

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Wednesday, May 17, 2023 8:48 AM
To: nmfs.gar.incidental-take@noaa.gov; EndangeredSpecies Resource
Cc: Corbett, Heather [DEP]; Fehring, Shana [DEP]; Neilan, Brian [DEP]
Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Sturgeon 5/16/2023
Attachments: Sturgeon Incidental Take Report for 05-16-2023.pdf

Attached are the Incidental Take Report and Data Collection Forms for an Atlantic sturgeon collected on 5/16/2023 from the Salem Generating Station cooling water intake trash bars. The injured specimen was released back to the Delaware River following examination. This incidental take is authorized under Biological Opinion GAR-2020-02842.

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
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Subject: [External_Sender] Salem Generating Station - Incidental Take Report Sturgeon
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Sent Date: 5/17/2023 8:47:33 AM
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From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"Corbett, Heather [DEP]" <Heather.Corbett@dep.nj.gov>
Tracking Status: None
"Fehring, Shana [DEP]" <Shana.Fehring@dep.nj.gov>
Tracking Status: None
"Neilan, Brian [DEP]" <Brian.Neilan@dep.nj.gov>
Tracking Status: None
"nmfs.gar.incidental-take@noaa.gov" <nmfs.gar.incidental-take@noaa.gov>
Tracking Status: None
"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>
Tracking Status: None

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Files	Size	Date & Time
MESSAGE	1202	5/17/2023 8:47:51 AM
Sturgeon Incidental Take Report for 05-16-2023.pdf		501795

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 12A

Date animal observed: 05/16/2023 Time animal observed: 09:00 AM

Date animal collected: 05/16/2023 Time animal collected: 09:05 AM

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

Air temp. – 18.5 °C; Sal. – 5.0 ppt; Wind –SW; sky – partly cloudy; Wave – slight; tide- E1 (93.5 ft)

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

Date and time of last inspection of screen: 05/16/2023; at 03:06 AM

Water temperature (°C) at site and time of observation: 19.0 °C

Number of pumps operating at time of observation: Unit 1: 6 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.0% /Unit 2: 99.6%

PIT #

Microchip ID Systems™



933000220017829

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 Douglas.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 05 Day 16 Year 2023

DATE EXAMINED:

Month 05 Day 16 Year 2023

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 12A, 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 72.1 cm
Total length 83.3 cm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) 3.8 cm
Interorbital width (see reverse side) 6.4 cm
Weight ☒ actual ☐ estimate 2.3 kg

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

No tag found

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 exhibited severe damage in the form of two large lacerations. After processing, 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)

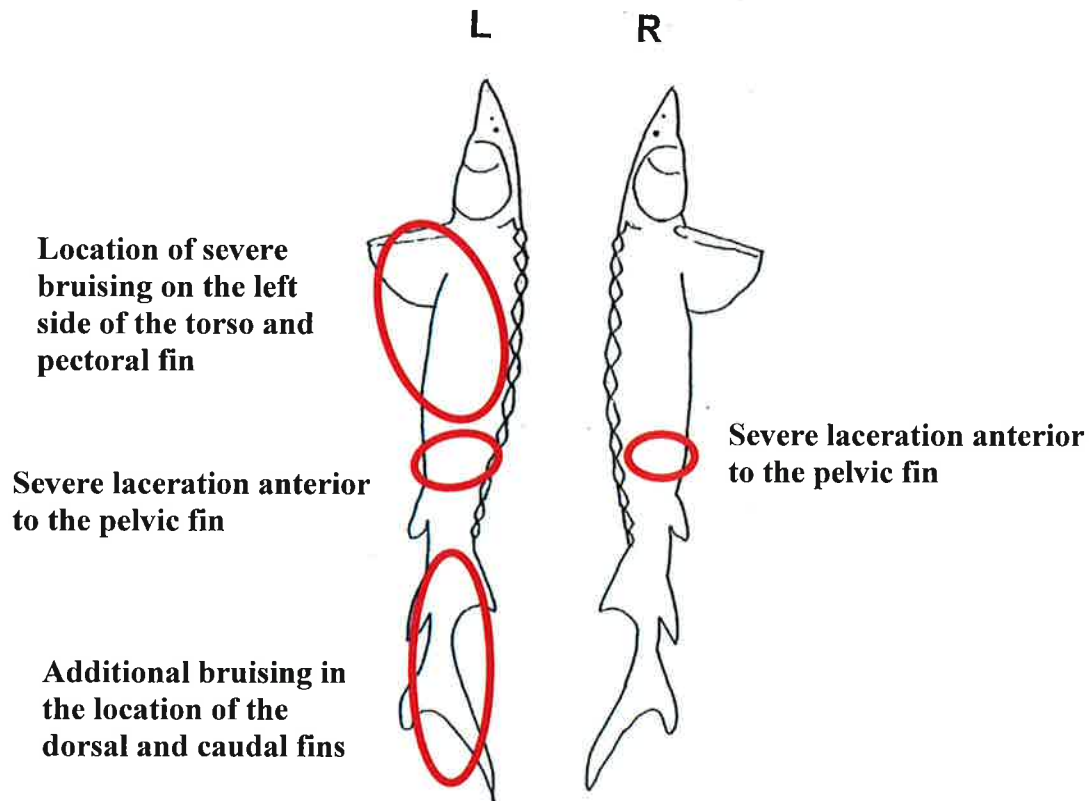
Pelvic fin clip

stored in non-denatured ethanol and refrigerated.

Held at the office of ECSI for aggregated shipment to designated laboratory.

Comments: A damaged, Atlantic sturgeon was retrieved alive from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 05/16/23, at 09:05AM. After positive identification was made by Environmental Consulting Services personnel, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000220017829. 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 09:20AM.

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



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 at the time of collection, but exhibited severe damage in the form of bruising on the left side of the torso, as well as two large corresponding lacerations, one on the left and one on the right side of the torso, anterior to the pelvic fins (refer to diagram above). Specimen received a PIT (#933000220017829), implanted below the dorsal fin on the left side**

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 severely damaged Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 09:05AM on 05/16/2023 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (05/16/2023).



A left, dorsolateral view, showing the condition of the specimen at the time of collection and observation. A large laceration was observed on the torso, between the pectoral fins and the dorsal fin. A second laceration, of similar size, was also observed on the right side of the specimen, in the same location on the torso. The specimen also exhibited severe bruising on a large portion of the left side of the torso (05/16/2023).

Photographs



A close-up of the deep laceration on the left side of the torso (05/16/2023) .

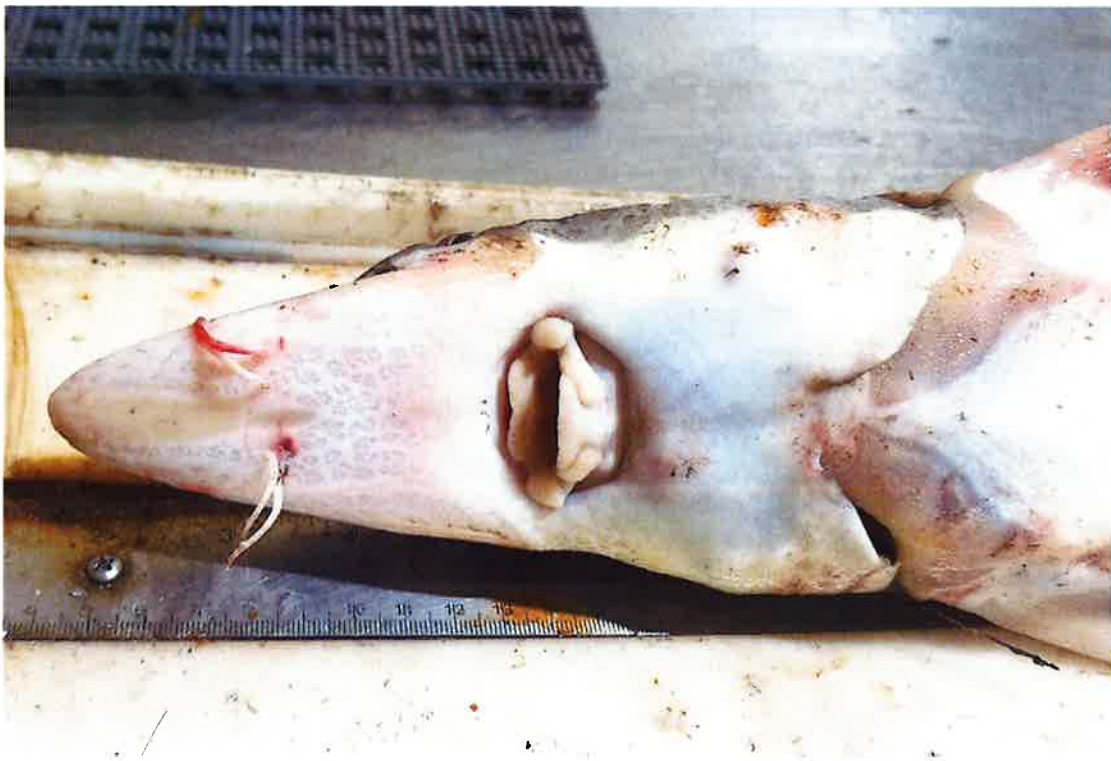


A right, dorsolateral view showing a second laceration located anterior to the pelvic fin, and corresponding with the laceration on the left side of the torso (05/16/2023).

Photographs



A dorsal view of the head, showing the characteristic elongated rostrum. Severe bruising is evident on the torso, posterior to the head (05/16/2023).



A ventral view of the head, showing the characteristic small mouth (05/16/2023).