

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Wednesday, March 30, 2022 9:54 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: Neilan, Brian
Subject: [External_Sender] Salem Generating Station - Incidental Take Report Atlantic Sturgeon 3/29/2022
Attachments: Sturgeon Incidental Take Report for 03-29-2022.pdf

Attached are the Incidental Take Report and Data Collection Form for a live Atlantic sturgeon collected on 3/29/2022 from the Salem Generating Station during routine raking of the cooling water intake trash bars. The specimen was returned to the Delaware River following examination. This incidental take is authorized under Biological Opinion NER-2010-6581.

Thanks, and please let me know if you have any questions or need additional information.

Richard Cary
Environmental Compliance & Program Manager
PSEG Nuclear Environmental Affairs
O: 856-339-1487

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Email Number: 1579

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Subject: [External_Sender] Salem Generating Station - Incidental Take Report Atlantic Sturgeon 3/29/2022
Sent Date: 3/30/2022 9:53:39 AM
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From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"Neilan, Brian" <Brian.Neilan@dep.nj.gov>
Tracking Status: None
"incidental.take@noaa.gov" <incidental.take@noaa.gov>
Tracking Status: None
"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>
Tracking Status: None

Post Office: pseg.com

Files	Size	Date & Time
MESSAGE	1223	3/30/2022 9:53:59 AM
Sturgeon Incidental Take Report for 03-29-2022.pdf		384594

Options

Priority: Normal
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:

Appendix C, Part 2A (Sturgeon)

Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Doug Potts (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Doug Potts

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 12B

Date animal observed: 03/29/2022 Time animal observed: 12:45 PM

Date animal collected: 03/29/2022 Time animal collected: 10:30 AM

Environmental conditions at time of observation (i.e., tidal stage, weather):

Air temp. – 2.5°C; Sal. – 7.0 ppt; Wind –NW; sky – partly cloudy; Wave – moderate; tide- Eb1(93.0 ft.)

If removed from intakes (trash racks or traveling screens):

Date and time of last inspection of screen: 03/29/2022; at 10:16AM

Water temperature (°C) at site and time of observation: 8.5 °C

Number of pumps operating at time of observation: Unit 1: 6 circulators / Unit 2: 6 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 99.5%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.7% /Unit 2: 99.7%

STURGEON DATA COLLECTION FORM

For use in documenting sturgeon injury or mortality incidental to a federal action

OBSERVER'S CONTACT INFORMATION

Name: First Doug Last Potts
Agency Affiliation PSEG subcontractor Email Doug.Potts@pseg.com
Address 100 South Cass Street, Middletown, DE 19709
Area code/Phone number (302) 378-9881 (Environmental Consulting Services, Inc.)

SEC 7 UNIQUE IDENTIFIER (PCTS No. Assigned by NMFS)

DATE REPORTED:
Month 03 Day 29 Year 2022
DATE EXAMINED:
Month 03 Day 29 Year 2022

SPECIES: (check one)

- shortnose sturgeon
 Atlantic sturgeon
 Unidentified *Acipenser* species
Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.

LOCATION FOUND: Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
River/Body of Water Delaware River City Lower Alloways Creek State NJ
Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWIS) trash racks, intake bay 12B, during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.

Latitude 39.460603° (Dec. Degrees) Longitude -75.536133° (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

- 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeletal, scutes & cartilage

SEX:

- Undetermined
 Female Male
How was sex determined?
 Necropsy
 Eggs/milt present when pressed
 Borescope

MEASUREMENTS:

	Circle unit
Fork length	<u>UNM</u>
Total length	<u>UNM</u>
Length <input type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>2.5 cm</u>
Interorbital width (see reverse side)	<u>5.7 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>2.6 kg</u>

TAGS PRESENT? Examined for external tags including fin clips? Yes No Scanned for PIT tags? Yes No

Tag #	Tag Type	Location of tag on carcass
<u>None Found</u>		

CARCASS DISPOSITION: (check one or more)

- 1 = Left where found
 2 = Buried
 3 = Collected for necropsy/salvage
 4 = Frozen for later examination
 5 = Other (describe). Specimen was alive, but was missing the caudal fin. After processing, and a period of holding to reduce stress, it was released back to the Delaware River.

Carcass Necropsied?

Yes No
Date Necropsied: _____
Necropsy Lead: _____

PHOTODOCUMENTATION:

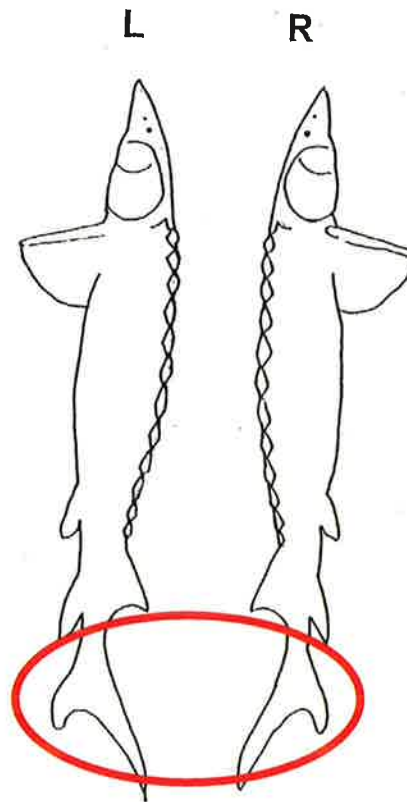
Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)
<u>Pelvic fin clip</u>	<u>stored in non-denatured ethanol and refrigerated.</u>	<u>Held at the office of ECSI for aggregated shipment to designated laboratory</u>

Comments: A damaged, but alive Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 03/29/2022, at approximately 10:30AM. After positive identification was made by Environmental Consulting Services personnel, the specimen was photographed and inspected for tags. No evidence of external tags was found, and no existing PIT tag was indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #96500000358538. A pelvic fin clip was also collected for future DNA analysis. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory. Upon completion of processing, the specimen was released back to the Delaware River at 13:10PM.

Draw wounds, abnormalities, tag locations on diagram and briefly describe below



Entire caudal fin, including the caudal peduncle missing immediately posterior to the dorsal and anal fin.

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was alive, but was missing the caudal fin, including the caudal peduncle, from a point immediately posterior to the dorsal and anal fin (refer to illustration). PIT tagging was administered, with specimen identified with tag number #96500000358538, implanted below the dorsal fin on the left side of the torso.**

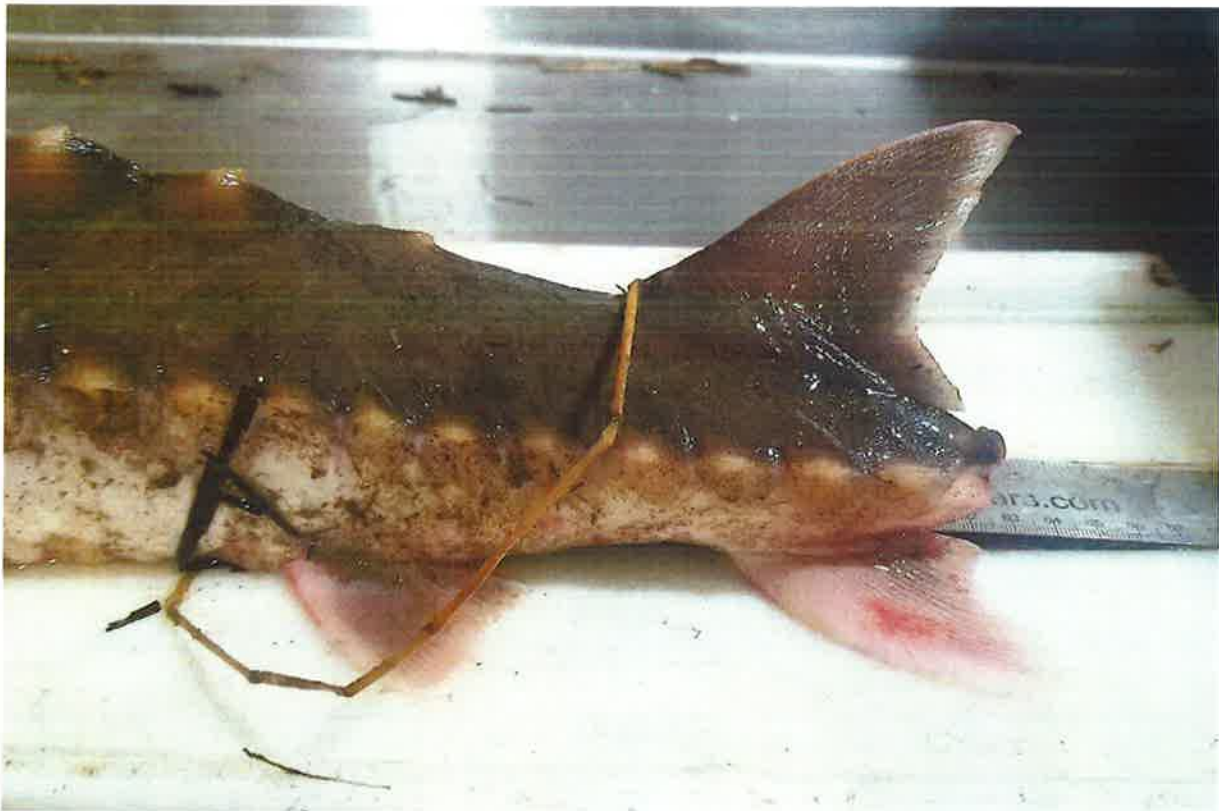
Submit completed forms (within 24 hours of observation of fish): by e-mail to IncidentalTake@noaa.gov or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

Data Access Policy: Upon written request, information submitted to National Marine Fisheries Service (NOAA Fisheries) on this form will be released to the requestor provided that the requestor credit the collector of the information and NOAA Fisheries. NOAA Fisheries will notify the collector that these data have been requested and the intent of their use.

Photographs

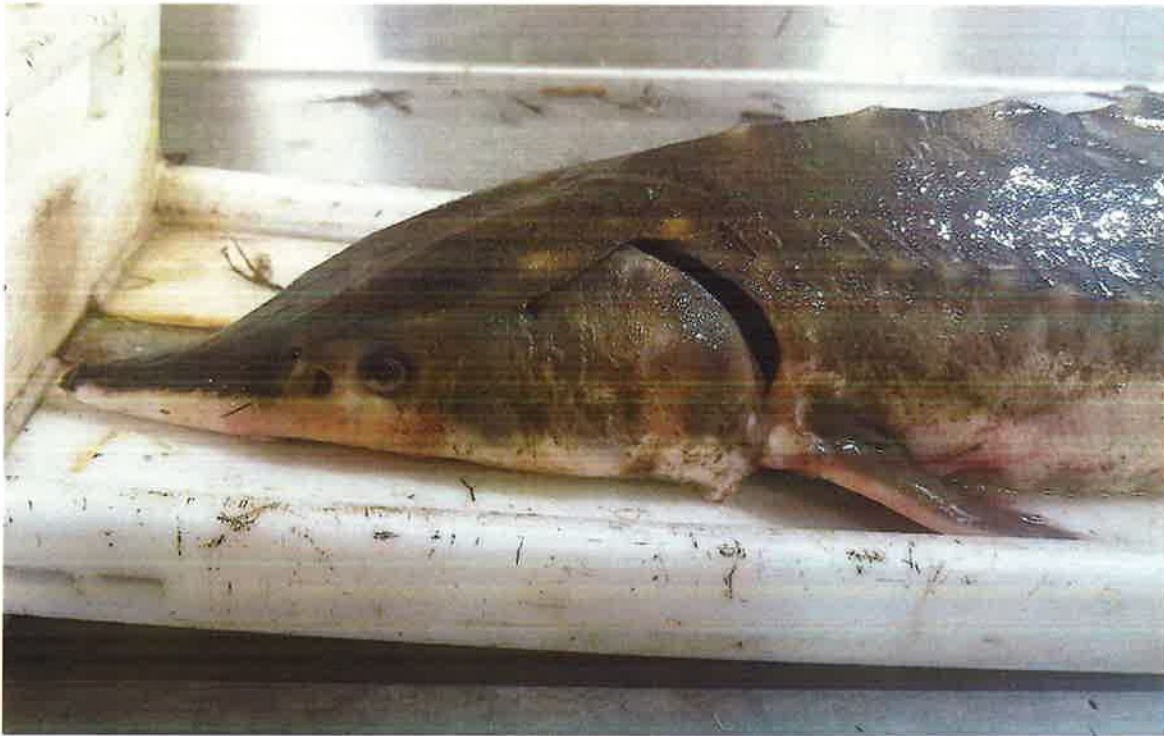


A dorsal view, showing the size and condition of a live, but damaged Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 10:30AM on 03/29/2022 from the Salem Circulating Water Intake trash collection basket by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (03/29/2022).

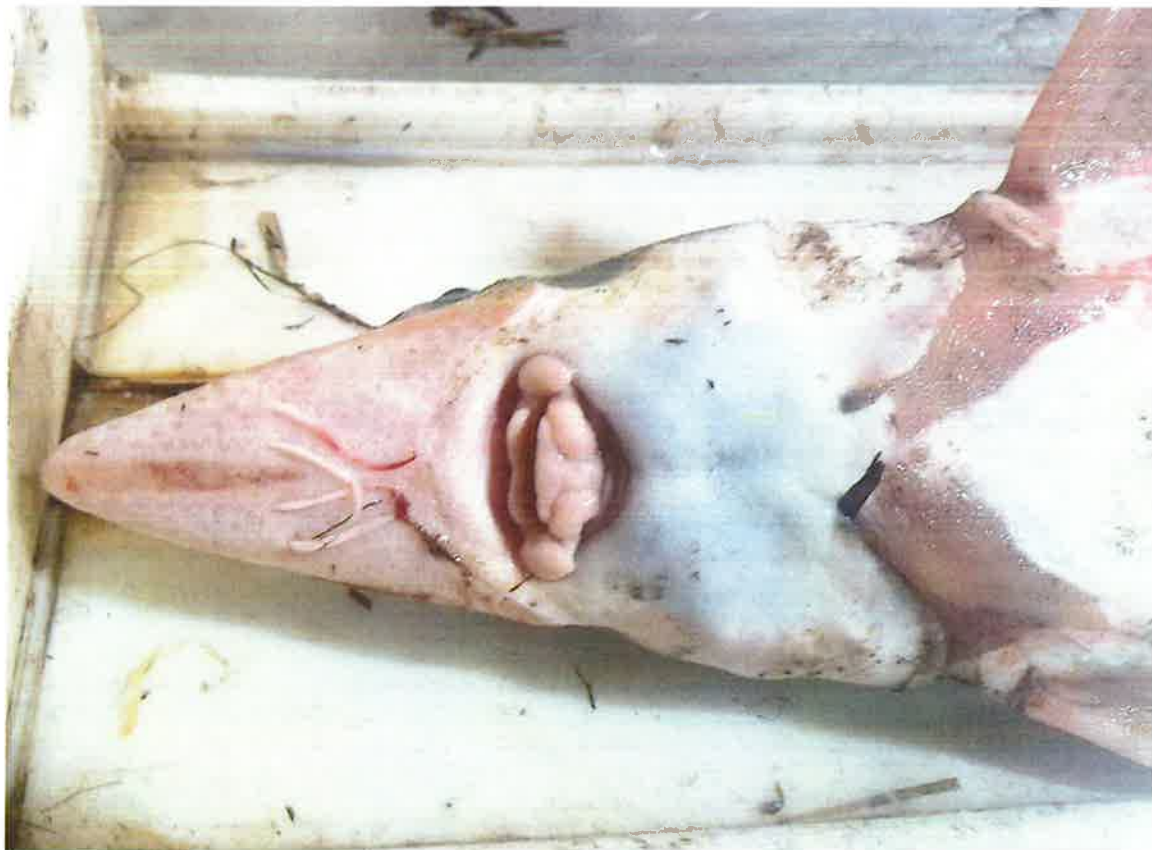


A dorsolateral view of the specimen, showing the extent of damage in the form of a severed caudal fin, beginning at the caudal peduncle, immediately posterior to the dorsal and anal fin. The injury appears to have occurred prior to the incidental collection, as healthy scar tissue has formed over the damaged area (03/29/2022).

Photographs



A dorsolateral view of the left side of the head, showing the characteristic elongated rostrum (03/29/2022).



A ventral view of the head, showing the characteristic small mouth and elongated rostrum (03/29/2022).