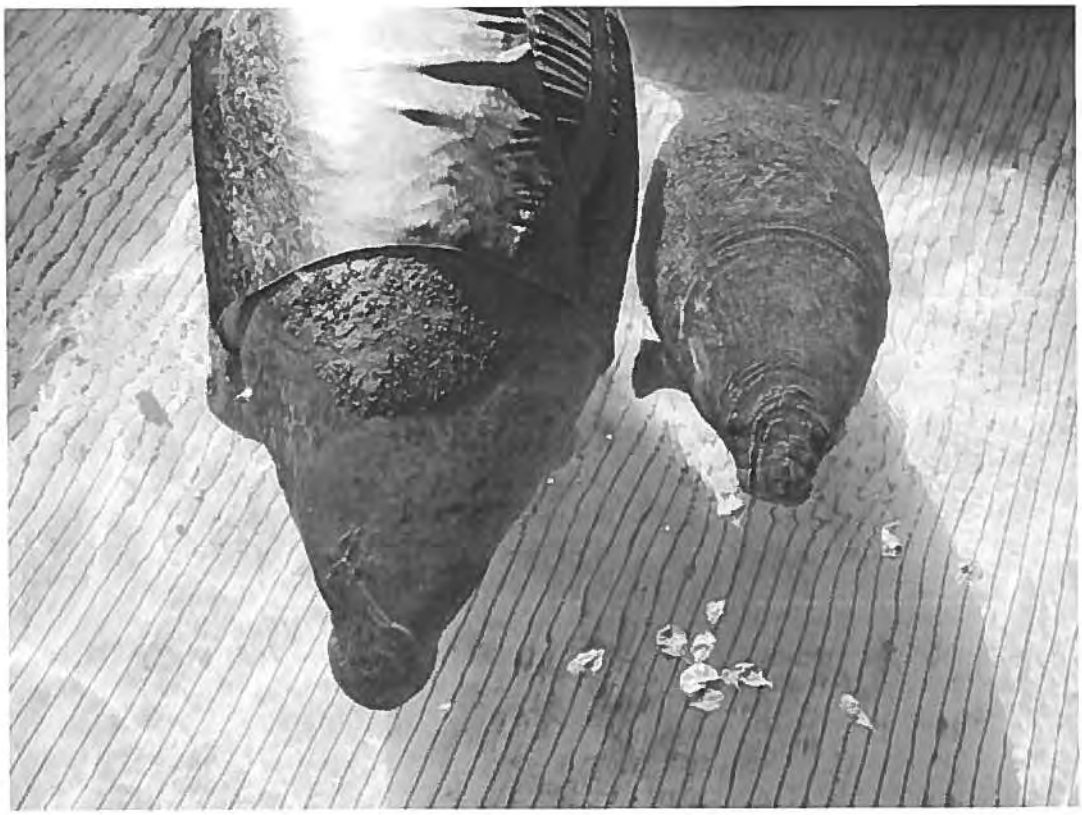
-Andy

Mama manatee gets a wetsuit for Mother's Day

Jim Waymer, FLORIDA TODAY *2:04 p.m. EDT May 13, 2015*



(Photo: SeaWorld)

A tight, purple wetsuit helps this mama manatee stay afloat.

This past Sunday, Mother's Day, SeaWorld rescuers responded to a distressed mother manatee and her still-nursing calf near Satellite Beach.

Rescuers brought the pair to SeaWorld.

The mother had a collapsed lung, which creates buoyancy problems, so SeaWorld fitted her with a "manatee wetsuit" the park designed especially for such cases.

The wetsuit helps the manatee float and enables rescuers to draw out trapped air and fluids.

The mother manatee weighs 1,070 pounds, is 9 feet long and is about 10 years old. Her injuries were caused by a watercraft strike, SeaWorld officials said.

The male calf, estimated to be 2 to 3 years old, was unharmed, but is still nursing and dependent on its mother.

SeaWorld will closely monitor the manatee's progress.

Contact Waymer at 321-242-3663 or jwaymer@floridatoday.com. Follow him on Twitter ***@JWayEnviro***

http://www.floridatoday.com/story/news/local/2015/05/13/mamma-manatee-gets-wetsuit-mothers-day/27241717/

Manatee Information (MLog:**1664**)

Animal ID:**SWFTm1526B** Sex:**F** Name: Rearing:**Wild reared**

-- Release Information ----------

Release Date: 11/03/2015

-- Release Location Information ----------

Release Site: Kars park

State: FL **County:** Brevard **City:** Merritt island

Waterway: Banana River

-- Measurement ----------

Weight (kg): 494 **Estimated Weight?:** No **Date Weighed:** 10/10/2015

Length (cm): 280 **Estimated Length?:** No **Date Measured:** 10/10/2015

-- Other Release Information ----------

Display Water Type:

Release Water Type:

How many months has animal been exposed to release water type?

Is animal bottom feeding?

Has animal been exposed to natural vegetation?

Vegetation Type:

How many months has animal been exposed to vegetation?

Tracker:

Veterinarian: Scott Gearhart

Organization: SeaWorld Florida

Participating Org: FWC, Sea World

Additional Narrative: Watercraft injured manatee released with it's dependent calf.

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 11/03/2015

Updated By: D **Updated Date:** 11/03/2015

Manatee Information (MLog:**1664**)

Animal ID:**SWFTm1526B** Sex:**F** Name: Rearing:**Wild reared**

-- Tag Information ----------

Tag Type: Pit Tag Left **Date Applied:** 10/29/2015 **Tag ID** 00075A5CDC

Tag ID 00075A5CDC

Information: Left shoulder

Event: **Event Date**

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 10/29/2015

Updated By: D **Updated Date:** 10/29/2015

-- Tag Information ----------

Tag Type: Pit Tag Right **Date Applied:** 10/29/2015 **Tag ID** 00075A11EB

Tag ID 00075A11EB

Information: Right shoulder

Event: **Event Date**

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 10/29/2015

Updated By: D **Updated Date:** 10/29/2015

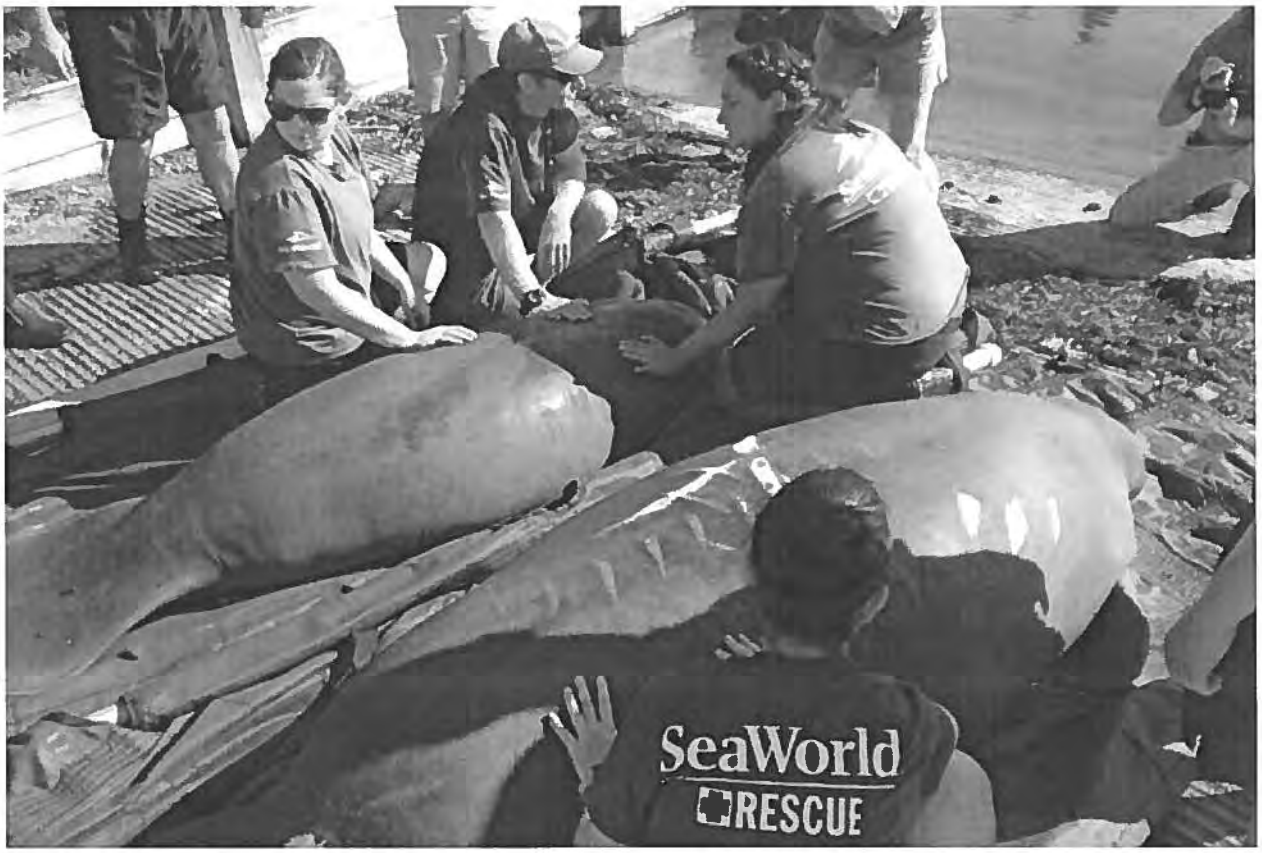
Entered
PIT
+
Captive
11/4/15
DJS

News 13

SWFTM1526B
REC1530

Manatee mom, calf released as Manatee Awareness Month starts

+
SWFTM1527B
REC1531



SeaWorld rescue and FWC prepare to release a manatee mother and calf back into the wild in Merritt Island. (Greg Pallone, Staff)

By Greg Pallone, Brevard County Reporter
Last Updated: Tuesday, November 03, 2015, 11:24 PM

MERRITT ISLAND --

November marks "Manatee Awareness Month" and officials are cautioning boaters to watch out for the sea cows who are heading toward warmer waters.

Florida Fish and Wildlife says the story of two manatees released into the wild on Tuesday is a prime example of why people should pay better attention.

The mother manatee and her young calf are now in natural waters at Merritt Island's Kars Park. The mom was struck by a boat in the Satellite Beach area in May. FWC and SeaWorld were able to round them both up. Over the past few months they've nursed the large manatee back to good health and kept the pair together.

"We were fortunate to catch both," FWC Biologist Ann Spellman said.

Thirty percent of manatee deaths are due to watercraft.

This month is focused on protecting sea cows, especially as they are on the move this time of year because water temperatures drop below 68 degrees.

"This time of year you have a lot of manatees moving, they are going to be moving to the warmer waters, and they are going to be traveling in the main waterways," said FWC Officer Lenny Salberg.

That's why seasonal manatee zones go into effect Nov. 15. With nearly 4,000 manatees counted statewide, you can see why it's highly likely a boater might encounter one in the zones.

That's what happened to the mother manatee.

As the mother and child were released, the Meyer family of Orlando looked on.

"They got rescued and then they went home," said Addison Meyer.

Now the family wants to help spread the word to boaters that the manatees are on the move.

"They just need to slow it down a bit and watch out around them," Addison's father, Dale said.

http://www.mynews13.com/content/news/cfnews13/news/article.html/content/news/articles/cfn/2015/11/3/manatee_mom_cub_retu.html

Rese/Rel
5/10/15 11/3/15

Rescue Report REC1531

Calf of Rese. Mom

General

Date of Rescue: 10 May 2015 Date of Initial Call: 10 May 2015 Filed by: D. Levine/ A. Spllman

Rescue ID: REC1531 Facility ID: SWFTm1527b Other ID: Mitiko

FWC Case Number: 4754 FWC Region: NE

Sex: Male Length: 203 cm Estimated: No Weight: 161 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.19288° N Longitude (Decimal Degrees): -080.61304° W

Locality Description: Behind 734 Hawksbill Island Drive, 5 m N of dock

Method of Capture: Net set from boat

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Dependent Calf of REC1530

Visual Record

	Photo - Digital	Video
Rescue Location	☒	☐
Animal Before Rescue	☒	☒
Actual Rescue	☒	☒
Animal After Rescue	☒	☐
Wounds	☒	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
10 May 2015	At 1350 hrs, FWC-biologist Daniel A. Levine (DAL) and FWC-LE officers were searching for a reported watercraft-injured manatee near the Tortoise Island Bridge, Satellite Beach. Upon discovery, DAL noted that the manatee was accompanied by a previously unreported, possibly dependent, calf. DAL advised FWC-biologist Ann C. Spellman (ACS) that they would follow the manatees until she and Sea World (SWF) arrived. ACS called SWF to let them know that the animal had been located with a calf and was in need of rescue. ACS provided SWF with entry information and directions to Patrick Air Force Base marina. The rescue team was able to launch from the base marina by 1712

	hrs. Travel to the location of the manatee was slow due to the manatee slow speed zones and the slow but steady movement of the mother/calf pair farther south in the Grand Canal. At 1830 hrs, ACS and the SWF rescue crew met DAL and the FWC officers behind a house at 734 Hawksbill Island Dr. A net set was conducted from the SWF boat, successfully encircling both mother (REC1530) and calf on the first attempt. Both manatees were pulled into the rescue boat. FWC Ofc. Kearney and Maslo escorted the rescue boat into the Banana River so that it could maintain a speed necessary to eliminate water from the boat's deck. The manatees were taken back to PAFB and loaded into the SWF rescue truck by 1940 hrs. Further examination of the adult revealed a badly sunburned linear wound and three fresh propeller wounds. The manatees were transported to SeaWorld by SWF staff.

PARTICIPANTS

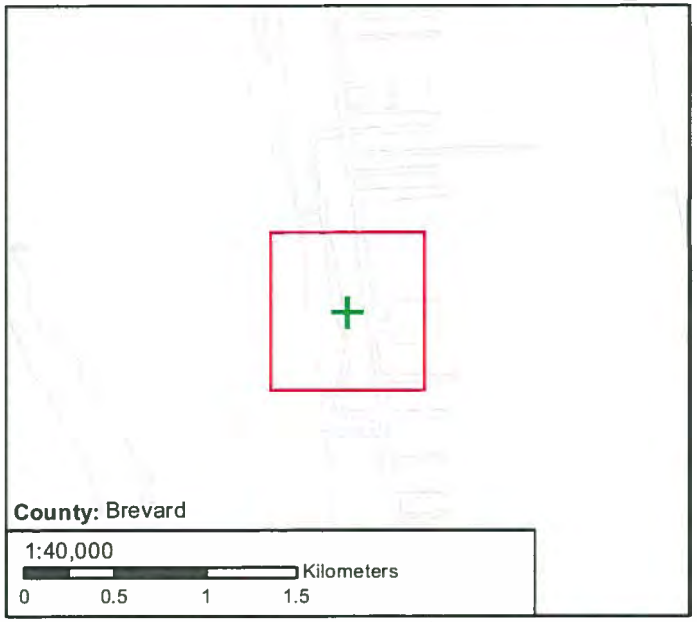
FWC EC: D. Levine, A. Spellman, (Vol) J. White
FWC LE: Ofc. B. Kearney, Ofc. M. Maslo
SeaWorld Animal Care Staff

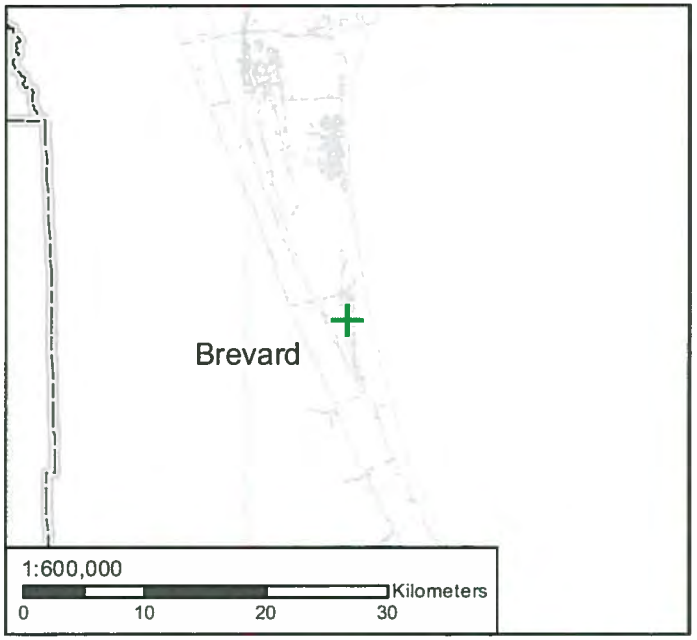
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1531

Rescue Date: 5/10/2015 **Facility ID:** SWFTm1527b Map Created 4/29/2016





Locality Description:
behind 734 Hawksbill Island Drive, 5 m N of dock

Latitude: 28.19288°N **Longitude:** -80.61304°W

Resc/Rel 11/3/15
Calf of Resc Mom

GENERAL

Date of Rescue: 10 May 2015 Date of Initial Call: 10 May 2015 Filed by: DAL

Rescue ID: REC15~~X~~31 Facility ID: SWFTm1527B Other ID:

FWC Case Number: 4754 FWC Region: NE

Sex: Male Length: 203cm Estimated: Weight: 355 ~~kg~~ lbs Estimated:

PIT Tag Present: PIT Tag Applied: R: L:

State: FL City: Satellite Beach County: Brevard Waterway: Grand Canal

Latitude (Decimal Degrees): 28.1928417 ° N Longitude (Decimal Degrees): -080.6130333 ° W

Locality Description: Behind 734 Hawksbill Island Drive, 5 meters north of dock

Method of Capture: Net set from boat

REASON FOR RESCUE

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress	Red Tide	Tidally Stranded
Orphan	Other: (Specify): __Dependent Calf of Watercraft Mother_____	

Taken to Sea World

Szemer, Donna

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Sent: Monday, May 11, 2015 8:29 AM
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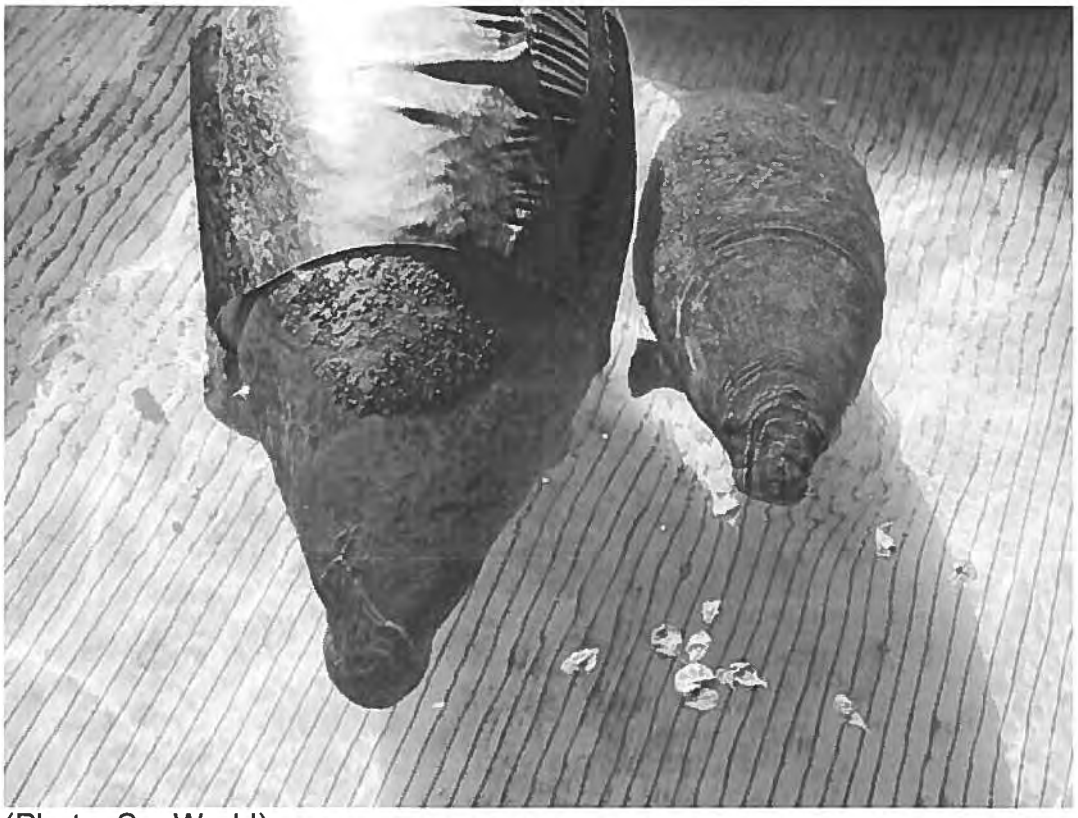

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Contact Waymer at 321-242-3663 or jwaymer@floridatoday.com. Follow him on Twitter ***@JWayEnviro***

http://www.floridatoday.com/story/news/local/2015/05/13/mamma-manatee-gets-wetsuit-mothers-day/27241717/

Manatee Information (MLog:**1665** , Dam:**1664**)

Animal ID:**SWFTm1527B** Sex:**M** Name: Rearing:**Wild reared**

-- Release Information ----------

Release Date: 11/03/2015

-- Release Location Information ----------

Release Site: Kars Park

State: FL **County:** Brevard **City:** Merritt Island

Waterway: Banana river

-- Measurement ----------

Weight (kg): 161 **Estimated Weight?:** No **Date Weighed:** 10/10/2015

Length (cm): 203 **Estimated Length?:** No **Date Measured:** 10/10/2015

-- Other Release Information ----------

Display Water Type:

Release Water Type:

How many months has animal been exposed to release water type?

Is animal bottom feeding?

Has animal been exposed to natural vegetation?

Vegetation Type:

How many months has animal been exposed to vegetation?

Tracker:

Veterinarian: Scott Gearhart

Organization: SeaWorld Florida

Participating Org: FWC and Sea World

Additional Narrative: Dependent calf of mother SWF Tm 1526B

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 11/03/2015

Updated By: D **Updated Date:** 11/03/2015

Manatee Information (MLog:**1665** , Dam:**1664**)
Animal ID:**SWFTm1527B** Sex:**M** Name: Rearing:**Wild reared**

-- Tag Information ----------
Tag Type: Pit Tag Left **Date Applied:** 10/29/2015 **Tag ID** 00075A6006
Tag ID 00075A6006
Information: Left shoulder
Event: **Event Date**
-- Report Information ----------
Created By: Randy Runnells **Created Date:** 10/29/2015
Updated By: D **Updated Date:** 10/29/2015

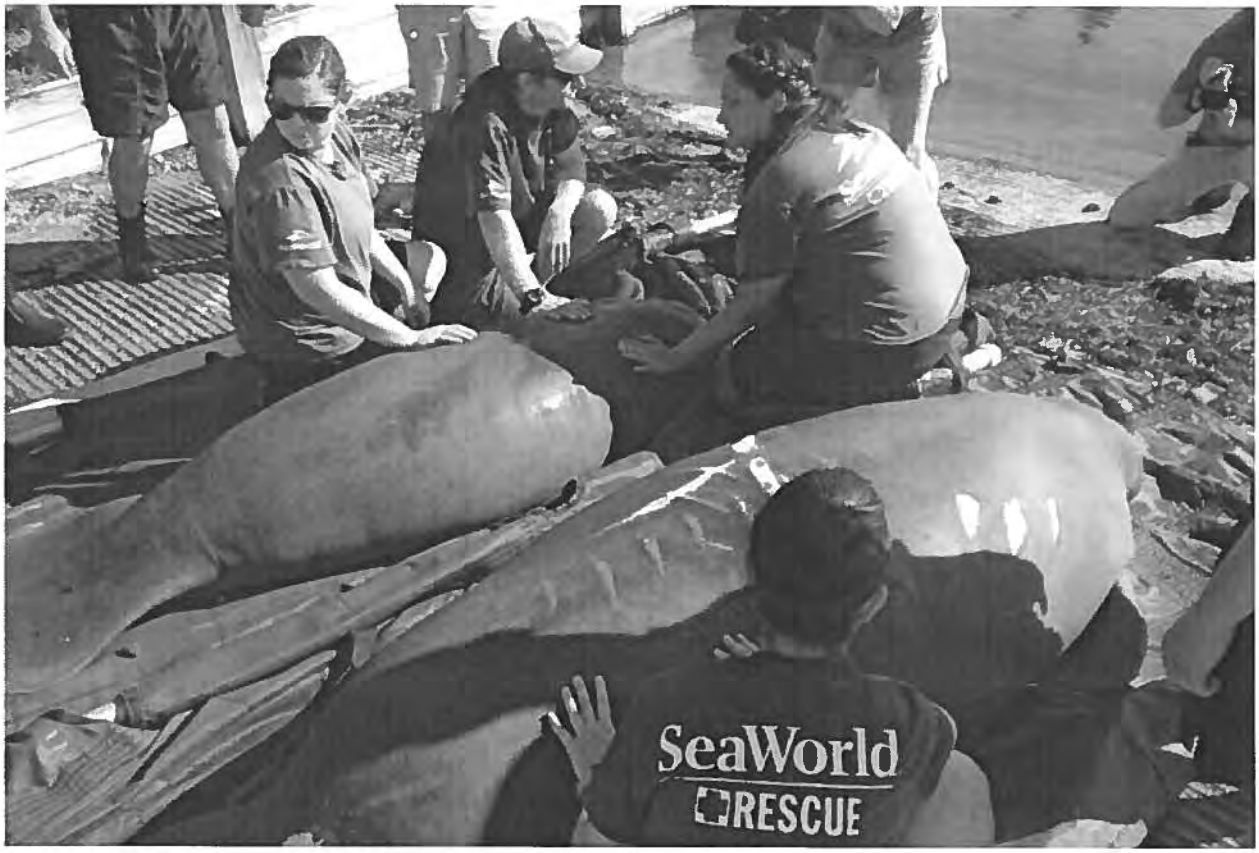
-- Tag Information ----------
Tag Type: Pit Tag Right **Date Applied:** 10/29/2015 **Tag ID** 00075A3581
Tag ID 00075A3581
Information:
Event: **Event Date**
-- Report Information ----------
Created By: Randy Runnells **Created Date:** 10/29/2015
Updated By: D **Updated Date:** 10/29/2015

Entered
PIT
&
Captive
11/4/15
DJS

News 13

SWFTM1527B
REC1531
+
SWFTM1526B
REC1530

Manatee mom, calf released as Manatee Awareness Month starts



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http://www.mynews13.com/content/news/cfnews13/news/article.html/content/news/articles/cfn/2015/11/3/manatee_mom_cub_retu.html

Resc / Dth
6/26/15 / 6/26/15

Rescue Report

REC1532

Calf by itself!

GENERAL

Date of Rescue: 26 June 2015 | Date of Initial Call: 26 June 2015 | Filed by: D. Levine

Rescue ID: REC1532 | Facility ID: NA | Other ID: MEC15071

FWC Case Number: 6861 | FWC Region: NE

Sex: Female | Length: 110 cm | Estimated: No | Weight: 20 kg | Estimated: No

PIT Tag Present: No | PIT Tag Applied: No | R: | L:

State: FL | City: Kennedy Space Center | County: Brevard | Waterway: Banana River

Latitude (Decimal Degrees): 28.52818° N | Longitude (Decimal Degrees): -80.5898° W

Locality Description: Grounded in the shallows 290 m ENE of the Kennedy Space Center Firehouse II

Method of Capture: Capture by hand

REASON FOR RESCUE

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

All Other

Describe: Emaciated orphan calf

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
June 27, 2015	At 1013 hrs, FWC-Biologist Daniel A. Levine (DAL) received a text alert from FWC NE Dispatch-Orlando regarding a distressed orphan calf at Kennedy Space Center. The complainant, U. S. Air Force Biologist Martha Carrol had been notified of a small baby manatee by a construction worker. She reported to DAL that the manatee was grounded, could not move, and that there were no other manatees present. DAL asked the complainant to cover the animal and

	keep it wet. DAL verified with Steve Lear at Sea World Florida that they could receive the animal. At 1145 hrs, DAL and FWC-Biologist Christine N. Rush (CNR) arrived on site. The animal was picked up and carried in a wet sheet and placed in the transport truck. After several minutes, CNR asked DAL to pull over at the canoe launch at the NASA AF Hangar to try and get the calf to breathe regularly. At approximately 1155 hrs the manatee expired (MEC15071). DAL and CNR returned to the ECFL and covered the calf with ice for transport to MMPL.

PARTICIPANTS:

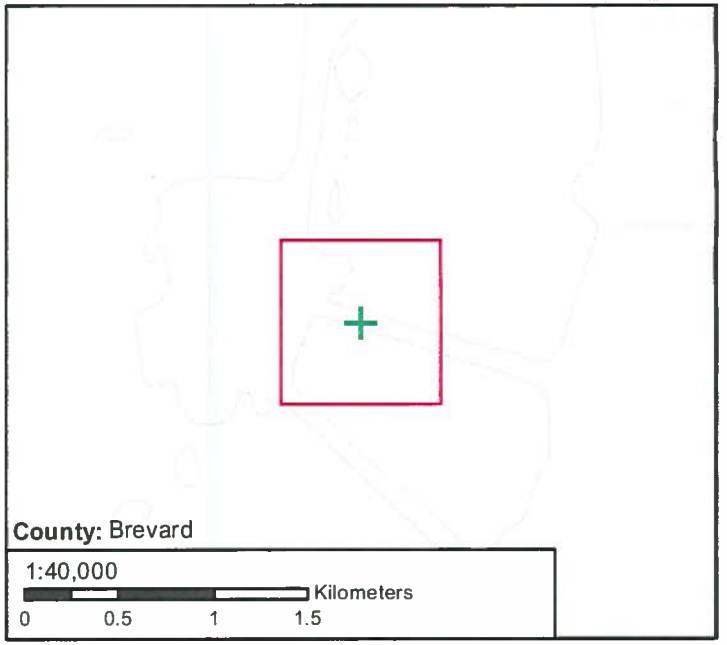
FWC EC: Daniel A. Levine, Christine N. Rush
US Air-Force Biologist Martha Carrol

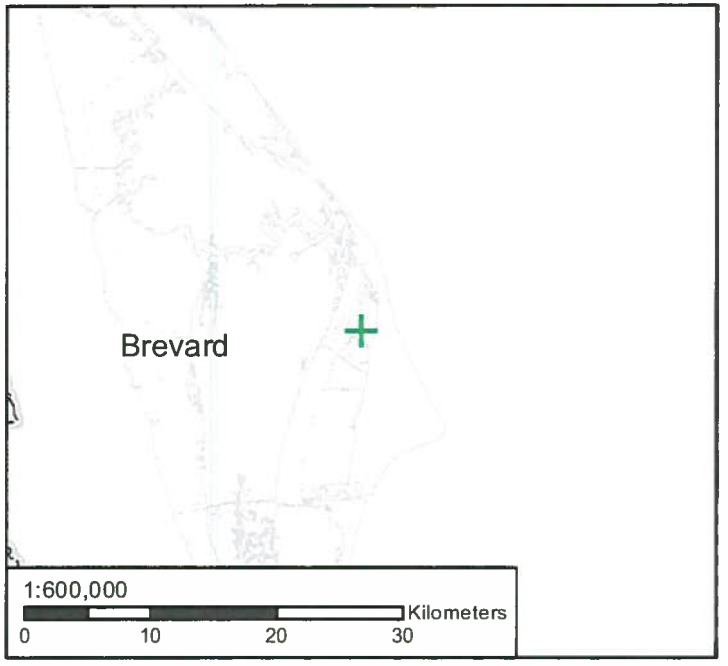
Edited by:
TRR
DJS
AJG

(02/20/2013)

Verified Response Location of Manatee Rescue REC1532

Rescue Date: 6/26/2015 **Facility ID:** N/A Map Created 4/29/2016





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in the shallows 290 m ENE of the Kennedy Space Center Firehouse II

Latitude: 28.52818°N **Longitude:** -80.5898°W

Szemer, Donna

From: Garrett, Andy
Sent: Friday, June 26, 2015 2:46 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; pamela Sweeney; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: rescue update

The calf passed away shortly after being loaded into the transport truck.

From: Garrett, Andy
Sent: Friday, June 26, 2015 11:38 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; Boyd, Denise; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; Gordon, Nadia; 'Gretchen Lovewell'; Honaker, Allison; Howell, Amber; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nicole Adimey'; 'pamela Sweeney'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; Rigney, Kane; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Salberg, Leonard; Segelson, Carli; Spellman, Ann; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie; Young, Roger
Subject: rescue alert

Cape Canaveral:

FWC ECFL staff are on their way to respond to a beached 3 ft manatee. Citizen's on-scene have covered the manatee with a wet towel. Based on photos, ECFL staff feel the calf is in poor body condition (visible skeletal structures through the skin).

Sea World has agreed to accept the manatee.

-Andy

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **MEC15071**
Date of Report: 2015-Jun-26
Filed By: FWC MMPL

FWC Case # 6861 **FWC Region:** NE

Sex: Female **Length:** 110 **cm** **Weight:** 20.0 **kg**

DATE REPORTED: 2015-Jun-26 **By:**

DATE COLLECTED: 2015-Jun-26 **By:** FWC-CNR,DAL

DATE NECROPSIED: 2015-Jun-29 **By:** MMPL-MdW,AJG,ALP,GLL FWC-DAL

LOCATION: **State:** FL **Latitude:** 28.52818 **N**
County: Brevard **Longitude:** -80.5898 **W**
Waterway: Banana River
Locality description: Kennedy Space Center, grounded in the shallows 290 m ENE of the Kennedy Space Center Firehouse II .

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Perinatal (<= 150 cm)

EXPLAIN: Natural: Orphaned/Abandoned Calf; Emaciated; Fetal folds; Skin lesions; Thickened epidermis; Upper GI tract filled with thick black and brown fluid; Congested peritoneum, mesenteries, meninges; Bloody liver.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal, Other (wounds, body condition).

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology, Partial skeleton (sternum).

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Rescue report.

REMARKS:

PIT tag scan negative. Bulbous region in urachus at bladder tip, filled with old and new blood clots. Umbilical arteries closed but probe patent and filled with blood clots. Died on 26 Jun 2015. Died at 1155 hrs. See rescue report REC1532.

Page 1&2	
Necropsy Report	
Lat/Long	

Rese 7/7/15

Rescue Report

REC1533

Calf by itself

General

Date of Rescue: 07 July 2015		Date of Initial Call: 07 July 2015		Filed by: C. Rush
Rescue ID: REC1533		Facility ID: SWFTm1528b		Other ID: ONeil
FWC Case Number: 7375		FWC Region: NE		
Sex: Male	Length: 95 cm	Estimated: No	Weight: 14 kg	Estimated: No
PIT Tag Present: No	PIT Tag Applied:	R:	L:	
State: FL	City: Merritt Island	County: Brevard		Waterway: Indian River
Latitude (Decimal Degrees): 28.21247° N		Longitude (Decimal Degrees): - 80.64581° W		
Locality Description: 350 m W of 8085 South Tropical Trail				
Method of Capture: Hoop net				

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
07 July 2015	At 1056 hrs, FWC-biologist Christine N. Rush (CNR) received a text alert from FWC NE Dispatch-Orlando regarding a possible orphaned manatee in Merritt Island, Brevard County. FWC case number 7375 was assigned. The complainant, Megan Campbell (321-750-9472), was on her wave runner with a friend when they noticed a small manatee struggling to swim at the surface. The complainant estimated the calf to be only a few feet long and did not see any other manatees in the area. CNR requested a photograph of the manatee to be sent to her phone. CNR concurred that the manatee appeared to be an orphaned calf and she requested that the complainant stay with the calf until a rescue

	team could arrive. CNR requested officer assistance from Dispatch and was informed that FWC-Ofc. R. Cybula was available to assist. Meanwhile, CNR contacted SeaWorld-Randy Runnells to verify that they could accept the orphan and also contacted FWC-Andy J. Garrett (AJG) to inform him of the situation. FWC-biologist Ann C. Spellman (ACS) contacted FWC-biologist Daniel A. Levine (DAL) on his day off to request assistance. DAL and met Ofc. Cybula at the Pineda Boat Ramp by 1230 hrs. CNR contacted the complainant for an updated location. Upon arrival at the location, the manatee was found swimming upside down. CNR and DAL hoop netted the calf immediately and placed it into a cooler filled with water. The manatee was fractious and seemed disoriented. DAL and CNR gently restrained the manatee in the cooler for the short trip across the river where ACS met them with the transport truck. The manatee was transported to SeaWorld by 1440 hrs.

PARTICIPANTS

FWC EC: C. Rush, D. Levine, A. Spellman

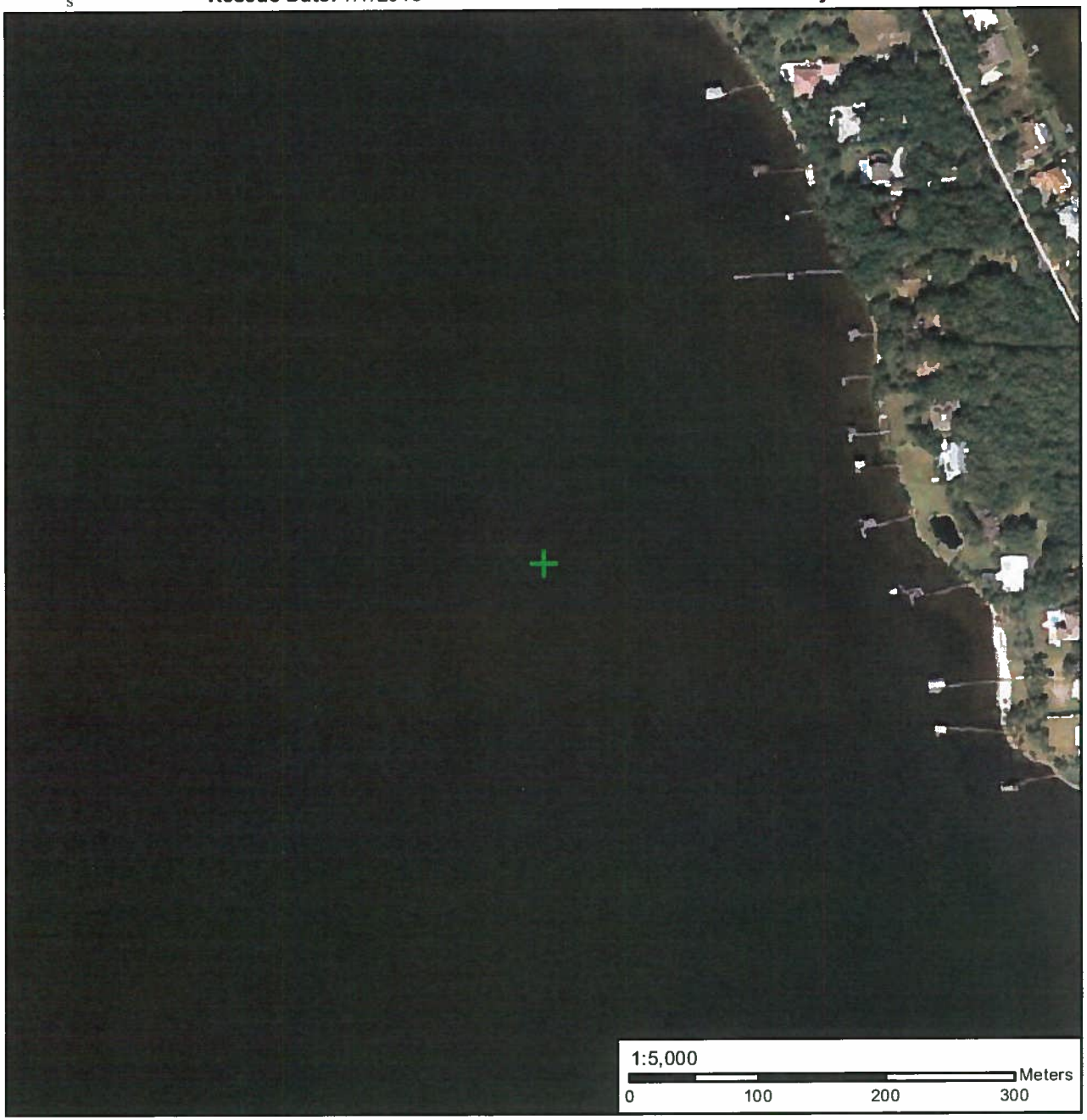
Edited by:

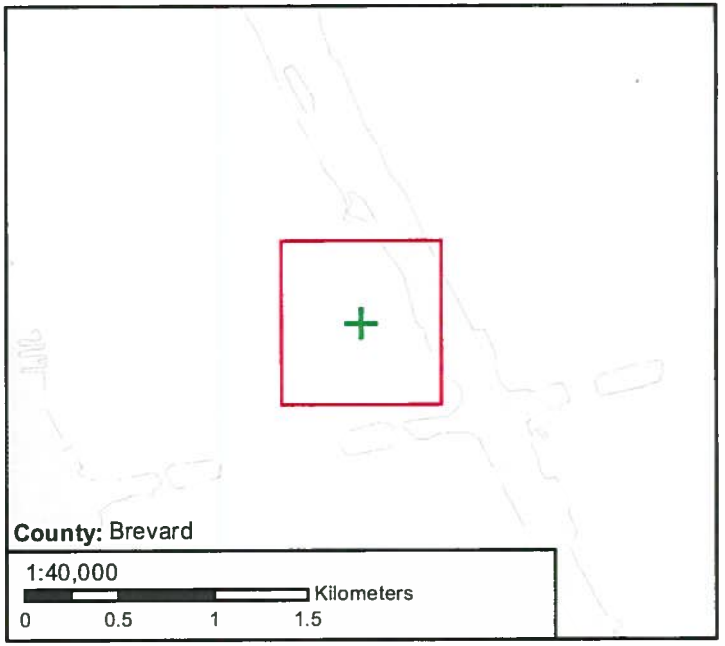
TRR
DJS
AJG

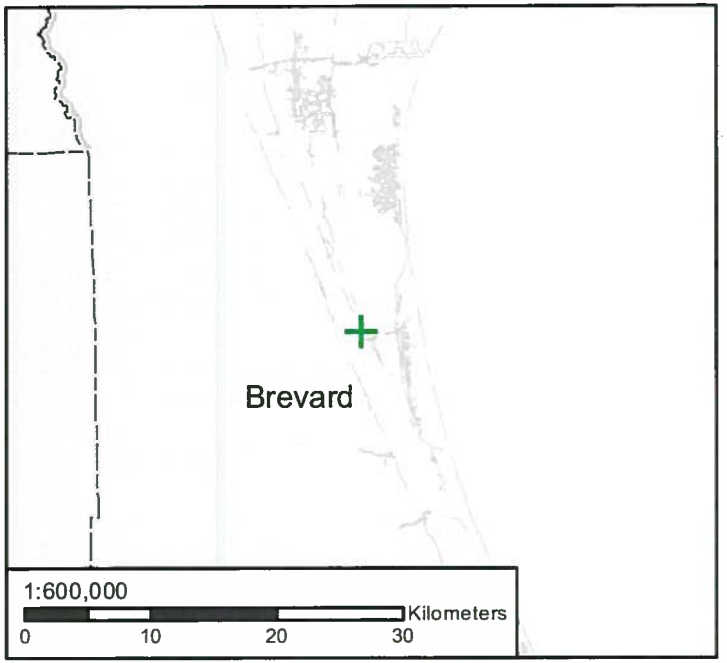
(02/20/2013)

Verified Response Location of Manatee Rescue REC1533

Rescue Date: 7/7/2015 **Facility ID:** SWFTm1528b Map Created 4/29/2016







Locality Description:
350 m W of 8085 South Tropical Trail

Latitude: 28.21247°N **Longitude:** -80.64581°W

Bassett, Brandon

From: Spellman, Ann
Sent: Tuesday, July 07, 2015 5:52 PM
To: Szemer, Donna; Bassett, Brandon
Subject: Rescue info

Happy Birthday Brandon! (Christie told me)

Today's orphan rescue basics:

REC15033/ SWFTm1528

95cm, 30.5 lbs male orphan (itty bitty)
Fetal folds, umbilical skirt
Blood red eyes (hyphema)

Brevard, Melbourne, IR, just north of Pineda Cswy
Hoop net, taken to SWF

Will get you the other reports in the morning.

Ann

Ann C. Spellman, Ph.D.
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Ann.Spellman@MyFWC.com

"Life is not about outrunning the storm; it's about learning to dance in the rain"

Szemer, Donna

From: Rush, Christine
Sent: Wednesday, July 08, 2015 10:42 AM
To: Szemer, Donna; Runnells, Randy W.
Cc: Richmond, Kelly
Subject: REC1533/SWFTm1528b

County: Brevard
City: Merritt Island
Locality Description: 350 meters west of 8085 South Tropical Trail
Coordinates: 28.2129 N -080.6460 W
Brief history: The complainant, Megan Campbell, was out on her wave runner when she noticed the small orphaned manatee at the surface, swimming on its side. Christine Rush and Daniel Levine met with FWC-Ofc. Cabula at the Pineda Causeway and met the complainant, who was standing by. Christine and Daniel used the hoop net to bring the manatee on board and placed him in a cooler filled with water. The manatee was transported back to the Pineda Boat Ramp and met with Ann Spellman. The manatee was loaded into the rescue truck and transported to SeaWorld.
Length: 95 cm
Weight: 14 kg
Sex: Male

Christine N. Rush
Florida Fish and Wildlife Conservation Commission
Marine Mammal Biologist
1220 Prospect Ave.
Suite 285
Melbourne, FL 32901

Office (321) 953-5037
Cell (321) 228-5277

Szemer, Donna

From: Garrett, Andy
Sent: Tuesday, July 07, 2015 1:09 PM
To: Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: rescue update

The orphaned manatee calf has been captured and is being transported to Sea World.

From: Garrett, Andy
Sent: Tuesday, July 07, 2015 11:26 AM
To: 'Adrienne Atkins'; 'Amy Teague'; 'Arielle Taylor-Manges'; Barlas, Margie; Barraco, Liz; 'Bill Hughes'; Boyd, Denise; 'Buddy Powell'; 'Carol Knox'; 'Cathy Beck'; 'Cora Berchem'; 'Craig Miller'; 'Craig Pelton'; 'Dave Murphy'; deWit, Martine; Frisch, Katherine; 'Georgia Zern'; Gordon, Nadia; 'Gretchen Lovewell'; Honaker, Allison; Howell, Amber; 'Jen Johnson'; 'Jim Reid'; 'Jim Valade'; 'Jodi Tuziniski'; 'Katie Tripp'; 'Kelsey Jennings'; 'Kimberlee Tennile'; 'Laura Eldridge'; 'Leeann Rottman'; 'Lowry Park Zoo Florida Mammals'; Martin, Baryl; Martz, Meg; 'Maya'; 'Melynda Brown'; Merrill, Maria; Mezich, Ron; 'Michael Boos'; 'Mike Walsh'; 'Monica Ross'; Morse, Gary; Mosier, Andrea; 'Nicole Adimey'; 'Pat Rose'; Pernell, Jessica; 'Randy Runnells'; 'Ray Ball'; 'Rebecca Hazelkorn'; Reinert, Tom; Richmond, Kelly; Rigney, Kane; 'Robert Bonde'; 'Robert Rose'; 'Robert Wagoner'; Rood, Kari; 'Ruth Francis-Floyd'; Salberg, Leonard; Segelson, Carli; Spellman, Ann; 'Steve Lehr'; 'Susan Butler'; 'Susan Lowe'; Szemer, Donna; 'Virginia Edmonds'; Ward, Leslie; Young, Roger
Subject: rescue alert

Melbourne:

The FWC-ECFL just received a report of a 3 ft orphaned manatee calf swimming on its side (see attached photo). A rescue team is responding. If captured, the manatee will be transported to Sea World.

Szemer, Donna

From: mayadvm@msn.com
Sent: Tuesday, July 07, 2015 12:47 PM
To: Garrett, Andy; Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: RE: rescue alert

The skin looks so newborn. Maybe it one of those birthing injuries or injuries while in utero that causes temporary pneumo. If less than 40# maybe a twin left behind. The two newborn pneumos we have seen were a second twin. Buttons 31# and Patch 42#.
Maya

From: Andy.Garrett@MyFWC.com
To: atkinsa@jacksonvillezoo.org; amy_teague@usgs.gov; Arielle.TaylorManges@dep.state.fl.us; Margie.Barlas@MyFWC.com; Liz.Barraco@MyFWC.com; Bill.Hughes@seaworld.com; Denise.Boyd@MyFWC.com; jpowell@sea2shore.org; carol.knox@MyFWC.com; cathy_beck@usgs.gov; cberchem@savethemanatee.org; millerc@jaxzoo.org; kogiavet@hotmail.com; dmurphydvm@gmail.com; Martine.deWit@MyFWC.com; Katherine.Frisch@MyFWC.com; gzern@co.volusia.fl.us; Nadia.Gordon@MyFWC.com; glovewell@mote.org; Allison.Honaker@MyFWC.com; Amber.Howell@MyFWC.com; Jennifer.Johnson@MyFWC.com; jim_reid@usgs.gov; jim_valade@fws.gov; jtuzinski@msq.cc; ktripp@savethemanatee.org; kjennings@savethemanatee.org; Kimberlee.Tennille@dep.state.fl.us; laura.eldredge@gmail.com; Leeann.Rottman@LowryParkZoo.com; Florida.Mammals@LowryParkZoo.com; baryl.martin@MyFWC.com; Meg.Martz@MyFWC.com; MayaDVM@msn.com; Melynda.A.Brown@dep.state.fl.us; Maria.Merrill@MyFWC.com; ron.mezich@MyFWC.com; michael.boos@seaworld.com; walshm@ufl.edu; mrossbtl@aol.com; gary.morse@MyFWC.com; Andrea.Mosier@MyFWC.com; nicole_adimey@fws.gov; prose@savethemanatee.org; Jessica.Pernell@MyFWC.com; Randy.Runnells@SeaWorld.com; ray.ball@lowryparkzoo.com; rhazelkorn@mote.org; Tom.Reinert@MyFWC.com; Kelly.Richmond@MyFWC.com; Kane.Rigney@MyFWC.com; robert_bonde@usgs.gov; robert.rose@palaceentertainment.com; robert.wagoner@seaworld.com; Kari.Rood@MyFWC.com; rffloyd@ufl.edu; leonard.salberg@MyFWC.com; Carli.Segelson@MyFWC.com; Ann.Spellman@MyFWC.com; Steven.Lehr@SeaWorld.com; sbutler@usgs.gov; Susan.lowe@dep.state.fl.us; Donna.Szemer@MyFWC.com; Virginia.Edmonds@LowryParkZoo.com; Leslie.Ward@MyFWC.com; roger.young@MyFWC.com
Subject: rescue alert
Date: Tue, 7 Jul 2015 15:25:51 +0000

Melbourne:

REC1533
SWFTM1528B

Resc / Dth
7/30/15 8/5/15

Rescue Report

REC1535

General

Date of Rescue: 30 July 2015 | Date of Initial Call: 30 July 2015 | Filed by: A. Spellman

Rescue ID: REC1535 | Facility ID: SWFTm1530B | Other ID:

FWC Case Number: 8380 | FWC Region: NE

Sex: Male | Length: 100 cm | Estimated: No | Weight: 14 kg | Estimated: No

PIT Tag Present: No | PIT Tag Applied: No | R: | L:

State: FL | County: Brevard | City: Merritt Island | Waterway: Sykes Creek

Latitude (Decimal Degrees): 28.36232° N | Longitude (Decimal Degrees): -80.67134° W

Locality Description: Against seawall behind 1420 Phyllis Dr.

Method of Capture: By hand

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☐ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☒ Orphan	☐ Other: (Specify): _____	

All Other

Describe: Emaciated newborn, no attending adult, buoyancy issues

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
30 July 2015	At 1830 hrs, FWC-biologist Christine N. Rush (CNR) received a text message from On-Call biologist Denise M. Boyd (DMB) regarding a possible orphaned manatee in Sykes Creek, Merritt Island, Brevard County. FWC case number 8380 was assigned. According to the complainant, Gina Warner (910-551-9804), area residents had found the calf in the canal, swimming on its side and flipping upside down, with no adult nearby. FWC-LE Ofc. D. Humphrey was

	sent to verify at DMB's request. When Ofc. Humphrey arrived on site, he attempted to support the calf by looping a rope round its body to keep it upright. CNR relayed the information to FWC-biologist Ann C. Spellman (ACS), who was still at the lab and agreed to take over the call. ACS contacted area volunteer Leo J. Cross (LJC) to see if he could respond and assess. LJC advised he was 45 minutes away and would respond. ACS contacted FWC-Manatee Rescue Coordinator Andy J. Garrett and animal care supervisor Bob Wagoner at SeaWorld (SWF) to advise them of a possible rescue and to confirm that SWF could take the calf. SWF agreed to accept the calf. LCJ arrived on scene and entered the water to support the calf. Upon ACS arrival, the calf was quickly evaluated and ACS noted the calf's emaciated appearance and inability to remain upright. ACS observed no other manatees in the canal. The calf was removed from the canal and placed in a large cooler with a small amount of canal water for the trip to SWF. ACS and LCJ arrived at SWF at 2000 hrs and were met by Dr. Michelle Davis and three animal care staff.

PARTICIPANTS

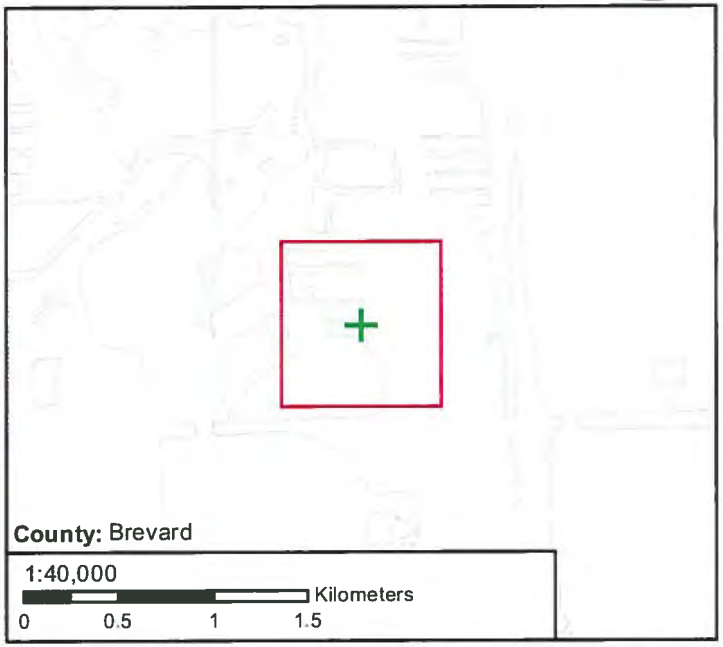
FWC EC: A. Spellman
FWC Volunteers: L. Cross, S. Cross, C. Cross and K. Cross.
FWC LE: Ofc. D. Humphrey

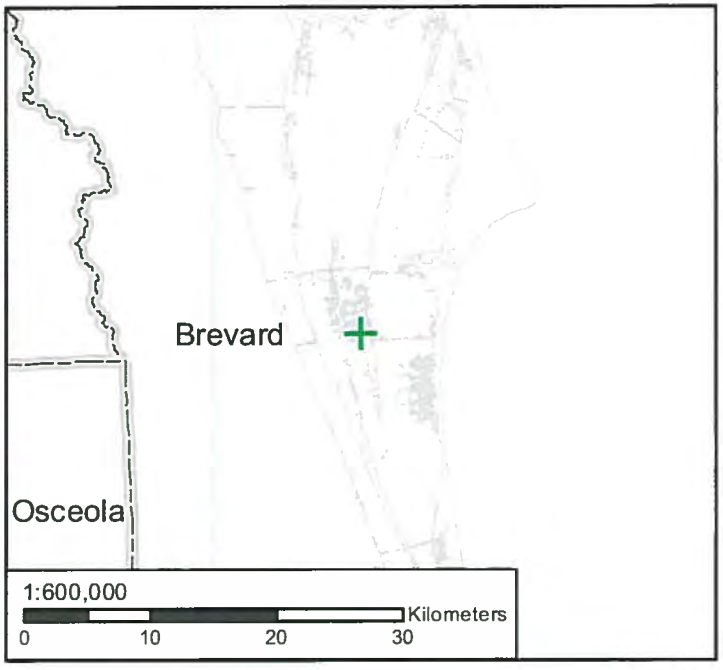
Edited by:
TRR
DJS
AJG

(Rev. 03/18/2013)

Verified Response Location of Manatee Rescue REC1535

Rescue Date: 7/30/2015 **Facility ID:** SWFTm1530b Map Created 4/29/2016





Locality Description:
against the seawall behind 1420 Phyllis Drive

Latitude: 28.36232°N **Longitude:** -80.67134°W

Szemer, Donna

From: deWit, Martine
Sent: Friday, July 31, 2015 9:22 AM
To: Garrett, Andy; Adrienne Atkins; Amy Teague; Arielle Taylor-Manges; Barlas, Margie; Barraco, Liz; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Cathy Beck; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Jodi Tuziniski; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Leeann Rottman; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Susan Lowe; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: manatee rescue update

There was one more rescue yesterday evening

Merritt Island:
FWC received a call about citizens holding a baby manatee in the water, because it was struggling and floating upside down. When EC Field station staff and volunteers arrived, there were no other manatees observed in the area. The calf was very small and a newborn, and was taken to SeaWorld.

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1530b**
Date of Report: 2015-Aug-05
Filed By: SeaWorld Orlando

FWC Case #

FWC Region: NE

Sex: Male

Length: 104 **cm**

Weight: 16.1 **kg**

DATE REPORTED: 2015-Aug-05 **By:** SeaWorld Orlando to MMPL-MdW

DATE COLLECTED: 2015-Aug-05 **By:** SeaWorld Orlando

DATE NECROPSIED: 2015-Aug-05 **By:** SeaWorld Orlando

LOCATION:
State: FL
County: Brevard
Waterway: Sykes Creek
Latitude: 28.36232 **N**
Longitude: -80.67134 **W**
Locality description: Merritt Island, next to the sewall behind 1420 Phyllis Drive.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Perinatal (<= 150 cm)

EXPLAIN: Natural: Orphaned/Abandoned Calf; Fetal folds; Skin lesions; Emaciated; Hemorrhagic colon, cecum wall.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics.

DISPOSITION OF MATERIAL: SeaWorld Orlando pending distribution.

ADDITIONAL DATA:

Histology report. Rescue report.

REMARKS:

PIT tag scan not performed. Died on 05 Aug 2015. Died at 0845 hrs. Died in facility. See rescue report REC1535.

Page 1&2	26 Aug 2016
Necropsy Report	26 Aug 2016
Lat/Long	26 Aug 2016

Asst. + Rel

Rescue Report

REC1536

Entanglement
Crab trap

General

Date of Rescue: 19 December 2015 Date of Initial Call: 19 December 2015 Filed by: D. Carter

Rescue ID: REC1536 Facility ID: NA Other ID: NA

FWC Case Number: 14772 FWC Region: NE

Sex: Unknown Length: 245 cm Estimated: Yes Weight: NT kg Estimated: NA

PIT Tag Present: Unk PIT Tag Applied: No R: L:

State: FL County: Brevard City: Merritt Island Waterway: Sykes Creek

Latitude (Decimal Degrees): 28.34187° N Longitude (Decimal Degrees): -80.66655° W

Locality Description: Next to dock behind 895 New Found Harbor Dr.

Method of Capture: By hand

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☒ Entanglement
- ☐ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entanglement

Gear Type: (Check all that apply)

- ☐ Monofilament Line
- ☒ Polyprop/Nylon Line
- ☐ Hook
- ☒ Buoy
- ☐ Sinker
- ☒ Trap
- ☐ Net
- ☐ Other (Specify) _____

Location of Entanglement: Left flipper

If Crab Pot:

Float#: N/A Color: White Line Type: Yellow Nylon

Damage from Gear:

- ☒ No Damage
- ☐ Abrasions
- ☐ Breaking Skin Surface
- Depth of Entanglement Penetration: ___ cm

Comments: Loosely wrapped , not digging in per complainant

Gear Retained? ☒ Yes ☐ No

Describe:

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☒	☐

HISTORY

Date	Narrative
19 December 2015	At 1328 hrs, FWC biologist-Danielle Carter (DEC) received a text alert from FWC NE Dispatch-Orlando regarding an entangled manatee in Sykes Creek. FWC Case number 14772 was assigned. DEC contacted Sea 2 Shore biologist-Monica Ross (MR) to see if there were any tagged animals in this location. MR advised that she did not think it was a tag. The complainant, Hardy (321-633-7464), said the manatee's left flipper was wrapped in the rope and buoy of a crab trap next to his neighbor's dock. He was concerned that the manatee was getting tangled in the dock pilings and thrashing. At 1414 hrs, the complainant sent DEC a photo of the animal for verification and it was passed along to FWC biologist-Ann Spellman (ACS). ACS contacted FWC-biologist Andy Garrett (AJG) to inform him of the situation. ACS also contacted MR to inform her that it was not one of her tagged animals. At 1510 hrs, DEC and ACS were in the process of loading their rescue gear to respond to the location when the complainant called to say that he had disentangled the manatee himself. According to the complainant, the rope was loosely wrapped around the flipper several times, and when he grabbed the float, the line unwrapped without much difficulty. The complainant then collected the gear at ACS's request. The trap was unmarked. At 1555 hrs, DEC recovered the gear and brought it to the lab for documentation.

PARTICIPANTS

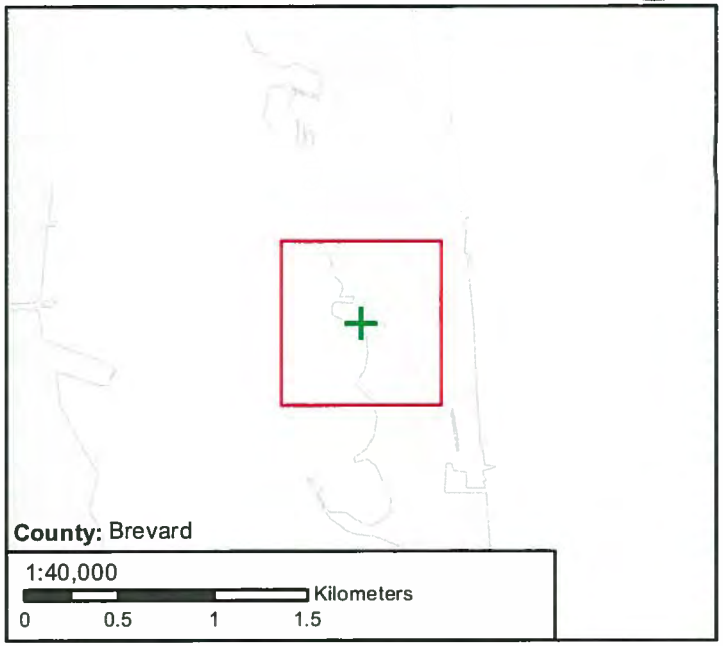
FWC: D. Carter, A. Spellman
Citizen: Hardy

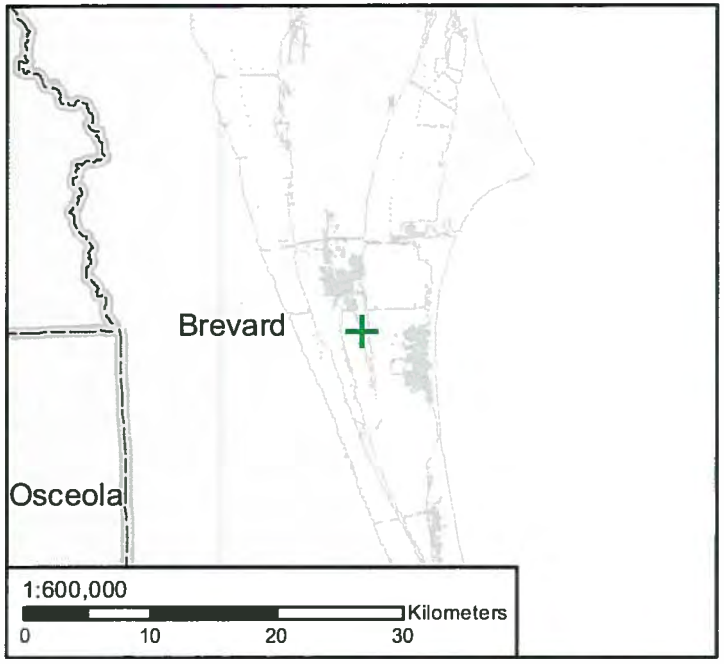
Edited by:
TRR
DJS
AJG

(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1536

Rescue Date: 12/19/2015 **Facility ID:** N/A Map Created 9/9/2016





Locality Description:
next to dock behind 895 New Found Harbor Drive

Latitude: 28.34187°N **Longitude:** -80.66655°W

Resc/Rel 1/30/16 9/6/16

Rescue Report

REC1601

Human, other (fish hook ingestion)

General

Date of Rescue: 30 January 2016 Date of Initial Call: 30 January 2016 Filed by: W. Greer

Rescue ID: REC1601 Facility ID: SWFTm1602B Other ID: Ninjabob

FWC Case Number: 1101 FWC Region: NE

Sex: Male Length: 194 cm Estimated: No Weight: 174 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL County: Brevard City: Satellite Beach Waterway: Grand Canal

Latitude (Decimal Degrees): 28.202° N Longitude (Decimal Degrees): -80.60616° W

Locality Description: approximately 68 m W of 41 Sorrento Court (in canal off Berkeley Canal)

Method of Capture: Land set

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Human, other (fish hook ingestion)

All Other

Describe: Emaciated calf, no attending adult, blowing bubbles from mouth when exhaling.

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☒	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
30 January 2016,	At 0907 hrs, FWC-biologist Ann C. Spellman (ACS) received a text alert from FWC NE Dispatch-Orlando regarding a possible orphaned manatee off Berkeley Canal in Satellite Beach, Brevard County. FWC case number 1101 was assigned. According to the complainant, Dave (319-486-6924), there was a four foot manatee in a ditch off Berkeley Canal by itself and not moving much.

	ACS contacted FWC volunteer-Leo J. Cross and asked him to check on the manatee. LJC advised ACS that the manatee appeared to be in distress. ACS contacted FWC-Manatee Rescue Coordinator Andy J. Garrett and Sea World (SFW) animal care supervisor Bob Wagoner to advise them of a possible rescue and to confirm that SWF could take the calf. At 1300 hrs, ACS and WDG arrived and agreed the manatee needed to be rescued due to its size, lack of adults nearby, lethargic behavior, and blowing bubbles out of the mouth when exhaling. WDG and LJC deployed a capture net across the ditch while ACS and FWC volunteer-Cedar Cross worked the manatee toward the net. The manatee was captured and transported to Sea World, arriving at 1530 hrs.

PARTICIPANTS

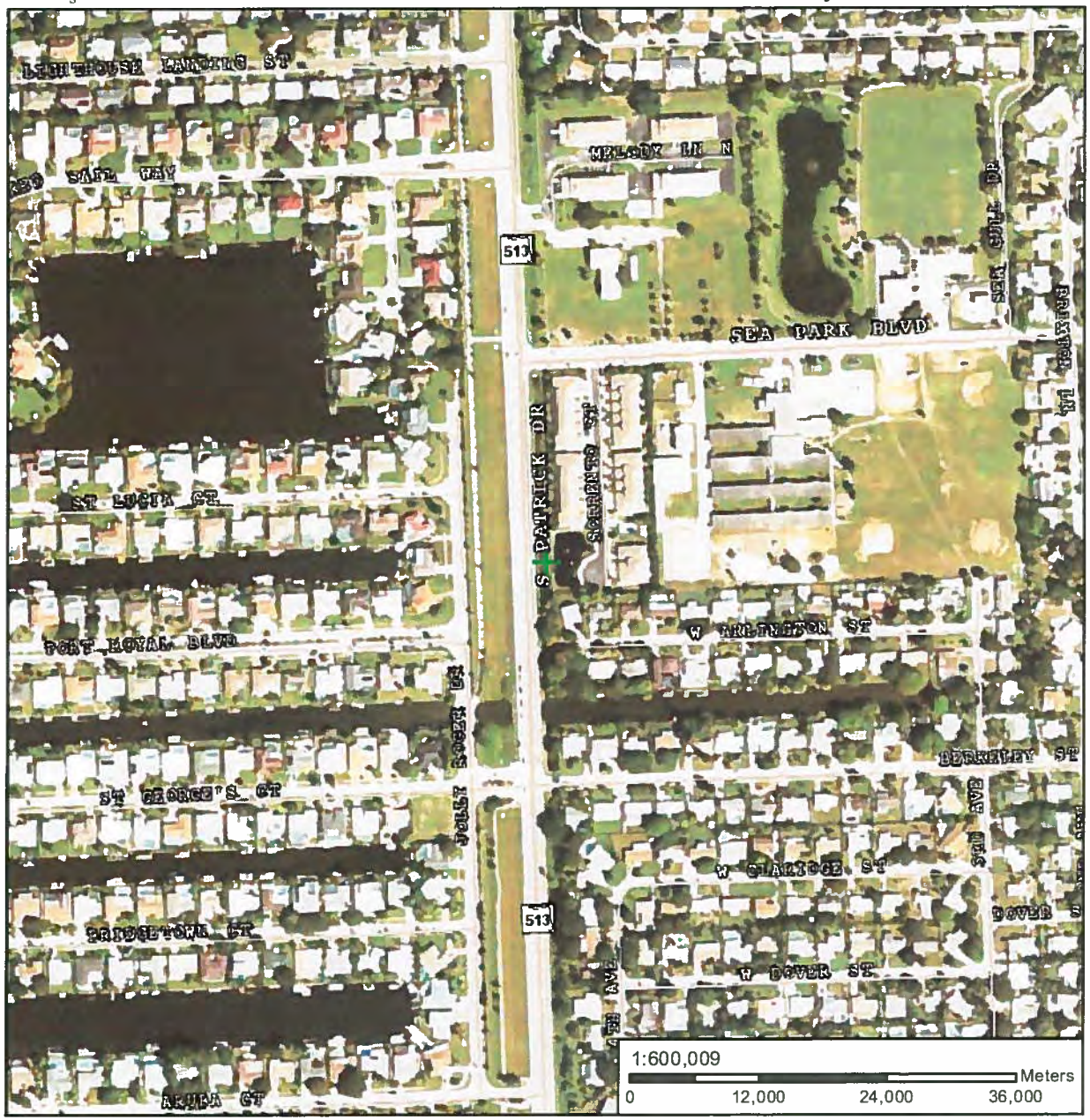
FWC EC: A. Spellman, W. Greer
FWC volunteers: L. Cross, J. White, C. Cross

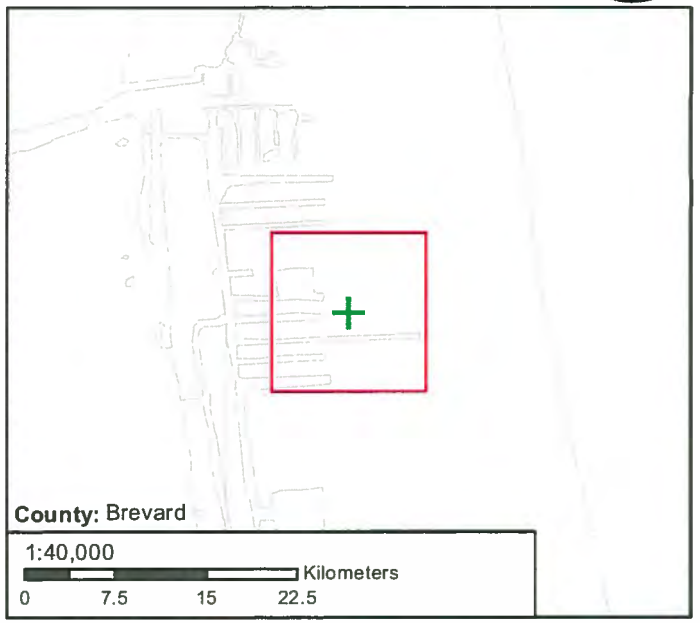
Edited by:
DJS
AJG

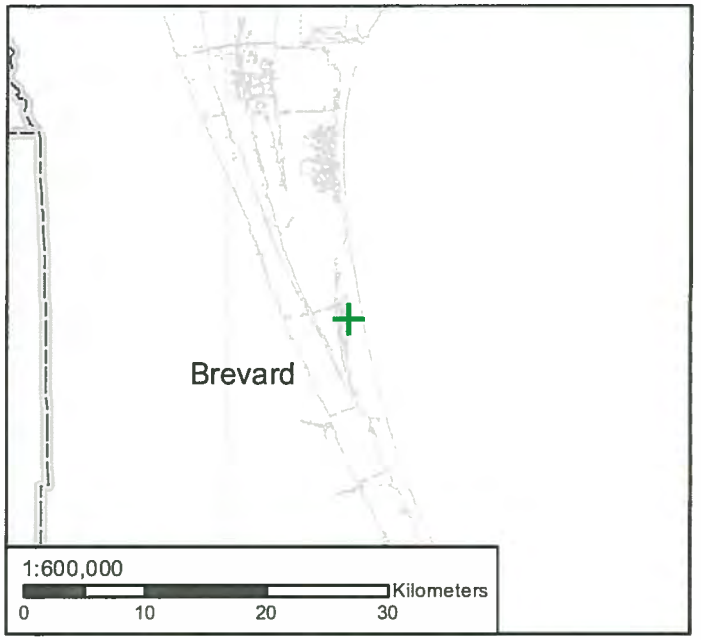
(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1601

Rescue Date: 1/30/2016 **Facility ID:** SWFTm1602b Map Created 9/21/2016







Locality Description:
approximately 68 m W of 41 Sorrento Court (in canal off Berkeley Canal)

Latitude: 28.202°N **Longitude:** -80.60616°W

GENERAL

REC1601

Date of Rescue: 30 JAN 2016	Date of Initial Call: 30 JAN 2016	Filed by: WDG
Rescue ID: REC1601	Facility ID: SW FTM1602B	Other ID:
FWC Case Number: 1101		FWC Region: EC
Sex: Male Length: cm	Estimated:	Weight: kg Estimated:
PIT Tag Present: No	PIT Tag Applied: No	R: L:
State: FL County: Brevard	City: Satellite Beach	Waterway: Banana River
Latitude (Decimal Degrees): 28.20 ° N		Longitude (Decimal Degrees): -80.61 ° W
Locality Description: Satellite Beach, approximately 68 meters W of 41 Sorrento Court.		
Method of Capture: Net set from land		

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress	Red Tide	Tidally Stranded
X Orphan	Other: (Specify): _____	

REASON FOR RESCUE: LONGITUDINAL FOLDS, NO ATTENDING ADULT, BLOWING BUBBLES FROM MOUTH WHEN EXHALING, UNUSUAL BEHAVIOR.

(Outcome): The manatee was captured and transferred to Sea World and arrived at 1530. The calf was transferred to the medical pool at Sea World by FWC staff and volunteers along with SWF staff and volunteers.

Resa

Szemer, Donna

Calf Rel. Hold.

From: Garrett, Andy
Sent: Monday, February 01, 2016 8:39 AM
To: Adrienne Atkins; Perna, Allison; Amy Teague; Anne Harvey; Arielle Taylor-Manges; Barlas, Margie; Bassett, Brandon; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Parrish, Carollyn; Cathy Beck; Ruben, Cheyanne; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; McCloy, Frank; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Lauren Smith; Leeann Rottman; Lonati, Gina; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melody Fischer; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Nicole Adimey; Panike, Anna; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: Rescue Update

Flagler County: SWFTM1603B

On Saturday, the FWC-NEFL responded to a report of a small manatee struggling in the surf in Flagler County. When the rescue team arrived, the manatee was found grounded and exhausted. The 217 cm female was transported to Sea World. Unfortunately, the manatee died shortly after being delivered to Sea World.

Brevard: SWFTM16 / REC1601

On Saturday, the FWC-ECFL responded to a report of a 4 ft calf alone in the Berkeley canal system. The 198 cm manatee was captured and transported to Sea World.

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) **(727) 896-8626**

Temporary ID: _____ Time Net Set: N/A

Manatee ID: REC1601, SWFTM1602B Date: 9/6/2016 Time Captured(Onboard): N/A

Name: 'NINJABOB' Sex: (M) / F Time On Beach: N/A

ID of its Calf / Mom: UNKNOWN Latitude: 28.1451472 N Time Released: 1030

Location: FAUGALLIE YACHT CLUB Longitude: -080.80145 W Data Recorder: W. GREER

Event: ____Capture ____Rescue ____Pre-release Assess. X Release ____Post-release Assess.

Air Temp = 27.1 (C) F Water Temp = 28.9 (C) F Wind: 15 mph E Cloud Cover: S (PC) MC O R

MORPHOMETRICS	Weight: (lb) or kg) 515	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	234	
	Total Length (straight)	212	
	Snout to Peduncle	152	
	Snout to Anus	146	
	Snout to Umbilicus	81	
Girths	Girth at Peduncle: (actual) or ½ 95	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: (actual) or ½	122	
	Girth at Umbilicus: (actual) or ½	178	
	Girth at Axilla: (actual) or ½	142	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION		
	Body Score: 1 2 3 (4) 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	WILLIAM D. GREER
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)
SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / (N) Refrig / Freeze
	Fecal? stored?	Y / (N) Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / (N) Refrig / Freeze / DMSO
	Cookie?	Y / (N) Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)

Manatee ID 5 TMG 08 Manatee Name: Nina Date: / /

FREEZE BRAND	Letters/Numbers applied:	Applied by:		
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	Y / (N)
	PIT tagged by:	SEA WORLD ORLANDO		
	Right #	00-0799-D010		
	Left #	00-079A-~~2B~~ 2A20		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	WILLIAM D. GREER		
	Exposures:	FWC025_2016-09-01_6696 THROUGH 6707		
SKETCHES	Sketched by:	WILLIAM D. GREER		

Comments

Release

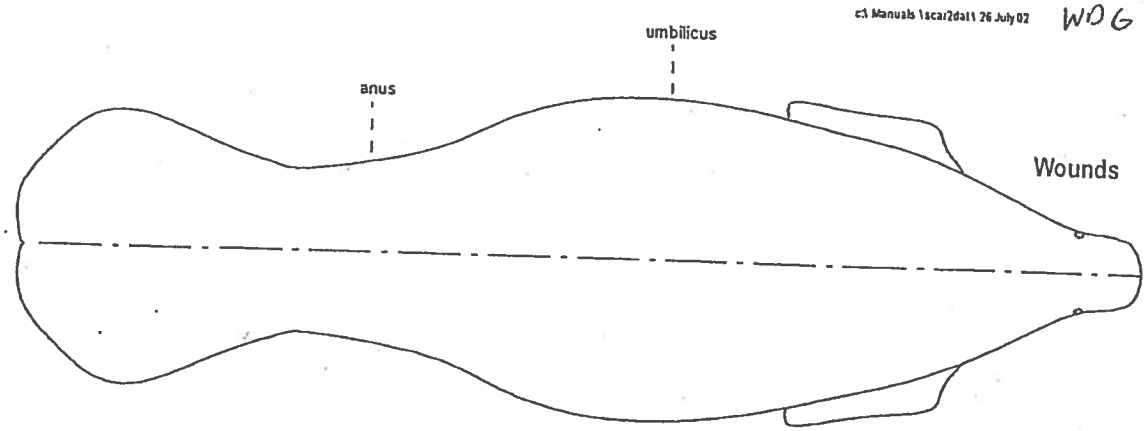
"Ninja Bob"

SWFTm 16026

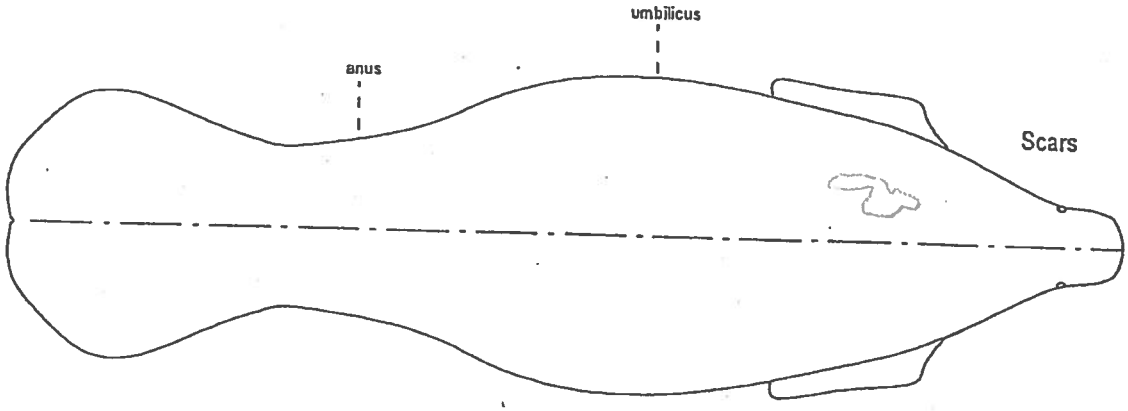
Date 06 Sep 2016

Field I.D. REC16001

c:\ Manuals \ scar2dat1 26 July 02 WDG



Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length																				
Width																				
Depth																				
Distance																				



Manatee Information (MLog:**1767**)

Animal ID:**SWFTM1602B** Sex:**M** Name:**Ninjabob** Rearing:**Wild reared**

-- Release Information ----------

Release Date: 09/06/2016

-- Release Location Information ----------

Release Site: Eau Callie Yacht Club

State: FL **County:** Brevard **City:** Satellite Beach

Waterway: Grand Canal

-- Measurement ----------

Weight (kg): 217 **Estimated Weight?:** No **Date Weighed:** 08/22/2016

Length (cm): 209 **Estimated Length?:** No **Date Measured:** 08/22/2016

-- Other Release Information ----------

Display Water Type:

Release Water Type:

How many months has animal been exposed to release water type?

Is animal bottom feeding?

Has animal been exposed to natural vegetation?

Vegetation Type:

How many months has animal been exposed to vegetation?

Tracker:

Veterinarian: Laura Croft

Organization: SeaWorld Florida

Participating Org:

Additional Narrative:

-- Report Information ----------

Created By: Randy Runnells **Created Date:** 09/07/2016

Updated By: D **Updated Date:** 09/07/2016

Florida Today

SWFTM1602B
REC1601

SeaWorld releases 'Ninja Bob' manatee

Jim Waymer, FLORIDA TODAY 9:36 a.m. EDT September 7, 2016

SeaWorld staff released a 530-pound male manatee Tuesday at Eau Gallie Yacht Club. The manatee recovered at SeaWorld Orlando after a hook was removed from its throat.(Photo: Jim Waymer)

SATELLITE BEACH — The young male manatee blew bubbles as it gasped for air in a shallow ditch near Berkeley Street Canal.

The Florida Fish and Wildlife Conservation Commission would rescue the manatee that January day and transport it to SeaWorld Orlando.

After an initial exam, SeaWorld's veterinarian staff found the reason for the marine mammal's gasps: A fishing hook a few inches long had lodged in its esophagus.

They removed the hook with a surgical scope and would dub the manatee "Ninja Bob." His breathing soon returned to normal, and over the course of eight months Ninja Bob gained strength and weight.

On Tuesday (Sept. 6), SeaWord and FWC staff released a 530-pound, fully cured Ninja Bob back to the wild, hoisting him in a blue tarp down the boat ramp at Eau Gallie Yacht Club, not far from where he was rescued.

Like a true Ninja, Bob quickly vanished beneath the water's surface and back into obscurity, despite all the snapping cameras and smartphones.

SeaWorld staff estimated Bob to be about 3 years old.

A manatee swallowing a fish hook is rare but not unheard of, SeaWorld officials said.

"I have seen it before," said Pedro Ramos, SeaWorld's supervisor of animal care.

In January, federal wildlife officials announced plans to reclassify the Florida manatee from "endangered" to the less-serious status of "threatened." The U.S. Fish and Wildlife Service said at the time it expected to publish the final rule to reclassify within a year.

The announcement comes after decades of studies and debate over whether Florida's most iconic creature should drop a peg from "endangered," a status the marine mammal has held since America's original list of endangered species was created in 1967.

A small crowd of a few dozen onlookers gathered at the yacht club's ramp to watch the manatee's release.

"We all need to be better stewards," said Bob Grissman, general manager of Eau Gallie Yacht Club. "Hopefully, we'll get to do this again."

http://www.floridatoday.com/story/news/local/environment/2016/09/06/seaworld-releases-ninja-bob-manatee/89912334/

Resc / Rel
2/11/16 / 2/27/17

Rescue Report

REC1602

Natural Cold Stress

General

Date of Rescue: 11 February 2016 Date of Initial Call: 10 February 2016 Filed by: W. Greer

Rescue ID: REC1602 Facility ID: SWTm1604b Other ID: "Shirley", REC1403, SWTm1403b

FWC Case Number: N/A FWC Region: NE

Sex: Female Length: 233 cm Estimated: No Weight: 266 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R: 00-074F-0049 L: 00-074E-EE1A

State: FL County: Brevard City: Cocoa Beach Waterway: Banana River

Latitude (Decimal Degrees): 28.36772° N Longitude (Decimal Degrees): -80.62312° W

Locality Description: Approximately 850 m N of Cape Canaveral Hospital (701 W Cocoa Beach Cswy)

Method of Capture: Net set from boat

Reason for Rescue

Check one of the following:

☐ Watercraft	☐ Entanglement	☐ Entrapment (Human)
☒ Cold Stress	☐ Red Tide	☐ Tidally Stranded
☐ Orphan	☐ Other: (Specify): _____	

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☒	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
10 February 2016	FWC biologist-Ann C. Spellman (ACS) was contacted via e-mail by Melody Fischer (MS) from Sea to Shore regarding "Shirley" being sighted alone and in 14° C water in Cape Canaveral, Banana River.
11 February 2016	ACS was contacted by MS saying "Shirley" was still in the Banana River but now in 13° C water. MS observed cold stress lesions and noted that "Shirley" was breathing every 30 - 60 seconds. ACS contacted Sea World and arranged a rescue team. At 1800 hrs, "Shirley" was captured on the first boat–based net set. She was transported to Constitutional Bicentennial Park on 520 where cold stress lesions were observed all over her body as well as her face, nostrils, and

	tail, and a boat strike wound was seen along her left side. "Shirley" was then transported to Sea World by Sea World staff. Superficial wounds were seen on the right side of her head down to the flipper but wounds couldn't be confirmed as watercraft.

PARTICIPANTS

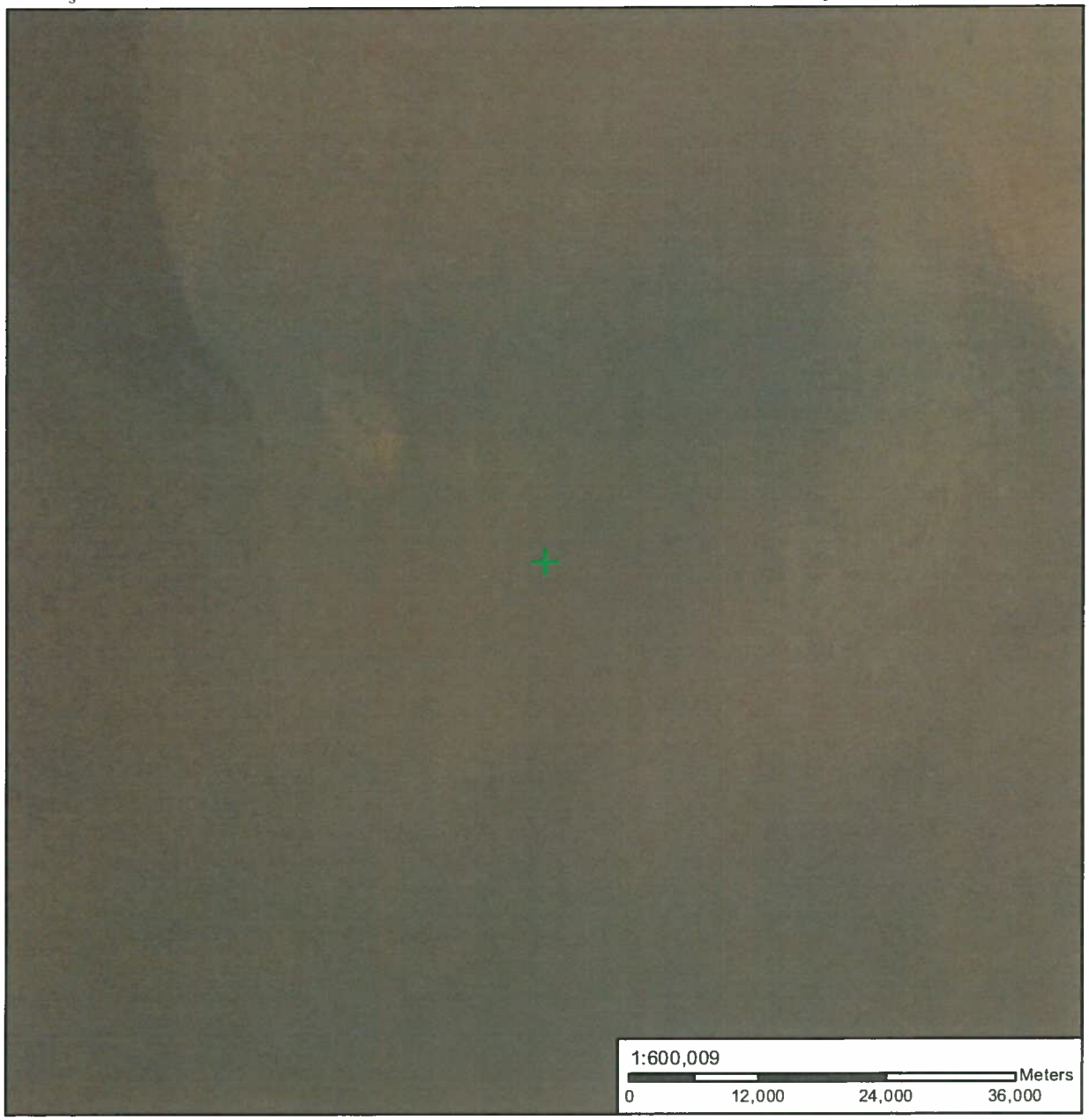
FWC EC: Ann C. Spellman
Sea to Shore: Melody Fischer
Sea World Staff and volunteers

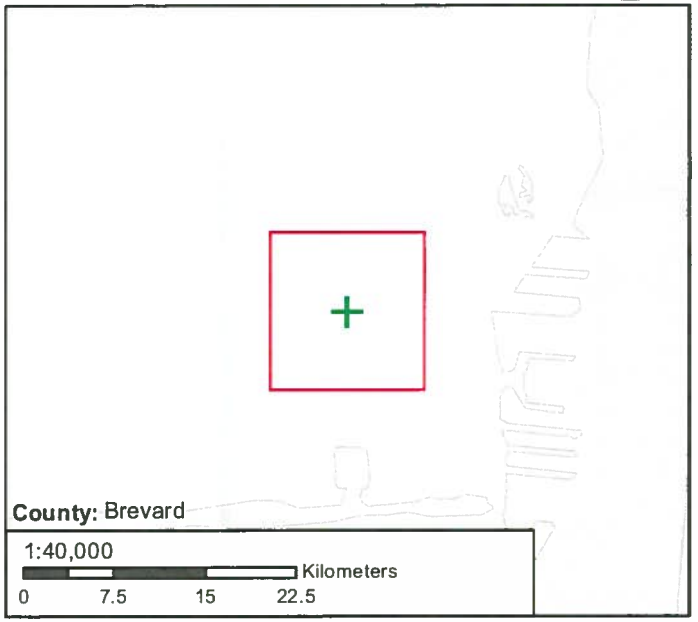
Edited by:
DJS
AJG

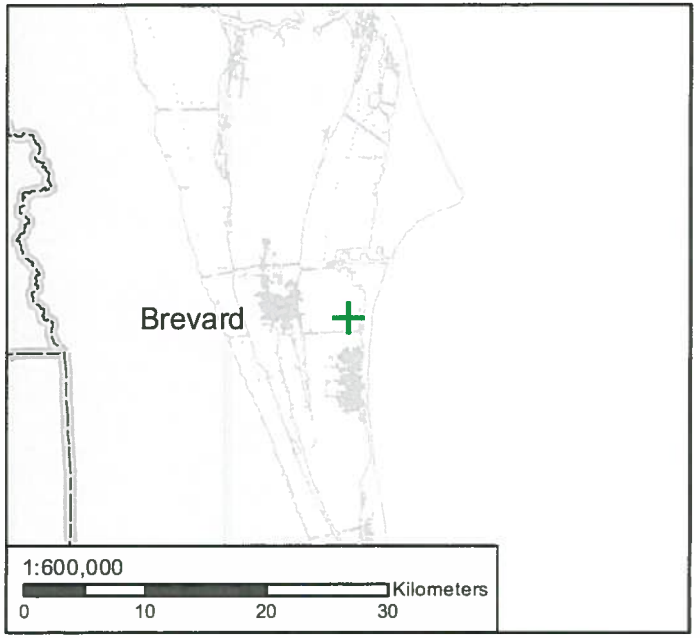
(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1602

Rescue Date: 2/11/2016 **Facility ID:** SWFTm1604b Map Created 9/21/2016







Locality Description:
approximately 850 m N of Cape Canaveral Hospital (701 W Cocoa Beach Cswy)

Latitude: 28.36772°N **Longitude:** -80.62312°W

Resc

Natural Cold Stress

GENERAL

REC1602

Date of Rescue: 11 February 2016 Date of Initial Call: 10 February 2016 Filed by: A. Spellman

Rescue ID: REC1602 Facility ID: SWFTm1604b Other ID: "Shirley" REC1403; SWFTm1403

FWC Case Number: NA FWC Region: NE

Sex: F Length: 200 cm Estimated: YEs Weight: 265 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R:00-074F-0049 L: 00-074E-EE1A

State: FL County: Brevard City: Cocoa Beach Waterway: Banana River

Latitude (Decimal Degrees): 28.367577° N Longitude (Decimal Degrees): -80.622804° W

Locality Description: Approx. 0.85 km N of Cape Canaveral Hospital, just south of SR528

Method of Capture: Net set from boat

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress **X**	Red Tide	Tidally Stranded
Orphan	Other: (Specify): _____	

REASON FOR RESCUE: FAILURE TO FIND WARM WATER –POST-RELEASE MRP MANATEE RELEASED 3 WEEKS AGO, COVERED IN COLD STRESS SORES, RECENT WATERCRAFT STRIKE TO LEFT LATERAL ASPECT, LETHARGIC AND IN 13C WATER
NOTE: WAS 317 KG AT RELEASE AND 200CM TL

(Outcome): Manatee rescued and taken to SeaWorld

(from: Sea to Shore: Melody)

Fischer

Since her release on 1/19/16 at the CCEC FPL plant, Shirley (TBC121) has been observed utilizing the plant's warm water outflow during each cold front until 2/6/16.

On 1/31/16 she swam into the intake canal at CCEC FPL and was reported by FPL staff to have been there for about 12 hours. That morning FWC staff observed her not swimming particularly frantically but appearing not to know how to leave. FPL staff removed the shallow 2-3 ft boom across the entrance and she swam out.

During the cold front beginning on Saturday, 2/6/16, Shirley went to the CCEC FPL plant that Saturday and was seen there again on the afternoon of 2/8/16, but each time only for a few hours. After the visual there on 2/8/16 she left and made it to Sykes Creek that night, then was seen on 2/9/16 traveling by herself through the barge canal connecting Indian and Banana rivers. The temperature there was 16C. She would stop occasionally to explore things and change directions. If there are other secondary warm water spots in Sykes Creek besides the canal behind Merritt Island High School, she was not able to find it or any others. On 2/10/16 Shirley was observed on the east coast of Banana River south of Cape Canaveral, at the entrance to a canal off of N Banana River Blvd which was being dredged. She was by herself and the canal had a foam barrier across its entrance, but Shirley appeared to be trying to find her way in for 20 min before traveling north and south around the entrances to other canals. Water temperature there was 14 C. Chop was moderate with that afternoon's 20 mph winds and she didn't appear able to find a calm area, lifting her head high to breathe.

She was seen on 2/11/16 at the end of a wide canal off of N Banana River Blvd on the east coast of Banana River just north of 520, still by herself. Water temperature was 13 C. She was behaving lethargically, staying still at the surface or milling very slowly, with an elevated respiration rate of 30-60 second intervals. Cold stress lesions were noted on her face and nostrils as well as a halo tail. These indications of cold stress and the temperatures she was in warranted intervention. FWC and the MRP rescue-rehab committee was notified of her behavior over the last 3 days and the signs she was exhibiting that afternoon, and FWC arranged a rescue with a crew and vet from SeaWorld. Shirley was captured west of the entrance to the canal at around 1800 on the first net set. She nosed the net once but otherwise did not resist capture at all. She was transported to Constitutional Bicentennial Park on 520 where cold stress lesions were observed all over her body as well as her face, nostrils, and tail, and a boat strike was seen along her left side. She is receiving critical care at SeaWorld.

Rescue location: 28.367577, -80.622804

Resc

From: Garrett, Andy
Sent: Friday, February 12, 2016 8:22 AM
To: (Group)
Subject: RE: rescue update

SWFTM160403
REC1602

I forgot to mention that the rescue observed a recent watercraft wound on Shirley's back last night that will be evaluated by Sea World's medical team.

From: Garrett, Andy
Sent: Friday, February 12, 2016 8:15 AM
To: (Group)
Subject: rescue update

Brevard County:

Late yesterday afternoon, "Shirley", a MRP tagged manatee released in January was captured by a rescue team (Sea 2 Shore, Sea World, and FWC) and transported to Sea World. Shirley had been monitored since her release, and was observed over the past few weeks wandering and not consistently staying in warm water at the power plant. She was located on Wednesday alone and in 13 degree C water. Yesterday she was found in a residential canal alone, breathing every 30 -90 seconds (respiratory distress), and was observed with white lesions on her body (photo attached).

(SWFTM1403B / REC 1403)

Berkley Canal System:

The 198 cm manatee rescued from the Berkley Canal System on January 30th and transported to Sea World was found with a fishing hook in its esophagus by Sea World care staff.

SWFTM1604B
REC1602
"Shirley"
SWFTM1403B
REC1403

Szemer, Donna

From: Runnells, Randy W. <Randy.Runnells@SeaWorld.com>
Sent: Thursday, May 19, 2016 1:26 PM
To: Szemer, Donna
Subject: FW: Shirley (SWFTm1604b)

Donna this is from Dr Di Rocco

From: DiRocco, Stacy
Sent: Thursday, May 19, 2016 11:37 AM
To: Runnells, Randy W.; Croft, Lara; Davis, Michelle; Gearhart, Scott A. DVM
Subject: RE: Shirley (SWFTm1604b)

I will have photos in Artemis. She had lacerations along her L side when she was rescued, but it was fairly superficial, except in one area. They didnt look like typical Boat strike wounds, but I'm not sure what caused them. No evidence of internal injuries, and she was a pretty severe cold stress cade.

Sent via the Samsung GALAXY S® 5, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Runnells, Randy W." <Randy.Runnells@SeaWorld.com>
Date: 5/19/2016 10:24 AM (GMT-05:00)
To: "DiRocco, Stacy" <Stacy.DiRocco@seaworld.com>, "Croft, Lara" <Lara.Croft@SeaWorld.com>, "Davis, Michelle" <Michelle.Davis@seaworld.com>, "Gearhart, Scott A. DVM" <Scott.Gearhart@SeaWorld.com>
Subject: FW: Shirley (SWFTm1604b)

Any of you remember this?

From: Szemer, Donna [mailto:Donna.Szemer@MyFWC.com]
Sent: Thursday, May 19, 2016 10:19 AM
To: Runnells, Randy W.
Subject: Shirley (SWFTm1604b)

Hi, Randy-

Can you verify if Shirley had a recent watercraft injury on her left lateral body when she was rescued in February and was there any internal trauma associated with it?

Thanks,
Donna

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Manatee ID: SWFTM16045 Capture ID: _____ Data Recorder: SARA M. WARREN

Name: SHIRLEY SWFTM14038 Date: 27 JAN 17

ID of its Calf / Mom: _____ Sex: M / (F)

CAPTURE
Location: _____
Latitude: _____ N
Longitude: _____ W
Water Temp: _____ C F

RELEASE
Location: PORT ST JOHN BARGE CANAL
Latitude: 28.475105 N
Longitude: -80.766555 W
Water Temp: 26.7 (C) F

TIMES
Initial Pursuit: _____
Net Set: _____
Captured(Onboard): _____
On Beach: _____
Released: 1105

EVENT: ____Capture ____Rescue ____Pre-release Assess. ✓Release ____Post-release Assess.
Workup Site: Air Temp = 25.7 (C) F Wind: 12 mph SE Cloud Cover: S (PC) MC O R

MORPHOMETRICS	Weight: (lb or kg) 780 = (354 kg)	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	263	
	Total Length (straight)	248	
	Snout to Peduncle	192	
	Snout to Anus	175	
	Snout to Umbilicus	110	
Girths	Girth at Peduncle: actual or ½	Ultrasound Loc: 113 cm	Belt Loc: in
	Girth at Anus: actual or ½	148	
	Girth at Umbilicus: actual or ½	195	
	Girth at Axilla: actual or ½	156	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 (3) 4 5	
	Health Concerns?	Y / (N) (If yes, describe in comments)
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	Rounded / (Flat) / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (If yes, describe in comments)
	Person(s) assessing condition:	WILLIAM GARVER
	Clinical Assessment Data Sheet?	Y / (N)
REPROD. STATUS	Pregnant? Y / (N) Describe:	
	Lactating?	Y / (N)
MONITORING	Heartrate: Stethoscope EKG Doppler (None)	**Data Sheets?** Y N
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y N
	Respiratory Rate? (Y) N	Y N
FREEZE BRAND	Letters/Numbers applied: 142	Applied by:
	Location(s): SHOULDER AND FLUKE	

Form Revised: 6 December 2012

Manatee ID: SWFTm / 6046 Capture ID Date: 27 FEB 2017

BLOOD	Collect Blood? Y / (N)	Start Time	Flipper	# Tubes
	Drawn by:		L / R	
			L / R	

SAMPLES Milk?	Y / (N) volume: ____ ml	Refrig / Freeze
Urine?	Y / N	Refrig / Freeze / EtOH
Fecal?	Y / N	Freeze / EtOH
Skin Scraping?	Y / (N) Location: ____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Skin Biopsy?	Y / N Location: ____	Refrig / Freeze / EtOH / DMSO / NBF / Slide
Tail Cookie?	Y / N Location: ____	Freeze / / DMSO
Mucosal Swab?	Y / N Oral / Rectal	Refrig
Other?	Y / N Tear Film / ____	Freeze / ____

PIT TAG	Scanned for previous PIT tag? (Y) / N	PIT tagged at this capture? Y / (N)
	PIT tagged by:	JON PETERSON - SEA WORLD ORLANDO
	Right #	00-0074F-0049
	Left #	00-0074E-FE1A
TELEMETRY	Tag Type	(Argos-GPS) / PTT / VHF
TAG	Tag ID#	64243
	Tag / Antenna Color(s)	Tag: YELLOW W/ GREEN Antenna: YELLOW W/WHITE
	VHF Frequency	164.914 MHz
	Tag Sonic ID: FWC____	Freq: kHz Code: PI: msec
BELT	ID# / Size / Color	FWC____ Length: 37.5 in. Color: RED
	Belt Sonic ID: FWC____	Freq: kHz Code: PI: msec
	Belt Knot / Webbing Exposed	(Left) / Right 4 inches
	CR2a Programmed Release	Y / (N) Date/Time:

LOGGERS		Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		
	Logger ID Number	10924443		
	Logger Location	TETHER		
TETHER	Strength / Joiner / Length	Strength: 47 hs / tcc	Length: 4 ft.	
	Tagged by:	MELODY FISCHER - SEA TO SHORE		
PHOTOGRAPHS	Taken by:	SARA M. WAPPES		
	Exposures:	FWC025_2017-02-27_8917-8931, 8942-8948		
SKETCHES	Sketched by:	WILLIAM D. GREER		

COMMENTS

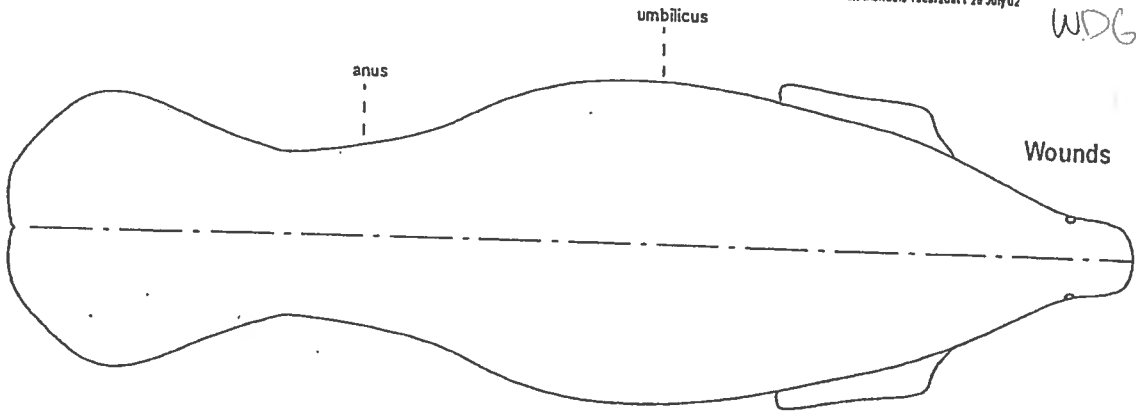
PREVIOUS ID: SWFTm14036

Date 27 FEB 2017 Field I.D. SWR1604b.

SHIRLEY

c:\ Manuals \scar2dat\ 26 July 02

WDG



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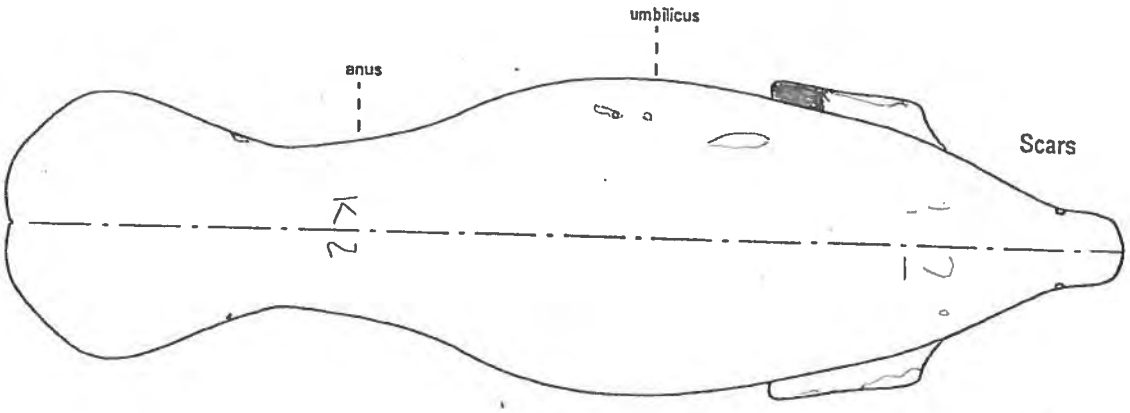
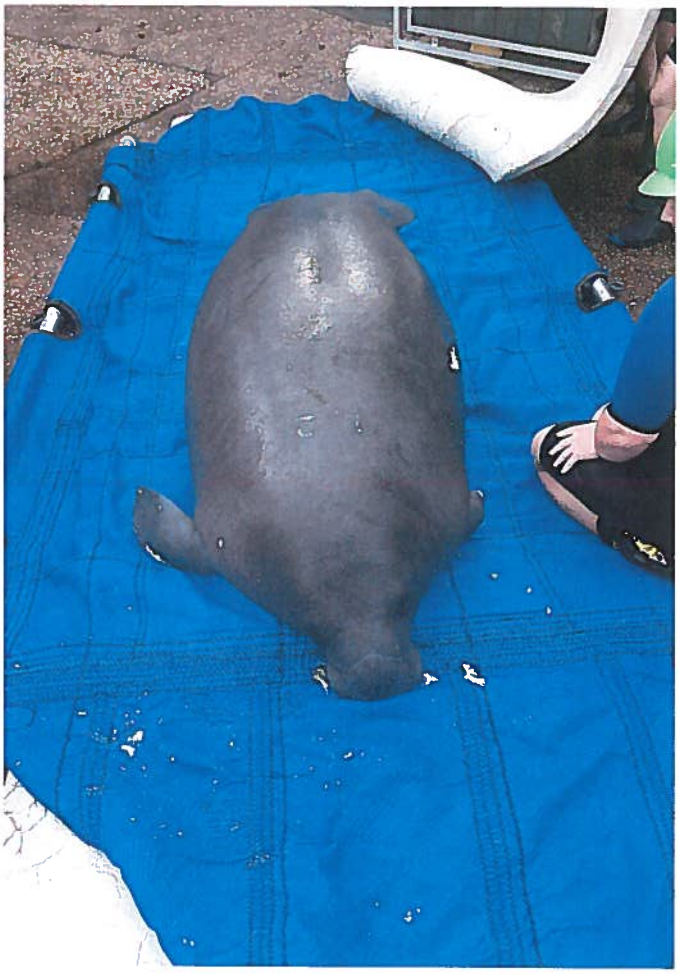
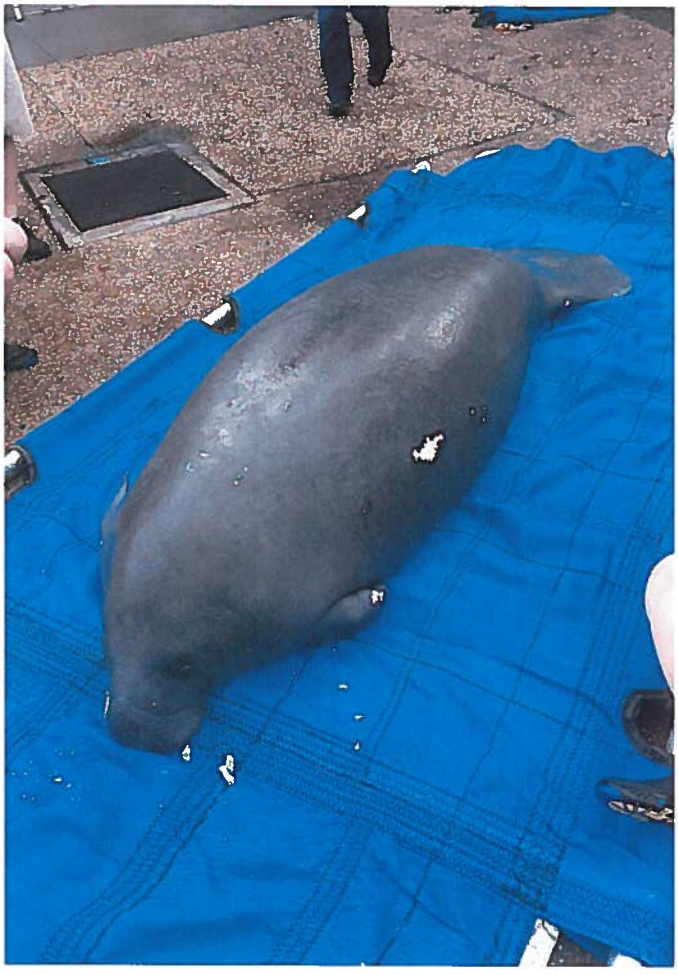
Length																				
Width																				
Depth																				
Distance																				







Shirley
SWFTM1604B
SWFTM1403B

Kesa / Rel
3/3/16 9/8/16

Rescue Report

REC1604

GENERAL

Date of Rescue: 03 March 2016 Date of Initial Call: 03 March 2016 Filed by: W. Greer

Rescue ID: REC1604 Facility ID: SWFTm1605b Other ID: "Trooper", SWFTm1315b, RNE1315

FWC Case Number: N/A FWC Region: NE

Sex: Male Length: 255 cm Estimated: No Weight: 229 kg Estimated: No

PIT Tag Present: Yes PIT Tag Applied: No R: 00074F0F18 L: 00074DDAB5

State: FL County: Volusia City: Edgewater Waterway: Mosquito Lagoon

Latitude (Decimal Degrees): 28.94818° N Longitude (Decimal Degrees): - 80.87400° W

Locality Description: approximately 185 m E of 775 Navigators Way

Method of Capture: Boat set

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): _ Emaciated_____

All Other

Describe: Emaciated (ribs visible, peanut head), lethargic

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☒
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☒	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
03 March 2016	At 1000 hrs, FWC biologist-Nadia J. Gordon (NJG) received a call from Georgia Zern (GZ), Volusia Stranding, about a manatee at the Edgewater Landing boat ramp in Edgewater, Volusia County. The original complainant, Ward Kahn (607-7358-3630), reported that the manatee had been in the same location since 0700 hrs. At 1025 hrs, GZ sent NJG photo conformation of the manatee. At 1028 hrs, NJG contacted the complainant who reported a vessel

	had been launched from the boat ramp and the manatee reacted but did not leave the area. At 1037 hrs, GZ informed NJG that Debbie Wingfield (DW) was on her way to the manatee's location. At 1056 hrs, NJG contacted FWC biologist-Ann C. Spellman (ACS) to advise her of the situation since it was in the ECFL area. ACS asked NJG to handle the calls for the time being. At 1139 hrs, DW contacted NJG reporting a second vessel had been launched and the manatee did not leave the area, seemed to be staying on the bottom, and had a white face. At 1156 hrs, NJG called ACS and left a message on voicemail. At 1157 hrs, NJG contacted FWC biologist-William D. Greer (WDG) and advised him that NJG and FWC biologist-Allison C. Perna (ACP) were preparing the NEFL rescue boat. WDG informed NJG that the ECFL would provide volunteers and transport for the animal. At 1201 hrs, NJG contacted FWC Rescue coordinator-Andy J. Garett to advise him of the plan for rescue. At 1229 hrs, NJG contacted Sea World-Bob C. Wagoner who confirmed Sea World would take the manatee if it was rescued. At 1445 hrs, NJG, ACP, WDG, FWC biologist-Danielle E. Carter (DEC), FWC volunteer-Leo J. Cross and FWC volunteer-Joe A. Wolf (JAW) were on scene. At 1520 hrs, NEFL rescue boat deployed the net and captured the manatee on the first attempt. The manatee was severely underweight and was transported to Sea World by WDG, DEC, ACS, and JAW, arriving at 1740 hrs.

PARTICIPANTS

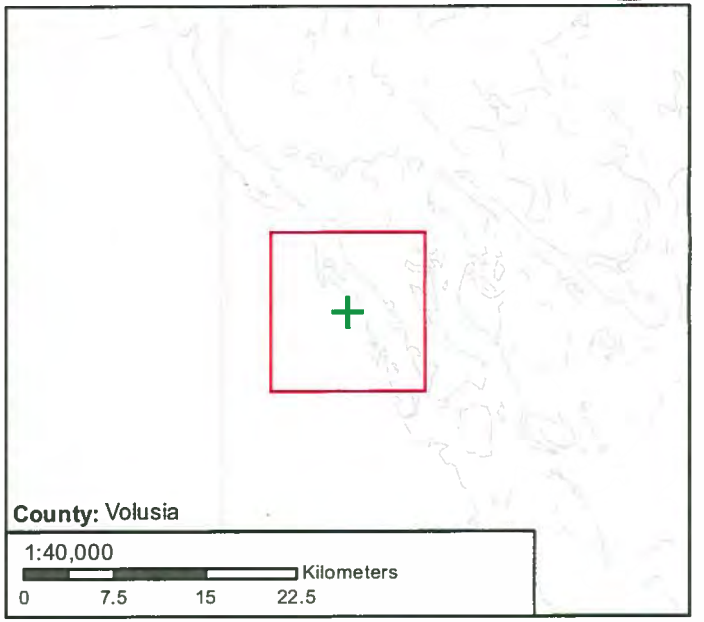
FWC EC: W. Greer, D. Carter, A. Spellman
FWC NE: N. Gordon, A. Perna
FWC volunteers: L. Cross, J. Wolf, A. Lins, P. Lins, K. Raymo (day volunteer)

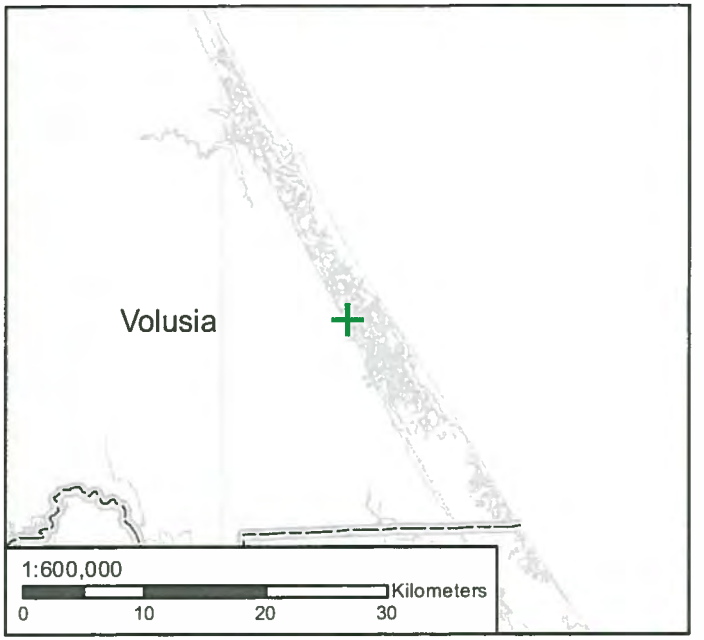
Edited by:
DJS
AJG

(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1604

Rescue Date: 3/3/2016 **Facility ID:** SWFTm1605b Map Created 9/21/2016





Locality Description:
approximately 185 m E of 775 Navigators Way

Latitude: 28.94818°N **Longitude:** -80.87499°W

Florida Fish and Wildlife Conservation Commission

West Indian Manatee (*Trichechus manatus*) (727) 896-8626

Temporary ID: _____ Time Net Set: N/A

Manatee ID: R.C1604, SWF7M1605B Date: 9/8/2016 Time Captured(Onboard): N/A

Name: 'TROOPER' Sex: (M) / F Time On Beach: N/A

ID of its Calf / Mom: UNKNOWN Latitude: 28.94808806 N Time Released: 1140

Location: EDGEWATER LANDING BOAT RAMP Longitude: -080.8751056 W Data Recorder: A. LINS

Event: ____Capture ____Rescue ____Pre-release Assess. X Release ____Post-release Assess.

Air Temp = 27.2 (C) F Water Temp = 28.4 (C) F Wind: 31 mph E Cloud Cover: (S) PC MC O R

MORPHOMETRICS	Weight: (lb or kg) 845	Manatee + stretcher	Stretcher weight
Lengths	Total Length (curvilinear) (cm)	283	
	Total Length (straight)	265	
	Snout to Peduncle	192	
	Snout to Anus	179	
	Snout to Umbilicus	105	
Girths	Girth at Peduncle: (actual) or ½ | 03	Ultrasound Loc: cm	Belt Loc: in
	Girth at Anus: (actual) or ½	154	
	Girth at Umbilicus: (actual) or ½	198	
	Girth at Axilla: (actual) or ½	175	

ULTRASOUND	Reader Name:			
Machine Model	Replicate No.	Umbilicus	Anus	Peduncle
Scanoprobe No.: 1 / 2	1	/	/	/
Other:	2	/	/	/
	3	/	/	/

CONDITION	Body Score: 1 2 3 (4) 5	
	Poor Fair Good Very Good Excellent / Undetermined	
	Peanut shaped head? Y / (N)	Ribs visible? Y / (N)
	Side between anus & peduncle:	(Rounded) / Flat / Concave
	Ventrum:	(Rounded) / Flat / Concave / Ventral Folds
	Fresh Wounds or Lesions:	Y / (N) (describe in comments)
	Person(s) assessing condition:	WILLIAM D. GRIGER
REPROD. STATUS	Pregnant? Y / (N) If so, describe:	
	Lactating?	Y / (N)
SAMPLES	Milk sample collected? stored?	Y / (N) Refrig / Freeze
	Volume of milk collected? / Teat?	ml / right left both
	Person collecting milk?	
	Urine? stored?	Y / (N) Refrig / Freeze
	Fecal? stored?	Y / (N) Freeze / 5% NBF / 70% ETOH
	Skin? stored?	Y / (N) Refrig / Freeze / DMSO
	Cookie?	Y / (N) Location:
MONITORING	Heartrate: Stethoscope EKG Pulse-Oximeter (None)	**Data Sheets?** Y (N)
	Temperature: Oral Naso-pharyngeal Rectal (None)	Y (N)
	Respiratory Rate? Y (N)	Y (N)

Manatee ID _____ Manatee Name: _____ Date: _____

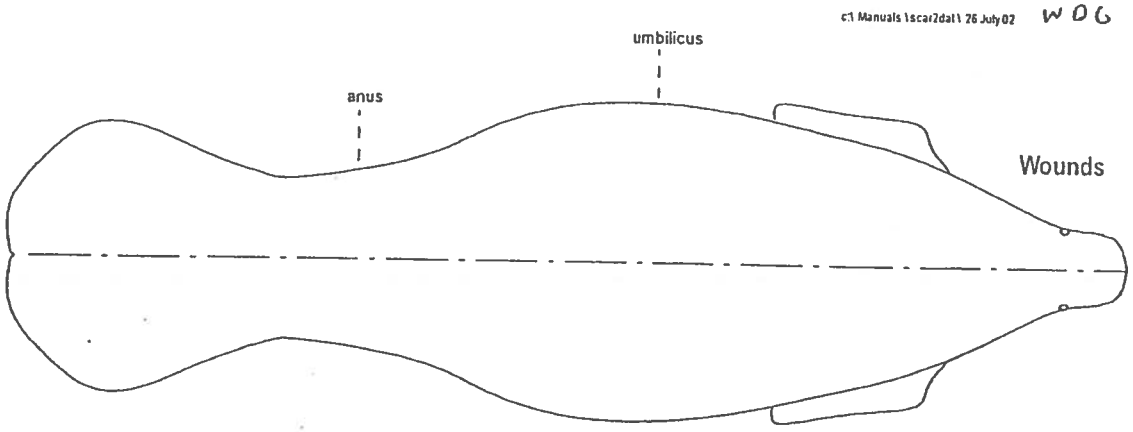
FREEZE BRAND	Letters/Numbers applied:		Applied by:	
	Location:			
BLOOD	Stick #	Start Time	End Time	Flipper
	1			L / R
	2			L / R
	3			L / R
	Drawn by:			
	# Tubes of Blood Collected	Blue:	Red:	Purple:
		Green:	Yellow:	Other:
PIT TAG	Scanned for previous PIT tag?	(Y) / N	PIT tagged at this capture?	Y / (N)
	PIT tagged by:	SEA WORLD ORLANDO		
	Right #	00-074F-0F18		
	Left #	00-074D-DAB5		
FLAG	Color and Symbol			
TELEMETRY	**TAG** Type	Argos-GPS / Lotek-GPS / PTT / VHF		
	Tag ID#			
	Tag / Antenna Color(s)	Tag:	Antenna:	
	VHF Frequency	164._____ MHz		
	Tag Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	BELT Number / Belt Color	FWC_____	Length: _____"	Color: _____
	Belt Sonic ID: FWC_____	Freq: kHz	Code:	PI: msec
	Belt Knot / Webbing Exposed	Left / Right		_____ inches
	CR2a Programmed Release	Y / N	Date/Time:	
	DATA LOGGERS	Tidbit (Temp.)	TDR (Depth)	Salinity
	Manufacturer	Onset		Star-Oddi
	Logger ID Number			
	Logger Location			
	TETHER Strength / Length	Strength:	Length:	ft.
	Tagged by:			
PHOTOGRAPHS	Taken by:	WILLIAM O. GREER		
	Exposures:	FWC025-2016-09-08_6708 THROUGH 6732		
SKETCHES	Sketched by:	WILLIAM O. GREER		

Comments

'TROOPER'
SWTTM16056

Date 08 SEP 2016 Field I.D. REC1604

c:\ Manuals \scar2dat\ 26 July 02 WDG



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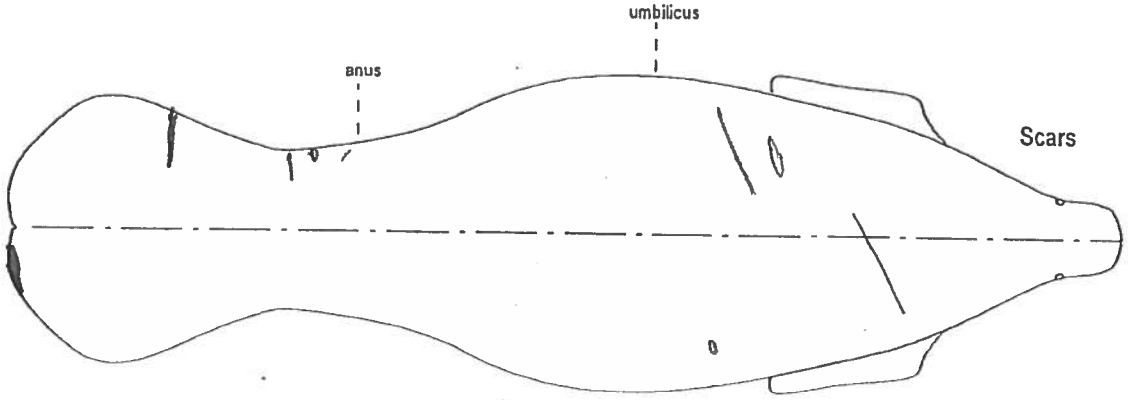
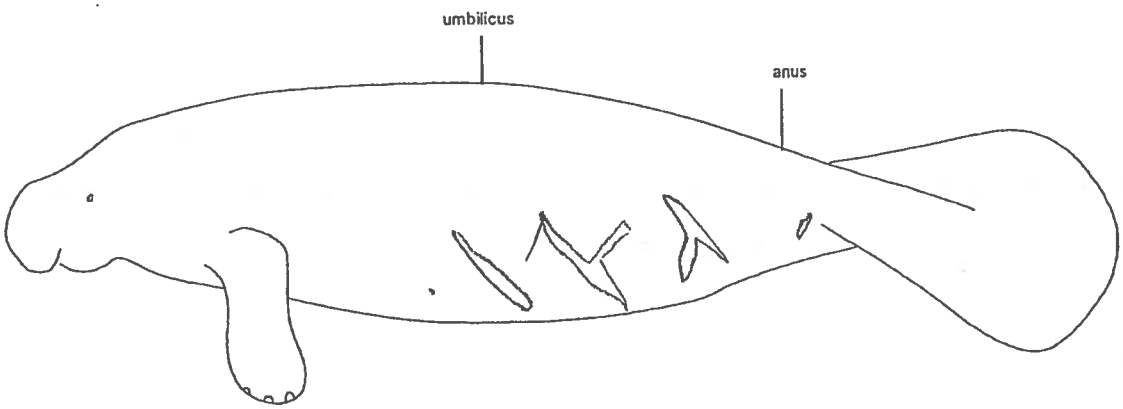
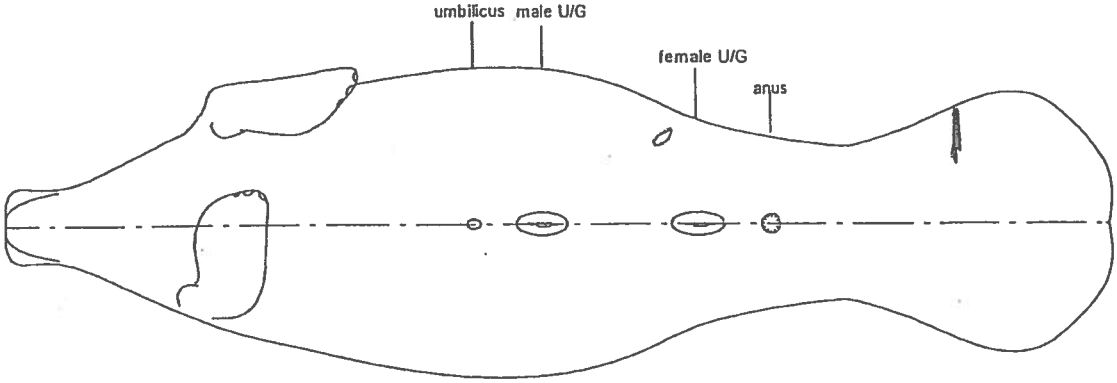
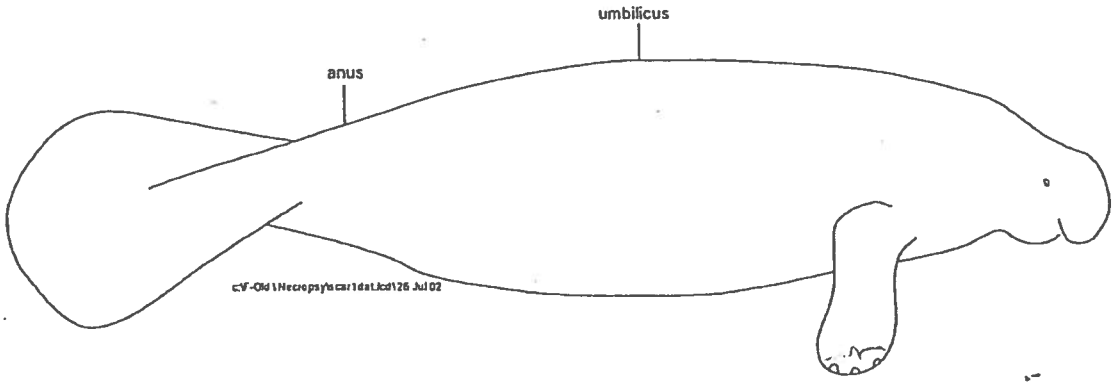


TRIDENT
SWFTI505B
REC1604

FIELD I.D.







THE DAYTONA BEACH NEWS-JOURNAL
NEWS-JOURNALONLINE.COM
HOME OF THE WORLD'S MOST FAMOUS BEACH

Trooper the manatee lives up to name, released in Edgewater

Thursday Posted Sep 8, 2016 at 4:19 PM
Updated Sep 8, 2016 at 4:19 PM

Edgewater Landing resident watched excitedly Thursday morning as a manatee rescued near their community was returned to the Indian River.

By Dinah Voyles Pulver

Follow

Edgewater Landing residents crowded onto their dock in the Indian River Thursday morning, excited for a reunion with a manatee rescued there last winter, now fully recovered and ready for release.

Community resident Ward Kahn said he found the manatee listless and emaciated near the dock early one morning in March. After checking on the animal and realizing the manatee hadn't moved and seemed to have really shallow breathing, Kahn said they notified the Florida Fish and Wildlife Conservation Commission.

Volusia County's marine mammal stranding team responded to help care for the animal, then the FWC rescued the suffering animal.

"He was extremely underweight," said Bill Greer, an FWC biologist.

Taken to the manatee hospital at SeaWorld Orlando for treatment, Trooper was greeted like an old friend because he was a repeat visitor. He was originally rescued and taken to SeaWorld in 2013 after suffering a boat-related injury, said Victor Marsich, SeaWorld's animal care supervisor.

During his first stint at the park, the manatee underwent several surgeries, and once "flat-lined" on an operating table, said Marsich. That's how the manatee got its name. "He was such a trooper."

After recovering, Trooper was released and spent almost two years in the wild.

The park's animal care staff isn't certain why Trooper needed to be rescued again in March.

The manatee showed signs of cold stress, officials said this week. But, the winter really hadn't been all that cold, said Marcich. Trooper was severely emaciated, weighing only about 500 pounds.

"He was probably one of the thinnest animals I've ever worked with," he said. SeaWorld staff wasn't ever able to determine exactly what was the matter with Trooper, but after a few weeks, his buoyancy and appetite improved. By the time he was ready for release, Trooper had gained more than 300 pounds and was eating about 60 pounds of romaine lettuce a day.

He weighed 870 pounds on Thursday morning and was a little over 7.5 feet long.

The FWC likes to return animals to the area where they were rescued when possible because they'll have "a familiarity with the area," said Greer. "They have knowledge and can recognize where they are very quickly."

On Thursday morning, Landing residents watched as SeaWorld and FWC employees and volunteers walked the sling holding the manatee into the water, then burst into cheering and applause when Trooper swam free.

"That was cool," said Bill Lee, a resident who oversees the community's facilities.

"I just like the fact that the community enjoys making resources available," said Lee. In addition to serving as an occasional location for dramatic manatee rescues, Lee said the community's shoreline has been the subject of oyster reef restoration and a research site for a college student studying oysters.

Kahn was happy to see the manatee return. The FWC and SeaWorld do "a great job" of caring for the manatees, he said.

Resident Anne Brumagim said it was "exciting" to see the rescue and a nice time for residents to visit as they waited and watched.

Brumagin and others were particularly delighted to see two other manatees in the water at the dock as Trooper returned to the river, she said. "We were thinking maybe they got the telegram that Trooper was being released."

But even as they released one manatee, the FWC and SeaWorld took to the water in the same area on Thursday afternoon to search for two other manatees that had been reported possibly in need of rescue.

Resc / Rel

From: Greer, Bill
Sent: Saturday, March 05, 2016 8:21 AM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>
Cc: Spellman, Ann <Ann.Spellman@MyFWC.com>; Carter, Dani <Dani.Carterr@MyFWC.com>
Subject: RE: Rescue Update

Natural
Emaciated

GENERAL

Date of Rescue: 03 MAR 2016	Date of Initial Call: 03 MAR 2016	Filed by: WDG
Rescue ID: REC1604	Facility ID: SWFTm1605	Other ID: "Trooper"
FWC Case Number: N/A		FWC Region: EC
Sex: Male	Length: 255 cm Estimated:	Weight: kg Estimated:
PIT Tag Present: Yes	PIT Tag Applied:	R: L:
State: FL	County: Volusia City: Edgewater	Waterway: Indian River
Latitude (Decimal Degrees): 28.984123 ° N		Longitude (Decimal Degrees): - 80.875060 ° W
Locality Description: Edgewater, approximately 185 meters east of 775 Navigators Way		
Method of Capture: Boat net set		

REASON FOR RESCUE

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress	Red Tide	Tidally Stranded
Orphan	Other: (Specify): _Severely Underweight_____	

Sorry we didn't get it to you yesterday. As I told you earlier it is currently at Sea World. It was a previous rescue of NEFL in 2013 (at least I'm pretty sure that's what Ann told me). I don't have the notes with me that had the pit tag numbers but we will get that to you.

Bill

Kosc

Szemer, Donna

REC1604
SWFTM1605B

From: Garrett, Andy
Sent: Thursday, March 03, 2016 4:05 PM
To: Adrienne Atkins; Perna, Allison; Amy Teague; Anne Harvey; Arielle Taylor-Manges; Barlas, Margie; Bassett, Brandon; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Parrish, Carollyn; Cathy Beck; Ruben, Cheyanne; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; McCloy, Frank; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Lauren Smith; Leeann Rottman; Lonati, Gina; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melody Fischer; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Panike, Anna; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: Manatee rescue alert

Edgewater:

This morning the FWC received a report of a lethargic manatee at a boat ramp in Edgewater. A Volusia County and FWC response team verified that the manatee was lethargic, had a resolving watercraft wound on its lower left dorsum, and seemed unresponsive to the vessels using the boat ramp. The manatee was captured and found to be a 8.5 ft emaciated male with longitudinal ventral folds. The manatee is currently being transported to Sea World.

-Andy

PIT tag positive.
"Trooper"
(RNE1315
SWFTM1315B)

Kosc / DHL
3/11/16 / 7/6/16

Rescue Report

REC1605

Natural (underweight no matter)

General

Date of Rescue: 11 March 2016 Date of Initial Call: 4 March 2016 Filed by: D. Carter

Rescue ID: REC1605 Facility ID: SWFTm1607b Other ID: Hemmingway

FWC Case Number: N/A FWC Region: NE

Sex: Male Length: 205 cm Estimated: No Weight: 165 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL County: Volusia City: Orange City Waterway: St. Johns River

Latitude (Decimal Degrees): 28.94293° N Longitude (Decimal Degrees): -81.34156° W

Locality Description: Blue Spring State Park, kayak launch beach

Method of Capture: Boat/land net set

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Underweight

All Other

Describe: The animal looked underweight for its size, was attempting to nurse off females in the area, and was often found in a hunched position.

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
05 March 2016	FWC EC-Ann Spellman (ACS) received a report from Save the Manatee Club regarding a manatee that looked underweight for its size, was attempting to nurse off females in the area, and was often found in a hunched position.
07 March	ACS notified FWC biologists-Danielle Carter (DEC) and William Greer (WDG) to inform them of the possible distressed manatee and request they

	travel to Blue Springs State Park on the following day to check on this and another manatee that were of concern at the springs.
08 March	ACS and FWC biologists-Danielle Carter (DEC) and William Greer (WDG) travelled to Blue Spring State Park. The manatee appeared slightly lethargic with its tail tucked and was observed resting on a log.
09 March	At 0920 hrs, ECFL staff and volunteers arrived at BSSP with a rescue truck. SWF staff arrived and deployed a net from their rescue boat while ECFL staff swam in the water to herd the animal towards the net. During the net set, three animals were captured. The target animal and one other manatee escaped and left the spring. The remaining manatee in the net was released. ACS asked MMPL staff to be on standby for the next day.
10 March	FWC EC volunteer-Cora Bercham (CB) called ACS to let her know that there were no animals in the spring.
11 March	CB called AJG to let him know that the target manatee was in the spring with one other manatee. AJG relayed this information via phone to DEC. DEC contacted Randy Runnells to ask for a rescue team and if they could accept the animal. Randy informed DEC that SWF did not have a team available that day, but they would be able to take the animal in for rehabilitation. DEC contacted AJG to request a rescue team and rescue boat. MMPL staff and volunteers left at 1050 hrs. DEC and ECFL volunteers left in the transport truck at 1140 hrs. Both teams arrived on scene by 1330 hrs. MMPL launched the rescue boat at the French Street boat ramp while ECFL moved the transport truck to the kayak launch area. Using a boat/land net set, the target animal and one extra manatee were captured at the kayak launch beach. The extra manatee was released on site and the target animal was brought onto the beach. The manatee was loaded into the transport truck and the ECFL team left by 1425 hrs, arriving at SeaWorld by 1545 hrs.

PARTICIPANTS

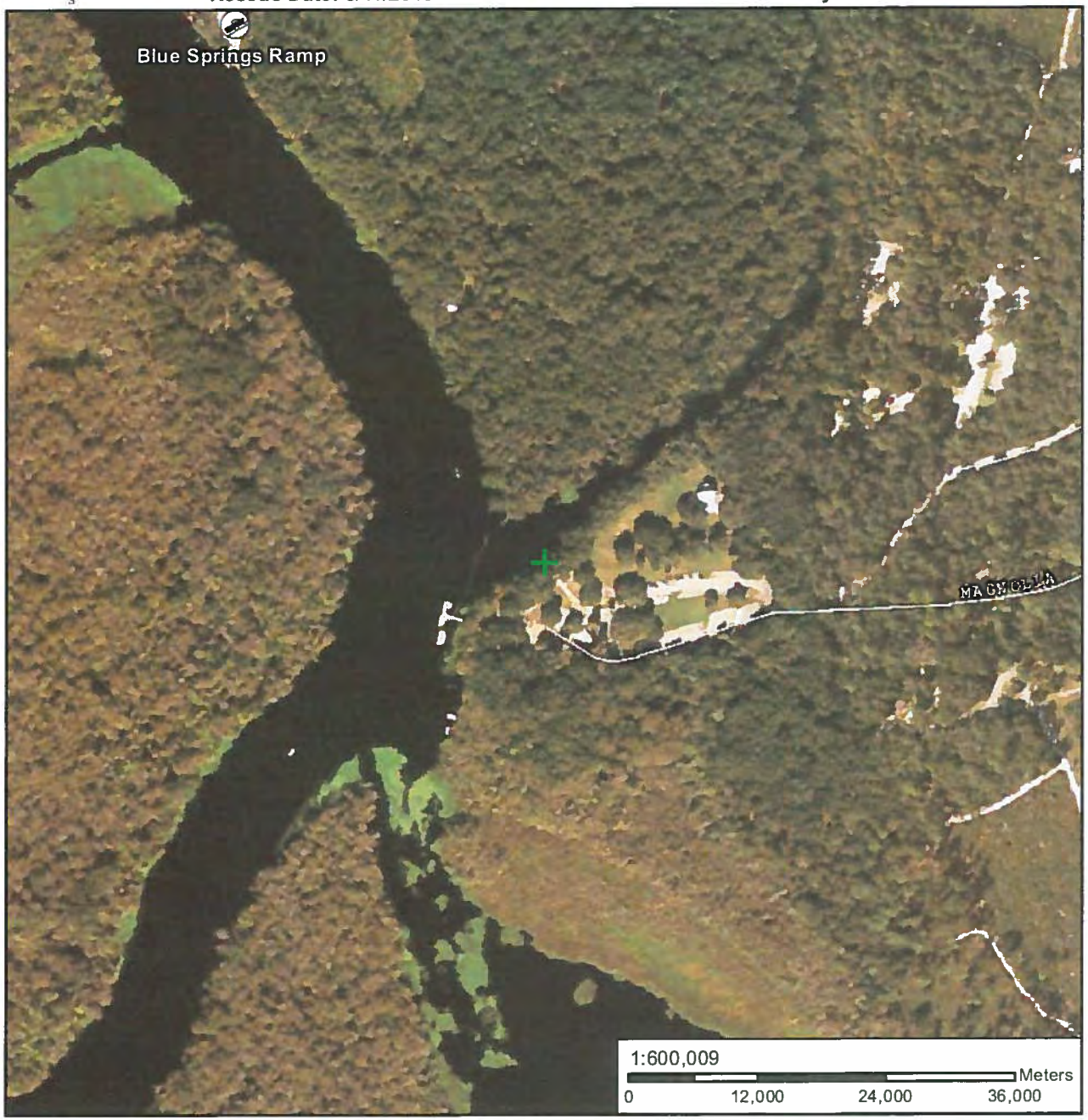
FWC EC: D. Carter
FWC MMPL: A. Garrett, A. Panike, K. Rigney,
FWC volunteers (EC & MMPL): Cora Bercham, Joe Wolf, Leesa Whitleff, Leo Cross, Cedar Cross, Brett Rioux, Tara Whitcomb

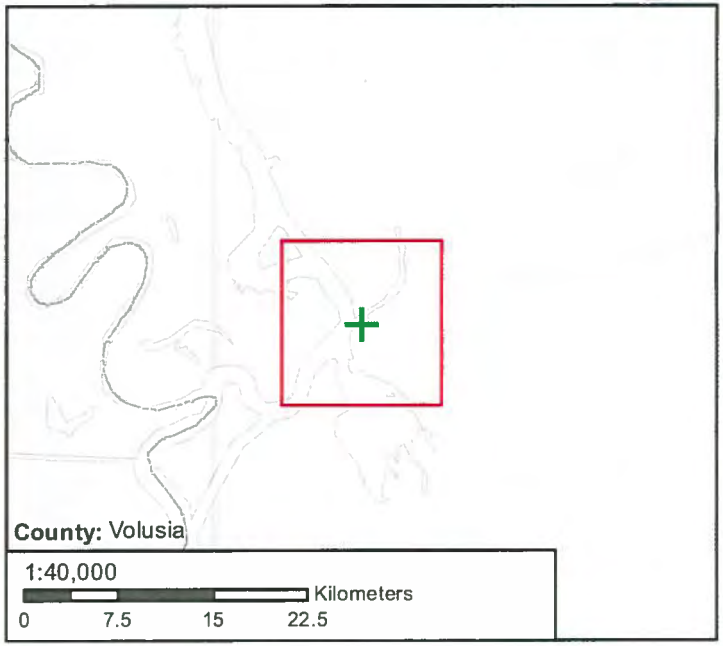
Edited by:
DJS
AJG

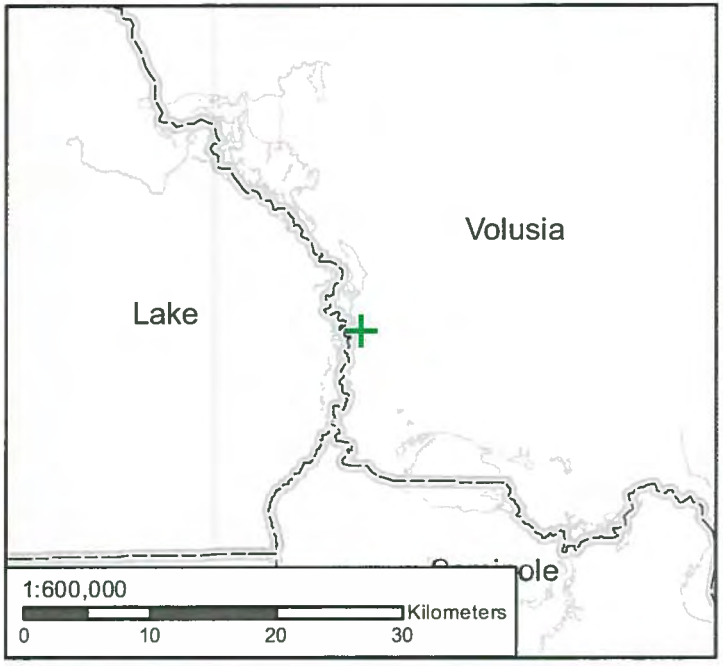
(Rev. 03/18/2013)

Verified Response Location of Manatee Rescue REC1605

Rescue Date: 3/11/2016 **Facility ID:** SWFTm1607b Map Created 9/21/2016







Locality Description:
Blue Springs State Park, kayak launch beach

Latitude: 28.94293°N **Longitude:** -81.34156°W

Szemer, Donna

From: Garrett, Andy <andy.garrett@myfwc.com>
Sent: Monday, March 14, 2016 8:22 AM
To: Adrienne Atkins; Perna, Allison; Amy Teague; Anne Harvey; Arielle Taylor-Manges; Barlas, Margie; Bassett, Brandon; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Parrish, Carollyn; Cathy Beck; Ruben, Cheyanne; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; McCloy, Frank; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Laura Eldridge; Lauren Smith; Leeann Rottman; Lonati, Gina; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melody Fischer; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Panike, Anna; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Robert Wagoner; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Spellman, Ann; Steve Lehr; Susan Butler; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: rescue update
Attachments: IMG_7218.jpg

Tavernier:

On Friday, a rescue team was again unsuccessful in capturing the watercraft wounded manatee in Tavernier. Newer photo attached. The manatee's behavior seemed improved from the previous days. The manatee was able to stay submerged and respirations were reported as normal. This case will be re-evaluated this week.

Blue Springs:

On Friday, SMC reported the small thin manatee, from Wednesday's rescue attempt, back in the spring run with another manatee. These two were the only manatees observed in the Park.

A rescue team responded and netted both manatees near the kayak launch. The non-target (approximately 250 cm) was released and the thin 200 cm male manatee was transported to Sea World.

-Andy

From: Garrett, Andy [mailto:andy.garrett@myfwc.com]
Sent: Wednesday, March 09, 2016 1:48 PM
To: (Group)
Subject: RE: rescue alert

The rescue team encircled the thin manatee with the net along with two other manatees (cow-calf pair). The thin manatee and the calf were able to get out of the net. The rescue team then released the calf.

Shortly after, the thin manatee was observed leaving the spring run and entering into the St. Johns River.

From: Garrett, Andy
Sent: Wednesday, March 09, 2016 10:07 AM
To: (Group)
Subject: rescue alert

Blue Springs: 05/07/16

On Monday, Wayne Hartley reported a thin sub-adult manatee in Blue Springs (photo attached) to the FWC. The manatee appears lethargic and is one of only a dozen still in the spring run. A rescue is being organized for this morning.

-Andy

REC1605
SWFTM16
Hemingway

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1607b**
Date of Report: 2016-Jul-06
Filed By: FWC MMPL

FWC Case #

FWC Region: NE

Sex: Male **Length:** 211 **cm** **Weight:** 167.0 **kg**

DATE REPORTED: 2016-Jul-06 **By:** SeaWorld to FWC-WDG

DATE COLLECTED: 2016-Jul-06 **By:** FWC-WDG

DATE NECROPSIED: 2016-Jul-07 **By:** MMPL-MdW,ALP,BLB,GLL,AJG

LOCATION: **State:** FL **Latitude:** 28.94293 **N**
County: Volusia **Longitude:** -81.34156 **W**
Waterway: St. Johns River
Locality description: Orange City, at the Blue Springs State Park kayak launch beach.

CONDITION: Fresh

PROBABLE CAUSE OF DEATH: Natural: Other

EXPLAIN: Serous fats; Wet lung(s); Bloody lung(s); Bloody nares; Foamy lungs; Tan liver lesions; Enlarged kidneys, spleen, T-septal lymph nodes; Hemorrhage in small intestine wall; Bloody kidneys, liver; Congested mesentery, peritoneum, urinary bladder-, airway mucosa, hemidiaphragms, parietal pleura, meninges, dura; Petechiae parietal pleura, dura; Trachea occluded with mucus; Mucus, fluid in airways; Vegetation in mouth; Lesion in peduncle muscle.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology. Cytology: liver, lung, kidney, brain, spleen, T-septal, peduncle lesions. Microbiology: liver, kidney, lung. Additional ELISA samples in -80: spleen, urine x2, brain x4, proximal SI x3, T-septal x5.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Bacteriology report. Histology report. Rescue report. Liver viral sequencing report. Cytology report.

REMARKS:

PIT tag scan positive (Left: 00-0799-A471; Right: 00-0799-724A). Died on 06 Jul 2016. Died at 1130 hrs. Died in facility. See rescue report REC1605, "Hemmingway", rescued on 11 March 2016. Light grey spots epidermis. Liver tumor confirmed on histology.

Page 1&2	04 AUG 2017
Necropsy Report	04 AUG 2017
Lat/Long	04 AUG 2017

Resc / Dth
3/14/16 3/26/16

Rescue Report

REC1607

Undetermined
(Seizures "chewing bracket")

GENERAL

Date of Rescue: 16 March 2016 Date of Initial Call: 16 March 2016 Filed by: D. Carter

Rescue ID: REC1607 Facility ID: SWFTm1608b Other ID:

FWC Case Number: 2860 FWC Region: NE

Sex: Male Length: 220 cm Estimated: No Weight: 207 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL County: Brevard City: Cape Canaveral Waterway: Banana River

Latitude (Decimal Degrees): 28.41019° N Longitude (Decimal Degrees): - 80.64108° W

Locality Description: approximately 1.06 km WSW of 9005 Charles M Rowland Drive

Method of Capture: Stretcher

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Seizures (undetermined cause)

All Other

Describe: The animal was exhibiting signs of seizure and loss of control of facial muscles. The animal was sitting on a sand bar in about a foot of water and was not able to swim on its own.

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☐	☒
Actual Rescue	☐	☐
Animal After Rescue	☒	☒
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
16 March 2016	At 1350 hrs, FWC biologist-Ann Spellman (ACS) received a text alert from FWC NE Dispatch-Orlando regarding a manatee in distress just south of Ski Island, near Cape Canaveral, Brevard County. FWC case number 2860 was assigned. The complainant, Joseph (321-507-7339), said the manatee appeared to be seizing and sent a video to ACS for verification. ACS contacted FWC biologist-Andy Garrett (AJG) to alert him of a possible rescue. ACS then

	contacted FWC biologists-Danielle Carter (DEC) and William Greer (WDG) and FWC LE for assistance with the rescue. FWC officers Maslo and Kearney were dispatched. ACS contacted SeaWorld-Bob Wagoner to verify that critical care space was available for the manatee. By 1800 hrs, ECFL staff met at the Kelly Park Boat Ramp with the boat and rescue truck and drove the boat to Ski Island where Ofcs. Maslo and Kearney were monitoring the animal. ECFL staff, FWC LE, and two citizens used the stretcher to carry the manatee to the boat, and the manatee was secured in the stretcher alongside the boat gunnel. WDG drove the boat to the north side of the 528 Bridge while DEC and ACS supported the manatee's head above water. The manatee was loaded into the transport truck by 1930 hrs, and transported to Sea World, arriving by 2030 hrs.

PARTICIPANTS

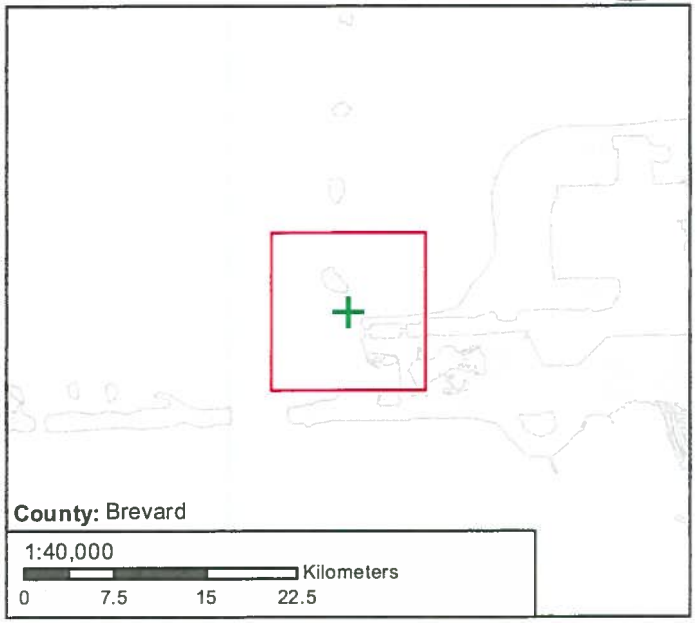
FWC EC: Danielle E. Carter, William D. Greer, Ann C. Spellman
FWC LE: Ofc. Morgan Maslo, Ofc. Brandon Kearney

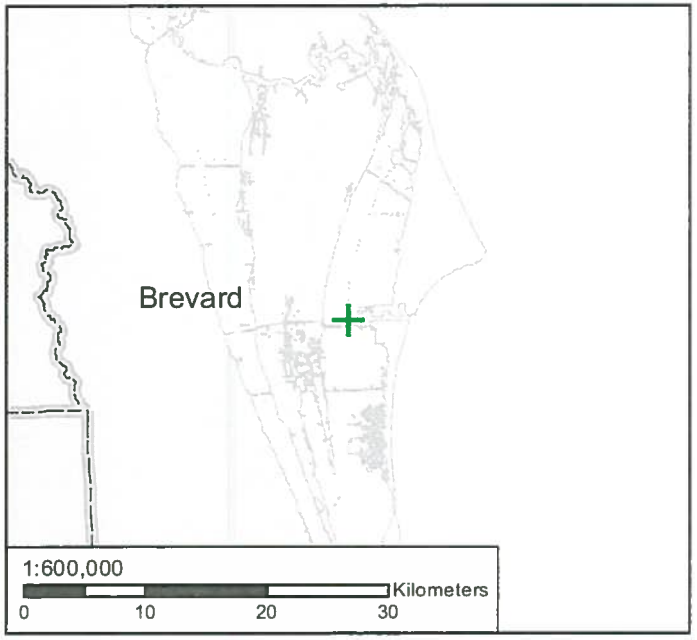
Edited by:
DJS
AJG

(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1607

Rescue Date: 3/16/2016 **Facility ID:** SWFTm1608b Map Created 9/21/2016





Locality Description:
approximately 1.06 km WSW of 9005 Charles M Rowland Dr

Latitude: 28.41019°N **Longitude:** -80.64108°W

Rescue / DTH 3/26/16

From: Greer, Bill
Sent: Thursday, March 17, 2016 12:45 PM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>
Cc: Spellman, Ann <Ann.Spellman@MyFWC.com>; Carter, Dani <Dani.Carterr@MyFWC.com>
Subject: REC1607

Undetermined
Seizures "Chewing" Beached

Date of Rescue: 16 March 2016	Date of Initial Call: 16 March 2016	Filed by: WDG
Rescue ID: REC1607	Facility ID: SWFTm1608b	Other ID:
FWC Case Number: 2860	FWC Region: EC	
Sex: Male	Length: 220 cm Estimated:	Weight: kg Estimated: 485kg
PIT Tag Present: No	PIT Tag Applied: R:	L:
State: FL County: Brevard	City: Cape Canaveral	Waterway: Banana River
Latitude (Decimal Degrees): 28.410334 ° N	Longitude (Decimal Degrees): -80.641134 ° W	
Locality Description: Cape Canaveral, approximately 1.06 kM WSW of 9005 Charles M Rowland Drive		
Method of Capture: Stretcher		

REASON FOR RESCUE

Check one of the following:

Watercraft	Entanglement	Entrapment (Human)
Cold Stress	Red Tide	Tidally Stranded
Orphan	Other: (Specify): _Seizures_____	

Reason for rescue: Animal was having seizures and appeared to be chewing the entire time it was seen. It was also on a sandbar.

Outcome: Captured using a stretcher and transferred to Sea World for treatment.

We will get you the rest of the details as we can.

Bill

Bill Greer
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Indian River Field Lab
1220 Prospect Ave., Ste 285 Melbourne, FL 32901
Office: 321-953-5037 Fax: 321-984-4824
Cell: 321-228-5277
E-mail: bill.greer@myfwc.com

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: SWFTm1608b
Date of Report: 2016-Mar-26
Filed By: FWC MMPL

FWC Case #
FWC Region: NE

Sex: Male **Length:** 218 **cm** **Weight:** 202.0 **kg**

DATE REPORTED: 2016-Mar-26 **By:** SeaWorld-Lara Croft to MMPL-MdW

DATE COLLECTED: 2016-Mar-27 **By:** MMPL-GLL

DATE NECROPSIED: 2016-Mar-28 **By:** MMPL-MdW,AJG,KJR,ALP,GLL

LOCATION:
State: FL **Latitude:** 28.41019 **N**
County: Brevard **Longitude:** -80.64108 **W**
Waterway: Banana River
Locality description: Cape Canaveral, approximately 1.06 km WSW of 9005 Charles M Rowland Dr.

CONDITION: Moderately Decomposed

PROBABLE CAUSE OF DEATH: Undetermined: Other

EXPLAIN: Peanut-shaped head; Flat ventrum; Skin lesions; Depleted fats; Serous fats; Relatively empty GI tract; Bloody lung(s); Serous tissue, lymph nodes; Congested mesenteries, parietal pleura; Bloody liver; Froth in airways; Pinpoint abscess in left lung, fat; Few raised nodules in small intestine-, cecum mucosa; Yellow discoloration of liver parenchyma; Slightly enlarged, serous axillary lymph nodes; Pale Myocardium; Slightly enlarged, heart-shaped spleen.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Scar, Fluke, Cranial, Internal, Other (lesion).

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Histology. DCPAH, GCMS toxicology: liver. -80 in foil: feces, lung, muscle, liver, kidney, abdominal fat. -80: brain, cerebellum, eyes, blood (in teflon jar), ascites. Cytology: ascites, liver, brain, spleen, kidney, axillary lymph node.

DISPOSITION OF MATERIAL:

ADDITIONAL DATA:

Histology report. Rescue report. Toxin report. Cytology report.

REMARKS:

PIT tag scan negative. Died on 26 Mar 2016. Died at 1445 hrs. Died in facility. Monofilament in stomach. See rescue report REC1607. Rescued on 16 March 2016.

Page 1&2	28 Feb 2017
Necropsy Report	28 Feb 2017
Lat/Long	28 Feb 2017

Asst. + Rel

Rescue Report

REC1608

Entanglement & trap Crab

General

Date of Rescue: 22 April 2016 Date of Initial Call: 11 April 2016 Filed by: W. Greer

Rescue ID: REC1608 Facility ID: Other ID:

FWC Case Number: 3978,4266,4324,4355,4405,4410,4537 FWC Region: NE

Sex: Unknown Length: 245 cm Estimated: Yes Weight: kg Estimated:

PIT Tag Present: Unk PIT Tag Applied: No R: L:

State: FL County: Volusia City: New Smyrna Waterway: Indian River North

Latitude (Decimal Degrees): 29.02274° N Longitude (Decimal Degrees): - 80.9158° W

Locality Description: 255 m S of 2 Richmond Dr.

Method of Capture: Disentanglement from vessel (LE officer)

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☒ Entanglement
- ☐ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entanglement

Gear Type: (Check all that apply)

- ☐ Monofilament Line
- ☒ Polyprop/Nylon Line
- ☐ Hook
- ☒ Buoy
- ☐ Sinker
- ☐ Trap
- ☐ Net
- ☐ Other (Specify) _____

Location of Entanglement: around tail

If Crab Pot:

Float#: V9 Color: red and white Line Type: ¼" crab trap warp

Damage from Gear:

- ☐ No Damage
- ☐ Abrasions
- ☒ Breaking Skin Surface Depth of Entanglement Penetration: ~2-3 cm

Comments: Believed to be a double-line wrap around tail with approximately five feet of twisted line. FWC Law Enforcement responded and removed the gear, utilizing a boat hook.

Gear Retained? ☐ Yes ☒ No

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
11 April 2016	At 1633 hrs, FWC biologist-Danielle E. Carter (DEC) received a text alert from FWC NE Dispatch-Orlando regarding a manatee with rope and crab buoy entangled around its tail in Mosquito Lagoon, Merritt Island. FWC case number 3978 was assigned. The complainant, Victor (321-301-9366), reported that the manatee was trailing a white ball with numbers and had been observed for 30 minutes. DEC requested FWC LE assistance. Ofc. Morgan Maslo was sent at 1630 hrs but was unable to locate the animal.
17 April	At 1322 hrs, FWC biologist-Amber R. Howell received a text alert from FWC NE Dispatch-Orlando regarding an entangled manatee in Mosquito Lagoon, Merritt Island. FWC case number 4266 was assigned. The complainant, John (518-842-6672), reported that the manatee was trailing a white ball with numbers on it which was wrapped around its tail. At 1614 hrs, Ofc. Caleb Hallsten observed the manatee from land but was too far away to disentangle it.
18 April	At 1529 hrs, FWC biologist-William D. Greer (WDG) received a text alert from FWC NE Dispatch-Orlando regarding a manatee trailing a crab buoy around its tail in Haulover Canal, Merritt Island. FWC case number 4324 was assigned. The complainant, Lauren Bryce (410-533-1033), reported a manatee with fishing line digging into the flesh and trailing a buoy. The complainant sent photos to WDG that night supporting that this was the same crab trap entangled manatee previously reported (no monofilament seen). The photos were forwarded to FWC rescue coordinator-Andy J. Garrett who agreed the line was unlikely to come off on its own.
19 April	At 0956 hrs, DEC received a text alert from FWC NE Dispatch-Orlando regarding a manatee with rope and a crab buoy around the tail in Indian River, Mims. FWC case number 4355 was assigned. The complainant, Jim Winard (321-615-1522), had received a second hand account from a boater of the manatee trailing a crab buoy. DEC requested FWC LE assistance but no officers were available.

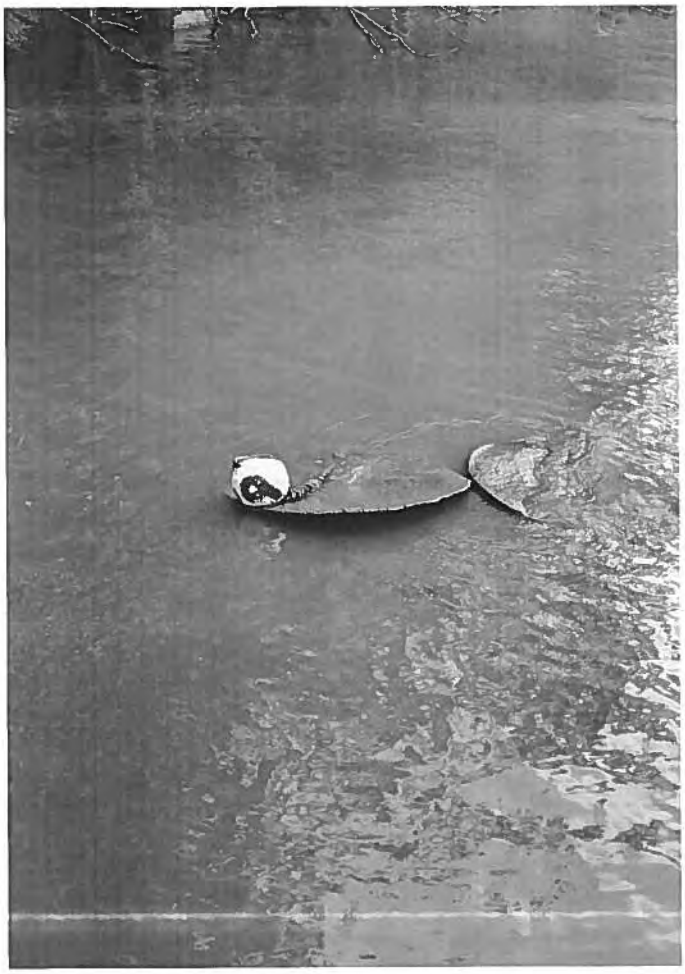
20 April	At 1048 hrs, WDG received a text alert from FWC NE Dispatch-Orlando regarding an entangled manatee in Haulover Canal, Merritt Island. FWC case number 4405 was assigned. The complainant, Karen Walter (570-350-5574), reported that the manatee was trailing a crab trap wrapped around the tail. At 1123 hrs, WDG received a second text alert from Dispatch regarding the entangled manatee. FWC case number 4410 was assigned. The complainant, Jim (540-270-4916), also reported the manatee was trailing a crab buoy from the tail. Sea to Shore biologist-Zack Johnson (ZJ) was in the area and agreed to attempt to disentangle the manatee or attach a tag for tracking. ZJ reported, when he entered the water, the manatee took off as part of a mating herd.
25 April	FWC On-call biologist-Denise M. Boyd (DMB) received a text alert from FWC NE Dispatch-Orlando regarding a manatee with a crab buoy entangled around the tail in Indian River North, New Smyrna Beach. FWC case number 4537 was assigned. DMB notifies FWC-Nadia J. Gordon (NJG). At 1754 hrs, DMB requested an FWC officer to respond, but received no call back.
28 April	NJG contacts DMB for an update, DMB stated that a call back was never received from FWC LE. NJG contacted Dispatch and the duty officer reported that FWC LE Officer Megan Malicoat (MM) freed the manatee of the gear. NJG contacted MM who reported they had approached the animal more than once with their vessel before it swam into shallow water. Using a boat hook they were able to remove the buoy and an estimated five feet of twisted line, which they disposed of. (Prior to that, a complainant, Don, reported a man on a paddleboard made attempts to free the animal with his pocket knife.) NJG sent MM photos of the gear on the animal, and MM stated, "Looks like the same, not 100%, but pretty positive." MM was positive, however, that the tail had no remaining line and nothing was embedded, since they even looked for monofilament, which had been reported by one of the complainants.

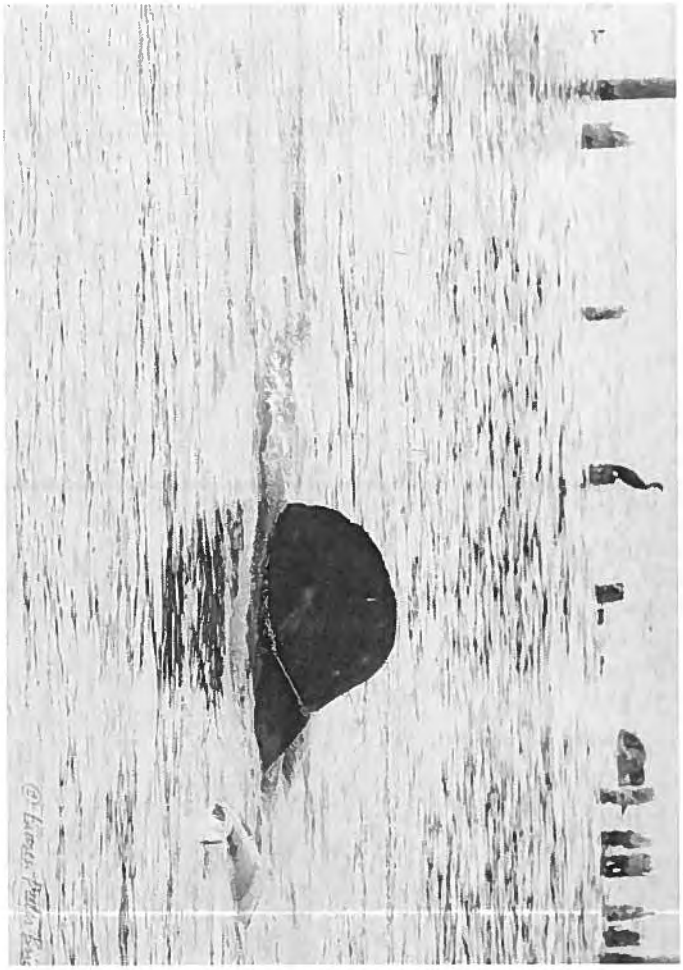
PARTICIPANTS

FWC LE: Officer Megan Malicoat and partner

Edited by:
DJS
AJG

(Rev. 09/28/2015)





REC1608

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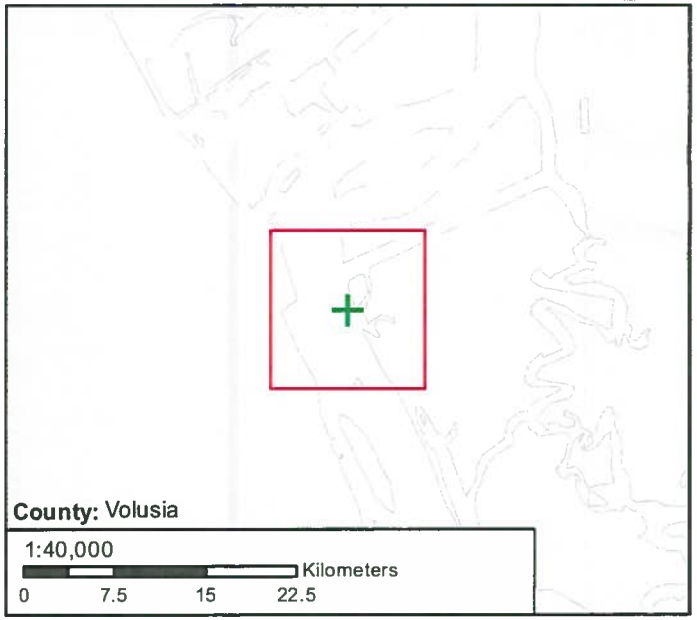
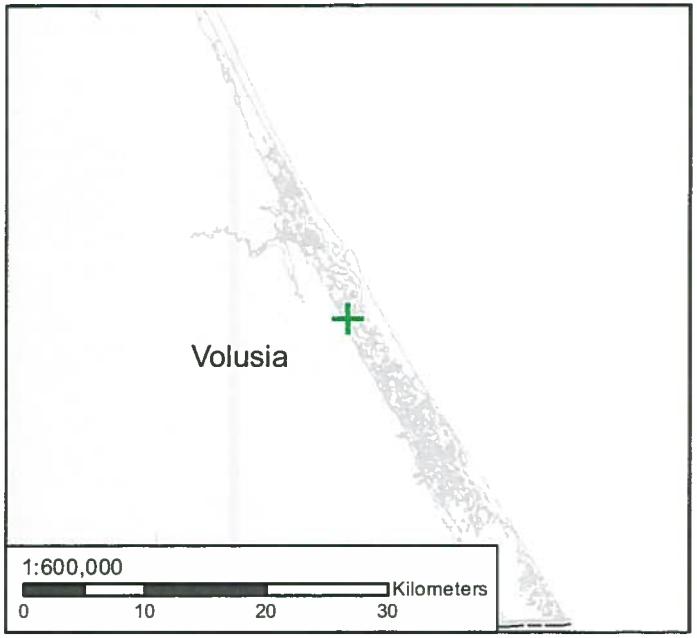
Verified Response Location of Manatee Rescue REC1608

Rescue Date: 4/22/2016 **Facility ID:** N/A Map Created 9/21/2016





Locality Description:
255 m S of 2 Richmond Dr

Latitude: 29.02274°N **Longitude:** -80.9158°W

Asst. a Rel

Entanglement

From: Gordon, Nadia
Sent: Monday, April 25, 2016 5:09 PM
To: Bassett, Brandon <Brandon.Bassett@MyFWC.com>; Szemer, Donna <Donna.Szemer@MyFWC.com>
Cc: Garrett, Andy <Andy.Garrett@MyFWC.com>; Greer, Bill <Bill.Greer@MyFWC.com>
Subject: FW: Crab trap Tm

Hi Brandon/Donna,

See below. What rescue ID would you prefer? We have no preference.

Nadia

-----Original Message-----
From: Greer, Bill
Sent: Monday, April 25, 2016 4:47 PM
To: Gordon, Nadia <Nadia.Gordon@MyFWC.com>; Howell, Amber <Amber.Howell@MyFWC.com>; Garrett, Andy <Andy.Garrett@MyFWC.com>; Carter, Dani <Dani.Carterr@MyFWC.com>
Cc: Boyd, Denise <Denise.Boyd@MyFWC.com>
Subject: RE: Crab trap Tm

Thanks, Nadia. Our next number would be REC1608. Let us know if you want us to do the paperwork portion of it, whatever you prefer.

Bill Greer
Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
4020 South Highway A1A
Melbourne Beach, FL 32951

Cell: 321-228-5277
Wildlife Alert: 1-888-404-3922
E-mail: bill.greer@myfwc.com

-----Original Message-----
From: Gordon, Nadia
Sent: Monday, April 25, 2016 4:44 PM
To: Howell, Amber <Amber.Howell@MyFWC.com>; Garrett, Andy <Andy.Garrett@MyFWC.com>; Greer, Bill <Bill.Greer@MyFWC.com>; Carter, Dani <Dani.Carterr@MyFWC.com>
Cc: Boyd, Denise <Denise.Boyd@MyFWC.com>
Subject: RE: Crab trap Tm
Importance: High

Entangled manatee in Volusia County reported as gear free.

After-hours received the call of a manatee entangled in a circular, red and white buoy on Friday night (4/22). LE responded to the manatee and had to approach the animal more than once with their vessel, before they were able to get it into shallow water. Using a boat hook they were able to remove the buoy and an estimated 5' of twisted line, which they disposed of. (Prior to that a complainant, Don, reported a man on a paddleboard made attempts to free the animal with his pocket knife.) After the FWC officer gave a statement on the disentanglement, I sent her photos of the gear on the animal. She stated, "looks like the same not 100% but

pretty positive". She was however positive that the tail had no remaining line and nothing was embedded, since they even looked for monofilament, which was reported by one of the complainants.

We've had no calls regarding an entangled animal since, and the disentanglement occurred in the area of the last call, so there's a very good chance it's the same animal. The animal was reported Friday night to on-call as north of 44, but per the officer, disentanglement occurred on the south side of the 44 bridge. I can plan to write the rescue report and will give an NEFL number, unless otherwise is preferred.

I did educate the Officer on the importance of retaining gear, working with the biologist, photo documenting, etc. Another issue was dispatch never updated on-call Friday, they were reportedly quite busy.

On a positive note, gear free is good!

Nadia

Rescue
5/12/16

Rescue Report

REC1609

Calf by itself

General

Date of Rescue: 12 May 2016 Date of Initial Call: 11 May 2016 Filed by: D. Carter

Rescue ID: REC1609 Facility ID: SWFTm1611B Other ID:

FWC Case Number: 5551 FWC Region: NE

Sex: Female Length: 116 cm Estimated: No Weight: 27 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: R: L:

State: FL County: Brevard City: Satellite Beach Waterway: Banana River

Latitude (Decimal Degrees): 28.21196° N Longitude (Decimal Degrees): -80.60851° W

Locality Description: approximately 45 m E of 445 Finch Dr

Method of Capture: Hoop net

Reason for Rescue

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☒ Orphan ☐ Other: (Specify): _____

All Other

Describe: Small manatee, alone in canals behind townhome/condo complex.

Visual Record

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☒	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

History

Date	Narrative
11 May 2016	At 1032 hrs, FWC intern-Sarah Mullin (SMM) received a text alert from FWC NE Dispatch-Orlando regarding a lone manatee calf in distress behind 433 Bluejay Ln, Satellite Beach, Brevard County. FWC case number 5551 was assigned. The complainant, Ava (321-265-1923), said the manatee was breathing every 3-4 minutes and had been in the same spot for an hour. SMM request FWC LE assistance and FWC Ofc. Morgan Maslo was sent by land. At

	1200 hrs, SMM discussed the officer's findings with FWC biologist-Amber Howell (ARH) and ARH requested Officer Maslo get closer by boat. At 1310 hrs, Ofc Maslo was next to the manatee and sent a photo to ARH. At 1530 hrs, ARH and SMM arrived at the location and at, 1700 hrs, met FWC biologists-Danielle Carter (DEC) and William Greer (WDG). A few attempts to capture the animal with a hoop net were made but were unsuccessful. ARH, DEC, and WDG decided to try again the next day.
12 May	At 1030 hrs, DEC and WDG launched their boat at Manatee Cove Marina and drove through the canals. At 1145 hrs, ARH and FWC biologist-Marshalluna Land (MEL) launched their kayaks behind 433 Bluejay Ln and met up with DEC and WDG. The calf was located at 1200 hrs and captured using a hoop net by 1230 hrs. The calf was placed in a water trough and carried to the transport truck. ARH and MEL transported the manatee to SeaWorld, arriving at 1400 hrs.

PARTICIPANTS

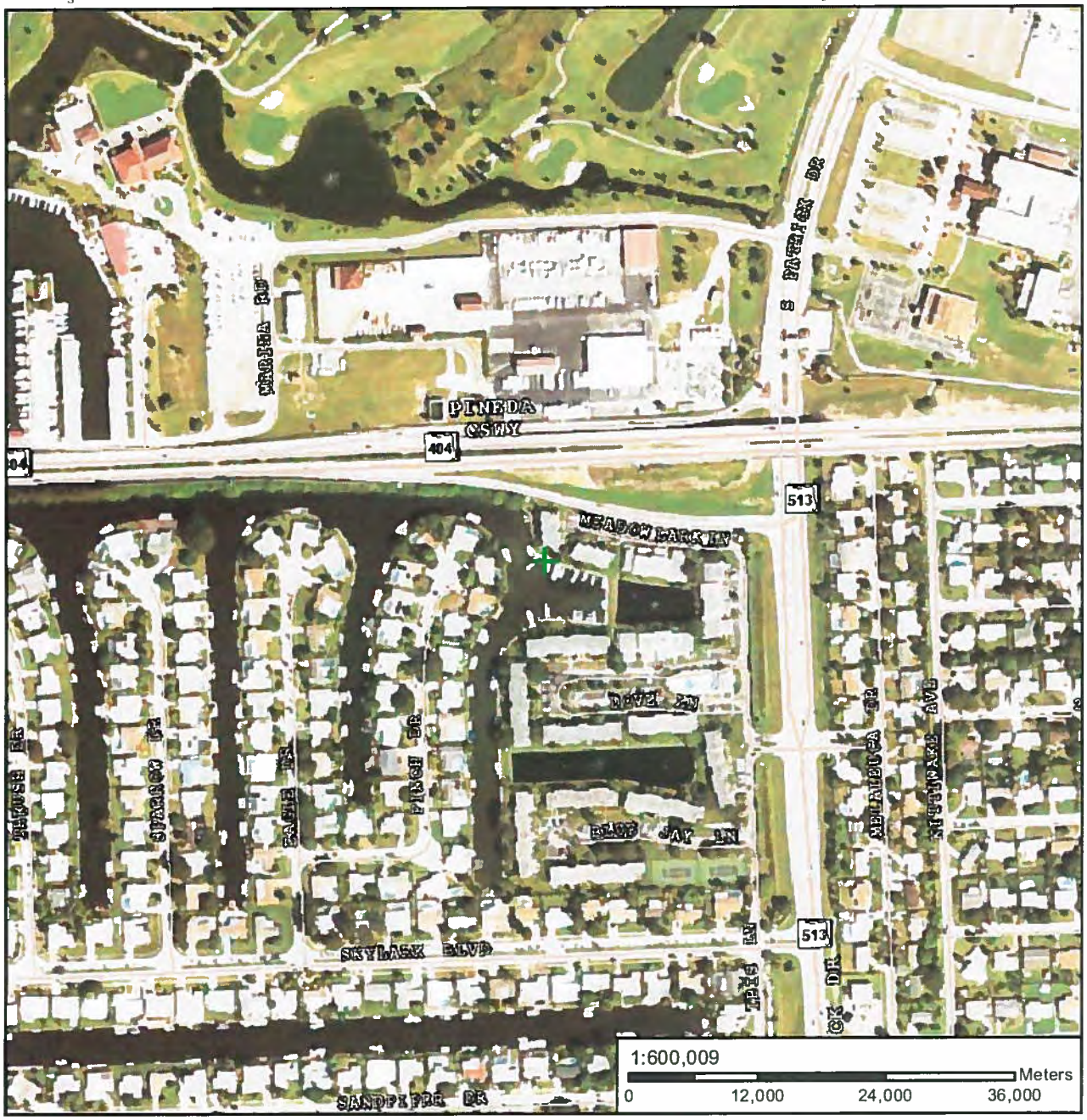
FWC EC: Danielle Carter, Bill Greer
FWC SE: Amber Howell, Marshalluna Land

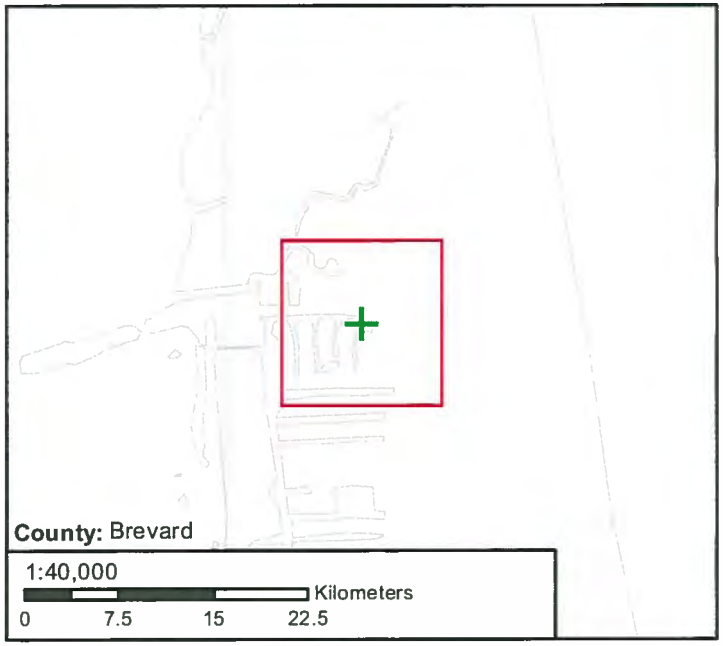
Edited by:
DJS
AJG

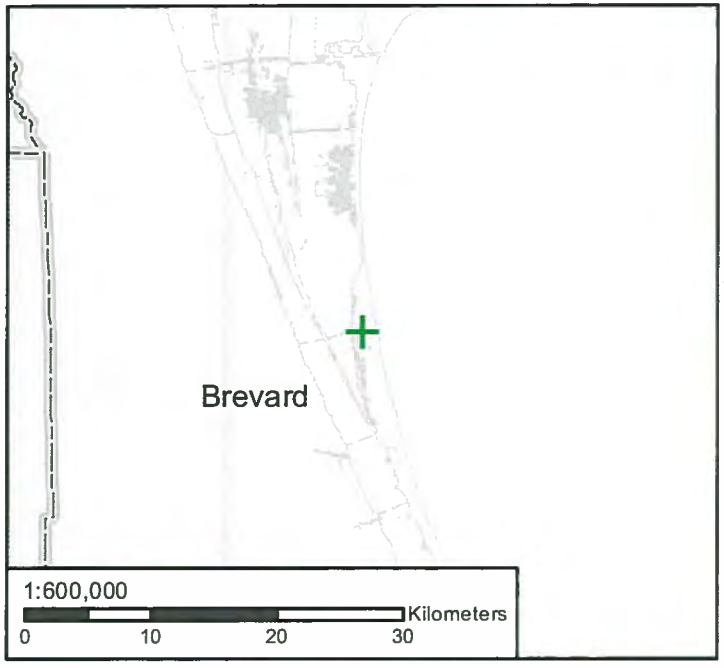
(Rev. 03/18/2013)

Verified Response Location of Manatee Rescue REC1609

Rescue Date: 5/12/2016 **Facility ID:** SWFTm1611b Map Created 10/12/2016







Locality Description:
approximately 45 m E of 445 Finch Dr

Latitude: 28.21196°N **Longitude:** -80.60851°W

Resa

Calf by itself

From: Carter, Dani
Sent: Saturday, May 14, 2016 2:56 PM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>
Cc: Greer, Bill <Bill.Greer@MyFWC.com>
Subject: REC1609 Preliminary Info

GENERAL

Date of Rescue: 12 May 2016	Date of Initial Call: 11 May 2016	Filed by: Danielle E. Carter
Rescue ID: REC1609	Facility ID: SWFTm1611B	Other ID:
FWC Case Number: 5551		FWC Region: NE
Sex: F	Length: 116 cm Estimated: No	Weight: 27.2 kg Estimated: No
PIT Tag Present: No	PIT Tag Applied:	R: L:
State: FL City: Satellite Beach	County: Brevard	Waterway: Banana River
Latitude (Decimal Degrees): 28.211947° N		Longitude (Decimal Degrees): 80.608499° W
Locality Description: Waterway Townhouse Condo, Approx 10 meters SSE of 423 Ibis Lane, Building 15		
Method of Capture: Hoop net		

REASON FOR RESCUE

Orphaned calf.

Dani Carter

Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Melbourne Marine Mammal Research Lab
4020 S. Hwy A1A
Melbourne Beach, FL 32951
Dani.Carter@myfwc.com
Cell: (321)228-5283

Rose

From: Garrett, Andy
Sent: Thursday, May 12, 2016 1:06 PM
To: (Group)
Subject: RE: Rescue Alert

SWFTM1611B
REC1609 (calf by itself)

The calf from Satellite Beach was found alone again today. I've attached another photo taken yesterday afternoon.

The calf has been hoop netted and is being transported to Sea World.

From: Garrett, Andy
Sent: Thursday, May 12, 2016 8:20 AM
To: (Group)
Subject: RE: Rescue Alert

The rescue team was unable to capture the calf yesterday and will be out searching for it today.

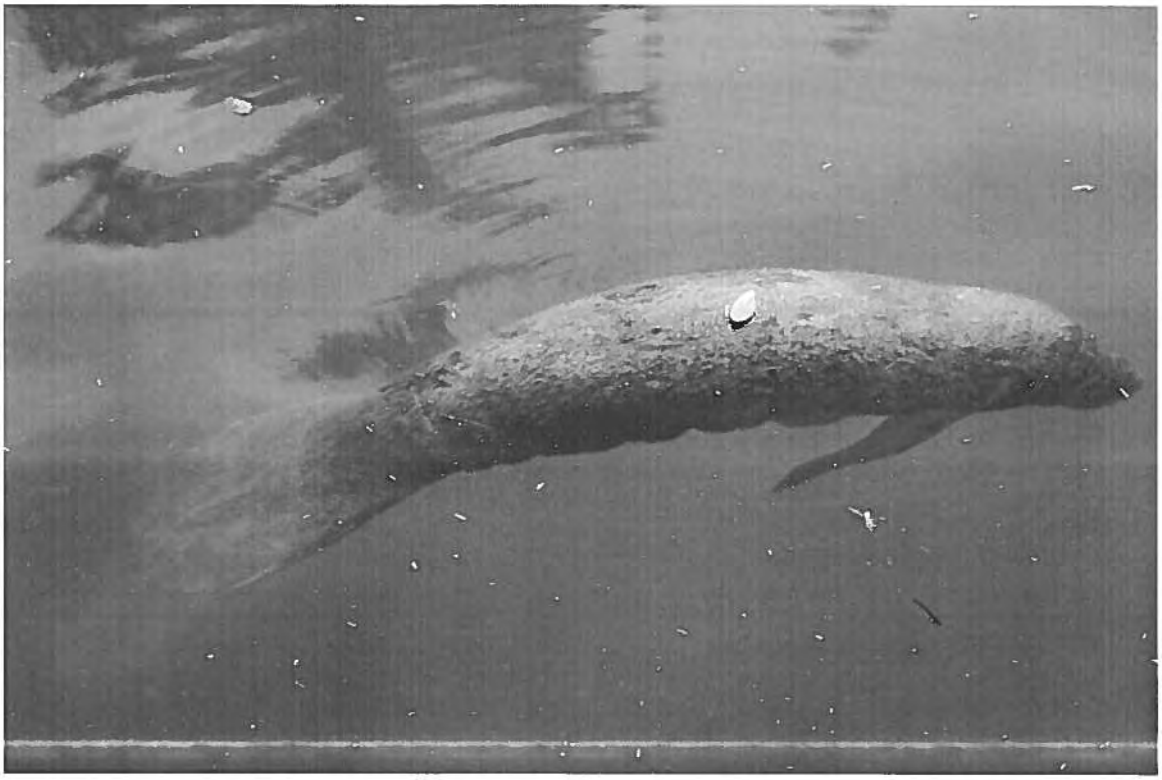
From: Garrett, Andy
Sent: Wednesday, May 11, 2016 1:20 PM
To: (Group)
Subject: Rescue Alert

Satellite Beach:

The ECFL received a report of a lone 4-4.5 ft manatee (first observed at 0930 hrs) in Satellite Beach. A FWC LE officer was dispatched and confirmed the report. From the attached photo, the manatee looks thin as well. A rescue team is responding and will attempt to hoop net the calf.

FWC will be calling Sea World to check if they can accept the manatee.

-Andy



SWFTM1611 B
REC1609

FLORIDA TODAY

SW FTM1611B
REC1609

Manatee calf rescued near Satellite beach

7:40 p.m. EDT May 17, 2016

An orphaned manatee calf was rescued near the Satellite Beach area by the FWC and taken to SeaWorld in Orlando.(Photo: SeaWorld Orlando)

An orphaned manatee calf is being rehabilitated at SeaWorld after the Florida Fish and Wildlife Commission recently rescued it in the Satellite Beach area, SeaWorld Orlando says.

The calf is receiving nutritional support and is being watched around the clock. The manatee was also measured and a vet team obtained diagnostic samples, they add.

SeaWorld Orlando says it has rescued 11 manatees and returned 13 back into the wild so far this year.

http://www.floridatoday.com/story/news/local/2016/05/17/manatee-calf-rescued-near-satellite-beach/84504756/

Fox 35 Orlando

Three manatees rescued and being cared for at SeaWorld Orlando

Three manatees rescued by SeaWorld Orlando.

Posted: May 18 2016 06:53AM EDT
Updated: May 18 2016 06:53AM EDT

ORLANDO, Fla - SeaWorld Orlando's critical care facility received a 1,255-pound manatee mother and her young calf for acute rehabilitation after being rescued May 9 by the Florida Fish and Wildlife Conservation Commission (FWC) from Tomoka River near Ormond Beach in Volusia County, Fla. In addition, the team also recently received a rescued orphaned manatee from Satellite Beach, Fla.

(RDE1604/SWFTM1609B + RDE1605/SWFTM1610B)

Mother and calf pair - After careful monitoring by the FWC, it was determined that the 10-foot-2-inch-long manatee mother was experiencing severe buoyancy issues, which could negatively impact her health, eating patterns and the nursing of her calf.

Due to the impact scar on the adult manatee's back, it is presumed that she was struck by a watercraft. This caused her to suffer from a pneumothorax (air trapped inside body cavity), so SeaWorld's expert veterinary team placed the manatee in a wetsuit to stabilize the manatee's buoyancy issue and was successful in removing the air trapped in the chest cavity.

Three manatees rescued and being cared for at SeaWorld Orlando (SeaWorld Orlando)

(SeaWorld Orlando)

Today, the manatee is no longer in the wetsuit and has been seen swimming more upright. Although showing signs of progress, the care team still remains guarded and has performed radiographs on the mother to ensure there are no broken bones or any other internal damage caused by the watercraft.

The mother's young calf came in weighing approximately 97 pounds, measuring 4 feet and 5 inches, and still nursing from its mother. The calf has not left its mother's side and has continued to nurse consistently throughout the rehabilitation process. The calf has also begun to take an interest in eating solid foods, which is a sign of good health.

SWFT#11611B/REC1609

Orphaned manatee - FWC also rescued a young, orphaned, female manatee calf from the Satellite Beach area and transported it to SeaWorld Orlando. Upon arrival, the manatee was measured and the veterinary team obtained diagnostic samples. The orphaned calf received immediate nutritional support and is currently under a 24-hour watch by the SeaWorld Animal Care team.

The SeaWorld Animal Care Team will continue to work around the clock to provide these three manatees the highest quality of care with the ultimate goal of returning them back to their natural environment.

This year, SeaWorld Orlando has rescued 11 manatees, and returned 13 back to the wild.

http://www.fox35orlando.com/fast-five/142514346-story

Asst. + Rel

Rescue Report

REC1610

Entanglement
Crab trap

General

Date of Rescue: 18 May 2016 Date of Initial Call: 18 May 2016 Filed by: D. Carter

Rescue ID: REC1610 Facility ID: NA Other ID:

FWC Case Number: 5915 FWC Region: NE

Sex: Unk Length: 245 cm Estimated: Yes Weight: NT kg Estimated:

PIT Tag Present: Unk PIT Tag Applied: R: L:

State: FL County: Brevard City: Titusville Waterway: Indian River

Latitude (Decimal Degrees): 28.55463° N Longitude (Decimal Degrees): -80.79578° W

Locality Description: approximately 70 m SE of 4749 S Washington Ave

Method of Capture: Citizen rescue; Boat hook and knife.

Reason for Rescue

Check one of the following:

- ☐ Watercraft
- ☒ Entanglement
- ☐ Entrapment (Human)
- ☐ Cold Stress
- ☐ Red Tide
- ☐ Tidally Stranded
- ☐ Orphan
- ☐ Other: (Specify): _____

Entanglement

Gear Type: (Check all that apply)

- ☐ Monofilament Line
- ☒ Polyprop/Nylon Line
- ☐ Hook
- ☒ Buoy
- ☐ Sinker
- ☒ Trap
- ☐ Net
- ☐ Other (Specify) _____

Location of Entanglement: Right flipper

If Crab Pot:

Float#: NA Color: Orange Line Type: Braided nylon

Damage from Gear:

- ☐ No Damage
- ☐ Abrasions
- ☐ Breaking Skin Surface

Depth of Entanglement Penetration: ___ cm

Comments: Citizens cut line before ECFL staff could respond. Staff was not able to confirm if the manatee was still present after release, so an assessment was not conducted.

Gear Retained? ☒ Yes ☐ No

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☒	☐

HISTORY

Date	Narrative
18 May 2016	At 0930 hrs, FWC biologist-Danielle Carter (DEC) received a text alert regarding a manatee entangled in a crab trap at the Kennedy Point Marina and Yacht Club in Titusville, Brevard County. FWC case number 5915 was assigned. The complainant, James Flint (508-208-3053), stated that the manatee's right flipper was entangled in a line attached to an orange buoy. It seemed that the line was attached to something fixed in the water and it appeared that the animal was not able to swim freely. DEC requested a picture, requested FWC LE assistance, and contacted FWC biologist-Amber Howell (ARH) and MMPL rescue coordinator-Andrew Garrett (AJG) to notify them of the rescue. DEC received a verification photo via text from the complainant at 1028 hrs. While driving to Titusville, DEC received a call from the complainant saying that the marina staff were cutting the manatee free. After cutting the line, the manatee was able to swim freely and it did not appear to have line on its flipper. They collected the buoy and crab trap. DEC informed AJG of the situation and cancelled the LE request. DEC arrived at the site by 1155 hrs to collect the gear. DEC didn't notice any animals with injuries or line entanglements. The rope was examined and it appeared that all gear was present and free of the manatee.

PARTICIPANTS

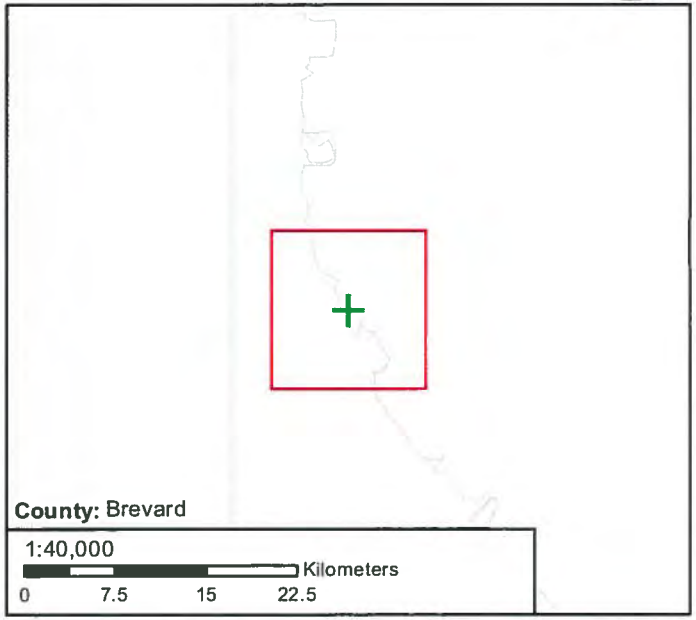
FWC EC: Danielle E. Carter
Citizens

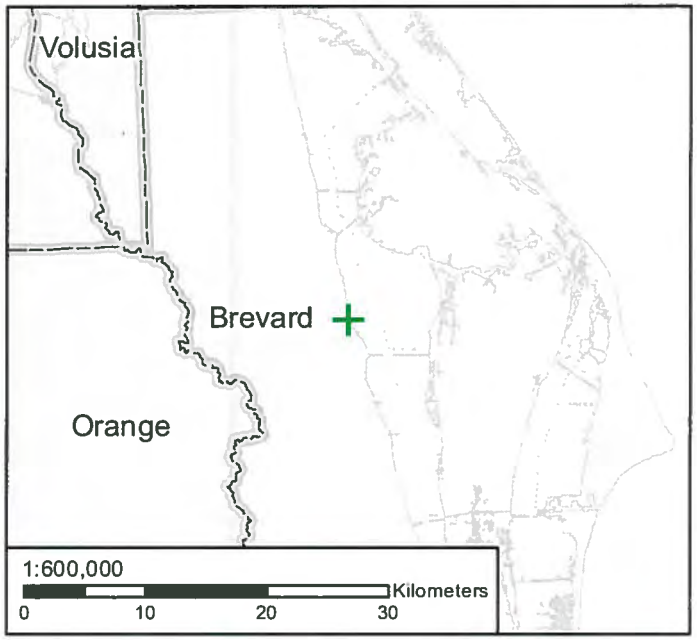
Edited by:
DJS
AJG

(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1610

Rescue Date: 5/18/2016 **Facility ID:** N/A Map Created 10/12/2016





Locality Description:
approximately 70 m SE of 4749 S Washington Ave

Latitude: 28.55463°N **Longitude:** -80.79578°W

From: Carter, Dani
Sent: Thursday, May 19, 2016 1:04 PM
To: Szemer, Donna <Donna.Szemer@MyFWC.com>
Cc: Greer, Bill <Bill.Greer@MyFWC.com>
Subject: REC1610 Prelim Info

General

Date of Rescue: 18 May 2016	Date of Initial Call: 18 May 2016	Filed by: Danielle E. Carter
Rescue ID: REC1610	Facility ID:	Other ID:
FWC Case Number: 5915		FWC Region: NE
Sex: U	Length: 245 cm Estimated: yes	Weight: NT kg Estimated:
PIT Tag Present: U	PIT Tag Applied:	R: L:
State: FL City: Titusville	County: Brevard	Waterway: Indian River
Latitude (Decimal Degrees): 28.5546444° N		Longitude (Decimal Degrees): 080.7957500° W
Locality Description: Approx. 150 m SSE of 4749 S Washington Ave.		
Method of Capture: Citizen rescue; Boat hook and knife		

Reason for Rescue
Crab trap entanglement. Citizen rescue. Released on site.

Dani Carter

Marine Mammal Biologist
Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Melbourne Marine Mammal Research Lab
4020 S. Hwy A1A
Melbourne Beach, FL 32951
Dani.Carter@myfwc.com
Cell: (321)228-5283

REC1610

Resc / Rpt
6/3/16 / 6/4/16

Rescue Report

REC1611

Undetermined / Buoyant - unknown origin

GENERAL

Date of Rescue: 03 June 2016 Date of Initial Call: 03 June 2016 Filed by: Danielle E. Carter

Rescue ID: REC1611 Facility ID: SWFTm1613b Other ID:

FWC Case Number: 6770 FWC Region: NE

Sex: Male Length: 265 cm Estimated: No Weight: 366 kg Estimated: No

PIT Tag Present: No PIT Tag Applied: No R: L:

State: FL County: Brevard City: Melbourne Waterway: Indian River

Latitude (Decimal Degrees): 28.07993° N Longitude (Decimal Degrees): 80.59975° W

Locality Description: approximately 60 m NNE of 2205 Front St.

Method of Capture: Land based, boat capture

REASON FOR RESCUE

Check one of the following:

☐ Watercraft ☐ Entanglement ☐ Entrapment (Human)

☐ Cold Stress ☐ Red Tide ☐ Tidally Stranded

☐ Orphan ☒ Other: (Specify): Positively buoyant, but not watercraft (Undetermined)

All Other

Describe: Positively buoyant and unable to submerge for more than a few seconds at a time; algae ring on the back; using flippers to move around. It didn't appear to be related to a watercraft injury as there were no wounds or signs of impact.

VISUAL RECORD

	Photo - Digital	Video
Rescue Location	☐	☐
Animal Before Rescue	☒	☐
Actual Rescue	☐	☐
Animal After Rescue	☐	☐
Wounds	☐	☐
Scars	☐	☐
Gear Alone (if entangled)	☐	☐

HISTORY

Date	Narrative
03 June 2016	At 0734 hrs, FWC biologist- Denise Boyd (DMB) received a text alert from FWC NE Dispatch-Orlando regarding an injured manatee in Melbourne, Brevard County. FWC case number 6770 was assigned. The complainant, Davis Sullivan (321-200-2107), said that the manatee was four feet long, rolling

	and swimming in circles in the shallows, and had barnacles on its skin. The complainant sent DMB a verification photo. At 0800 hrs, DMB alerted FWC biologist-Danielle Carter (DEC) to make her aware of the situation. At 0900 hrs, DEC arrived at the location and waded out into the water to evaluate the manatee. After observation, DEC alerted FWC rescue coordinator-Andrew Garrett (AJG) and SeaWorld Florida (SWF)-Randy Runnells that the manatee would need to be rescued. Randy said that SWF would be able to bring a team out to rescue and transport the manatee back to SeaWorld. At 1020 hrs, FWC volunteer-Leesa Whitleff arrived on a kayak to assist DEC with monitoring the animal until SWF arrived. At 1216 hrs, Randy and the SWF team arrived at the Front Street boat ramp and launched their rescue boat. The rescue team attempted a boat/land-based net set, but the net caught on rocks in the water. The target animal and additional manatees got out of the net on their own. Leesa followed the target animal while DEC and SWF reset the net. A second boat/land-based net set was utilized to successfully capture the manatee by 1330 hrs. The manatee was put into a stretcher, loaded into SWF's rescue truck, and transported to SeaWorld.

PARTICIPANTS

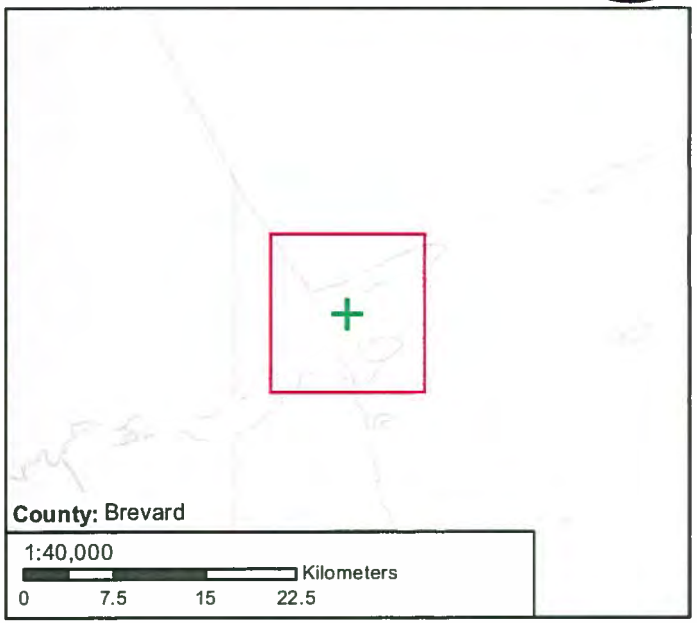
FWC EC: Danielle E. Carter
FWC volunteer: Leesa Whitleff
SeaWorld: Randy Runnells and animal care staff

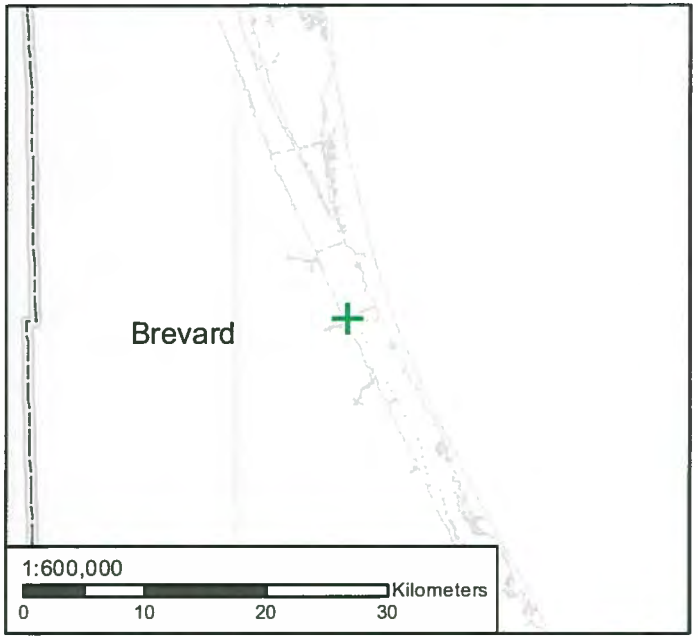
Edited by:
DJS
AJG

(Rev: 03/18/2013)

Verified Response Location of Manatee Rescue REC1611

Rescue Date: 6/3/2016 **Facility ID:** SWFTm1613b Map Created 10/12/2016





Locality Description:
approximately 60 m NNE of 2205 Front St

Latitude: 28.07993°N **Longitude:** -80.59975°W

Szemer, Donna

REC1611
SWFTM16138

From: Garrett, Andy
Sent: Monday, June 06, 2016 9:35 AM
To: Adrienne Atkins; Perna, Allison; Amy Teague; Anne Harvey; Arielle Taylor-Manges; Barlas, Margie; Bassett, Brandon; Bill Hughes; Boyd, Denise; Buddy Powell; Knox, Carol; Parrish, Carollyn; Cathy Beck; Ruben, Cheyanne; Deutsch, Chip; Cora Berchem; Craig Miller; Craig Pelton; Dave Murphy; deWit, Martine; McCloy, Frank; Frisch, Katherine; Georgia Zern; Gordon, Nadia; Gretchen Lovewell; Honaker, Allison; Howell, Amber; Johnson, Jennifer; Jim Reid; Jim Valade; Katie Tripp; Kelsey Jennings; Kimberlee Tennile; Koslovsky, Stacie; Laura Eldridge; Lauren Smith; Leeann Rottman; Lonati, Gina; Lowry Park Zoo Florida Mammals; Martin, Baryl; Martz, Meg; Maya; Melody Fischer; Melynda Brown; Merrill, Maria; Mezich, Ron; Michael Boos; Mike Walsh; Monica Ross; Morse, Gary; Mosier, Andrea; Panike, Anna; Pat Rose; Pernell, Jessica; Randy Runnells; Ray Ball; Rebecca Hazelkorn; Reinert, Tom; Richmond, Kelly; Rigney, Kane; Robert Bonde; Robert Rose; Rood, Kari; Ruth Francis-Floyd; Salberg, Leonard; Segelson, Carli; Steve Lehr; Susan Butler; Szemer, Donna; Virginia Edmonds; Ward, Leslie; Young, Roger
Subject: rescue updates
Attachments: 21060605_left side inj manatee.jpeg

Unfortunately the manatee that was rescued Friday in Melbourne died at Sea World overnight/early morning on Saturday.

Titusville:

ECFL staff surveyed the area yesterday of the reported entrapped manatee from last week. No manatees were observed in the lagoon. After speaking with local businesses/industry, it sounds like the manatee has been going to and from the culvert over the past few days. ECFL staff will work with the city to install a grate on the culvert to prevent any potential entrapments in the system.

Cape Coral:

The buoyant and listing 9 ft manatee was reported again in Cape Coral in the same general area as last week.

Moore Haven Lock:

A buoyant and listing adult manatee with a watercraft wound was reported by lock tenders yesterday afternoon near the Moore Haven Lock (see attached photo).

Note: Unfortunately due to tropical weather expected along the Gulf coast the beginning of this week, rescue efforts for the two buoyant manatees will be postponed until we have a better weather window.

Safety Harbor, FL (Pinellas):

The crab trap entangled manatee was not reported this weekend. Yesterday, a FWC volunteer visited the Safety Harbor pier to look for the crab trap entangled manatee from last week. He wound up talking to a man who said a woman reeled in a derelict crab trap right below the pier today. There was some rope attached to it that looked like it had been recently cut. No buoy was attached. Unfortunately, the man threw the rope back in the water, but our volunteer was able to pick up the crab trap and he brought it to the MMPL. Not sure if someone cut our entangled manatee "free," or if this is just a derelict trap, but we will continue to investigate.

REC1611
SWFTM16138

From: Garrett, Andy
Sent: Friday, June 03, 2016 3:12 PM
To: (Group)
Subject: RE: rescue alerts

The Melbourne manatee was caught and is in transport to SeaWorld.

From: Garrett, Andy
Sent: Friday, June 03, 2016 10:13 AM
To: (Group)
Subject: rescue alerts

All,

The FWC has been monitoring several cases this week:

Melbourne:

FWC-ECFL responded to a report of a buoyant manatee this morning in the Indian River Lagoon. The manatee is estimated to be 7 ft and positively buoyant. No wounds are being observed, but appears to be thin (attached IMG 8358). A Sea World rescue team is responding.

Titusville:

Yesterday, the FWC-ECFL responded to a report of an entrapped manatee in Titusville. The caller said the manatee has been seen in the pond/lagoon for the past 4 days. A FWC volunteer responded and said the lagoon is connected to the river by a 100 m culvert. The approximately 6 ft manatee seems to have scrapes on its muzzle as well. ECFL staff had planned on investigating this situation more this morning, but postponed due to the Melbourne manatee.

Cape Coral:

Yesterday afternoon, the SWFL received a report of a buoyant and listing 9 ft manatee in Cape Coral (attached FWC028 2016-06-02). A rescue team is on stand-by. FWC LE has been searching the area since 0700 hrs this morning, but have not located the manatee.

Safety Harbor, FL (Pinellas):

On Wednesday, MMPL staff received a report of a crab trap entangled manatee at the Safety Harbor fishing pier (attached IMG 0850). A biologist responded and attempted to clip on a VHF tag, but was unsuccessful before the manatee was lost. Based on the position of the crab trap float (tight to the body) and the mud trail behind the manatee, it seems the manatee is entangled around one of its flippers and is dragging a trap.

Late yesterday, a fisherman observed the manatee swimming near the Courtney-Campbell Causeway between Hillsborough and Pinellas Counties.

REC1611
SWFTM1613B

Report of a Dead Manatee

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Marine Mammal Pathobiology Laboratory
3700 54th Avenue South St. Petersburg, FL 33711 (727) 893-2904

Field ID #: **SWFTm1613b**
Date of Report: 2016-Jun-04
Filed By: FWC MMPL

FWC Case # 6770 **FWC Region:** NE

Sex: Male **Length:** 265 **cm** **Weight:** 366.5 **kg**

DATE REPORTED: 2016-Jun-04 **By:** SeaWorld-Runnels to FWC-DEC

DATE COLLECTED: 2016-Jun-04 **By:** FWC-DEC

DATE NECROPSIED: 2016-Jun-04 **By:** MMPL-MdW,ALP FWC-DEC

LOCATION: **State:** FL **Latitude:** N
County: Brevard **Longitude:** W
Waterway: Indian River
Locality description: Melbourne, approximately 60 m NNE of 2205 Front Street.

CONDITION: Moderately Decomposed

PROBABLE CAUSE OF DEATH: Undetermined: Other

EXPLAIN: Bloody lung(s); Bloody nares; Congested meninges, peritoneum, mesenteries, kidney capsules, hemidiaphargms, thymus with petechiae, testes, lungs, airway mucosa; Hemorrhage cardiac gland, mesentery; Mucus, froth in airways; Stomach, duodenum severely distended with gas; Hemorrhagic small intestine wall with thickened mucosa and torn, friable portion; Red fluid in upper GI tract; Wet GI contents with macroalgae; Colon mucosa sloughing in sheets; Thickened small intestine-, cecum mucosa; Seagrass in mouth; Enlarged lymph nodules; Specks parietal pleura. Necropsy findings fit the case description of the ongoing east coast UME. Cause of this event was still under investigation at the time this report was finalized.

PHOTOGRAPHS TAKEN: Dorsal, Ventral, Lateral, Fluke, Cranial, Internal.

MATERIALS COLLECTED:

Genetics, Earbone, ELISA toxicology samples, Archive toxicology samples, Histology. FWRI bacteriology: Stomach, duodenum, proximal SI-, distal SI-, proximal colon sausage, axillary Ln, blood, liver, kidney, cecum. -80 samples: cerebrum, cerebellum, kidney, liver, stomach cont., duodenum cont., proximal SI cont., feces, mid SI cont. x2, cecum cont., proximal colon cont., distal SI cont., mid SI vegetation, lung, T-septal Ln, axillary Ln, vegetation from mouth.

DISPOSITION OF MATERIAL: FWC MMPL.

ADDITIONAL DATA:

Histology report. Rescue report.

REMARKS:

PIT tag scan negative. Died in facility. Monofilament in loose GI contents in abdomen. Died sometime during the night/early morning. See rescue report REC1611, rescued on 03 June 2016. Small adhesions of fibrin-like material in abdominal cavity.

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