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: Kenny Kiess/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; CWI 21B

Date animal observed: 04/11/2018 Time animal observed: 08:58am
Date animal collected: 04/11/2018 Time animal collected: 09:08am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 7.0°C; sal. - 9.0 ppt; wind – NE; sky – partly cloudy; wave – calm; tide – Ebb 1 (93.5ft)

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 4/11/18 at 02:42am
Water temperature (°C) at site and time of observation: 9.0 °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: 99.7% /Unit 2: 99.8 %
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.9% /Unit 2: 100%

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 dpotts@ecsi-del.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 04 Day 11 Year 2018
DATE EXAMINED:
Month 04 Day 11 Year 2018

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) intake trash racks, intake bay 21B, 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	76.3 cm
Total length	83.4 cm
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	3.2 cm
Interorbital width (see reverse side)	6.0 cm
Weight ☒ actual ☐ estimate	3.2 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 TAGS 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 severely damaged, but alive at the time of collection. After processing and a period of holding to reduce stress, it was released back to the River

Carcass Necropsied?
☐ Yes ☒ No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No

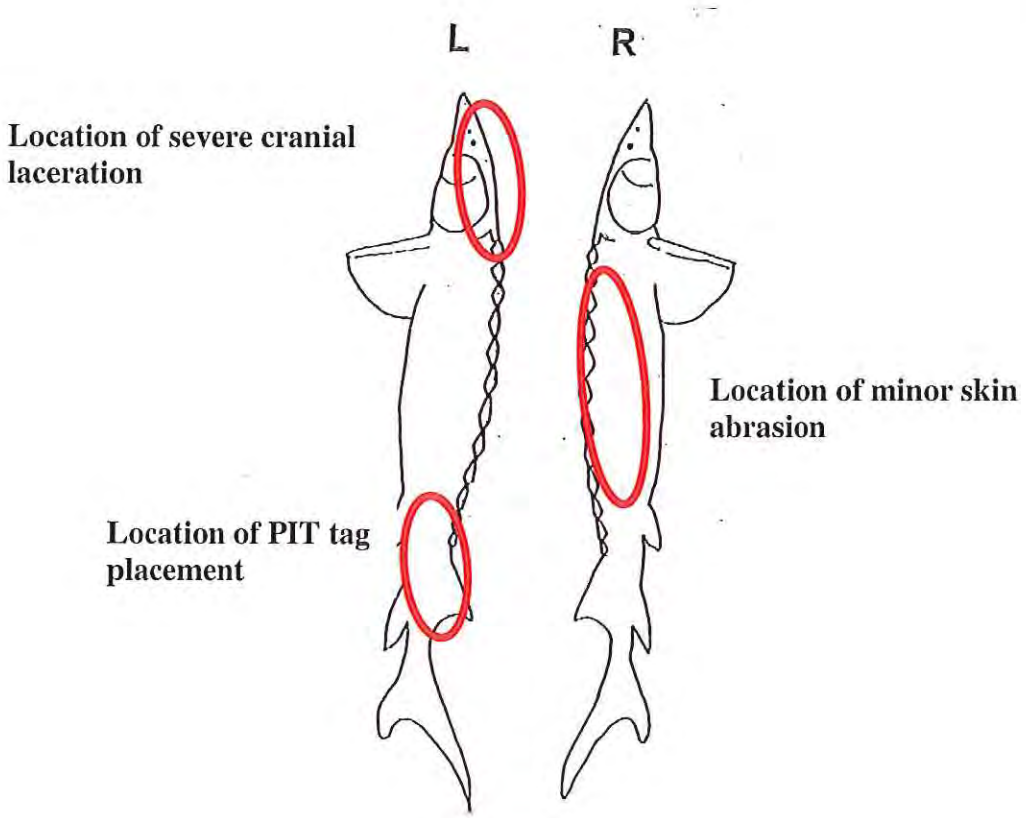
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? ☒ Yes ☐ No

Sample	How Preserved	Disposition (person, affiliation, use)
Pelvic fin clip	stored in non-denatured ethanol and then refrigerated.	Held at the Office of ECSI; waiting for further instruction on disposition.

Comments: A live, but severely damnaged Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/11/18, at 09:08 am. Positive identification was made by Environmental Consulting Services personnel at 09:10am The specimen was measured, photograhed, 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 #965000000361039. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River at 09:40am. The fin clip sample has been stored in refrigeration at the ECSI main office, waiting further instruction on disposition. PSEG Nuclear Environmental Affairs personnel, after being contacted in regards to the incidental take, contacted the NMFS and the NJDEP at 0923am and 09:26am respectively.

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

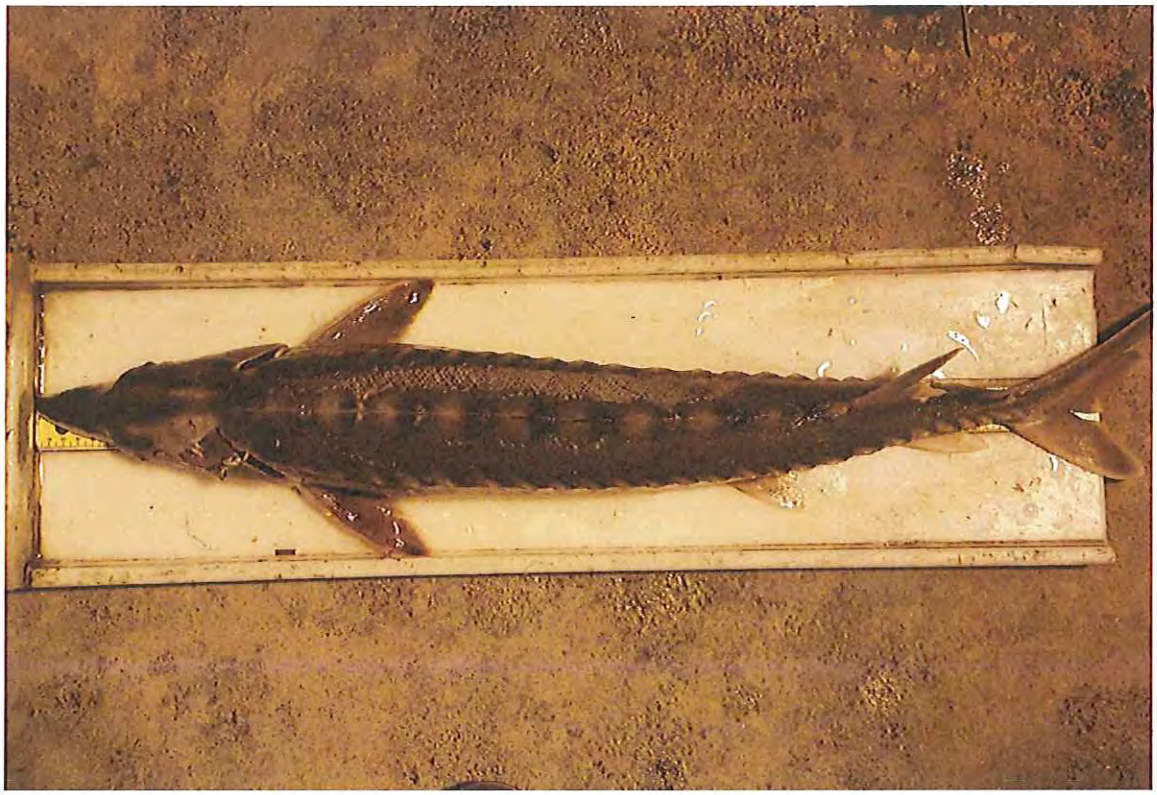


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was alive at the time of collection, however there was evidence of minor skin abrasions on the right dorsal portion of the body, as well as a severe cranial laceration to left side of the head. Both the abrasions and the cranial laceration appear to be recent. After a period of holding in ambient river water to help reduce the effects of stress, the specimen was returned to the Delaware River at approximately 09:40am. Specimen was PIT tagged prior to its release (refer to illustration regarding tag location and location of injuries)**

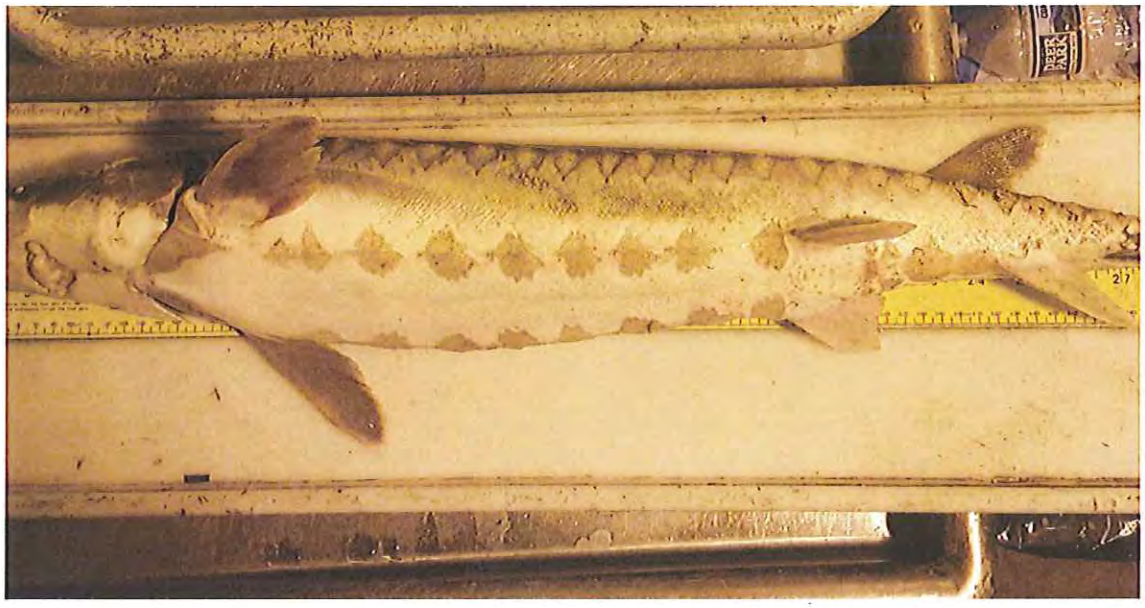
Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@noaa.gov or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

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

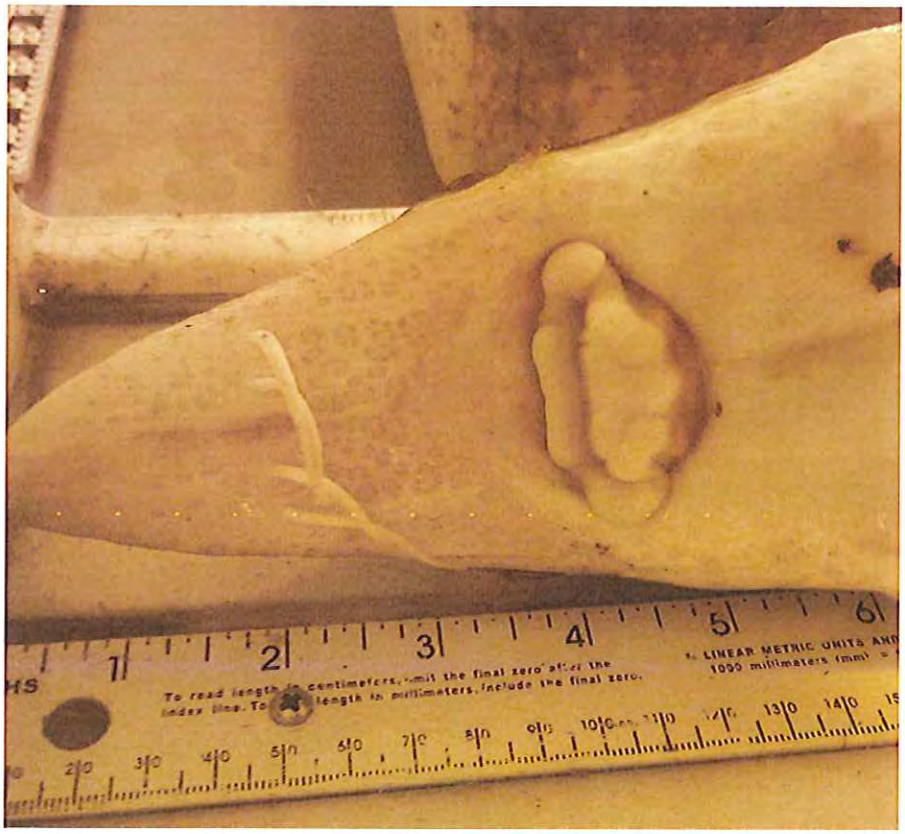


Dorsal view showing the size and condition of the live, but damaged Atlantic Sturgeon (Acipenser oxyrinchus), retrieved at 09:08am on 04/11/18 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB. The specimen was severely damaged and exhibited evidence of a large laceration to the head (04/11/2018).

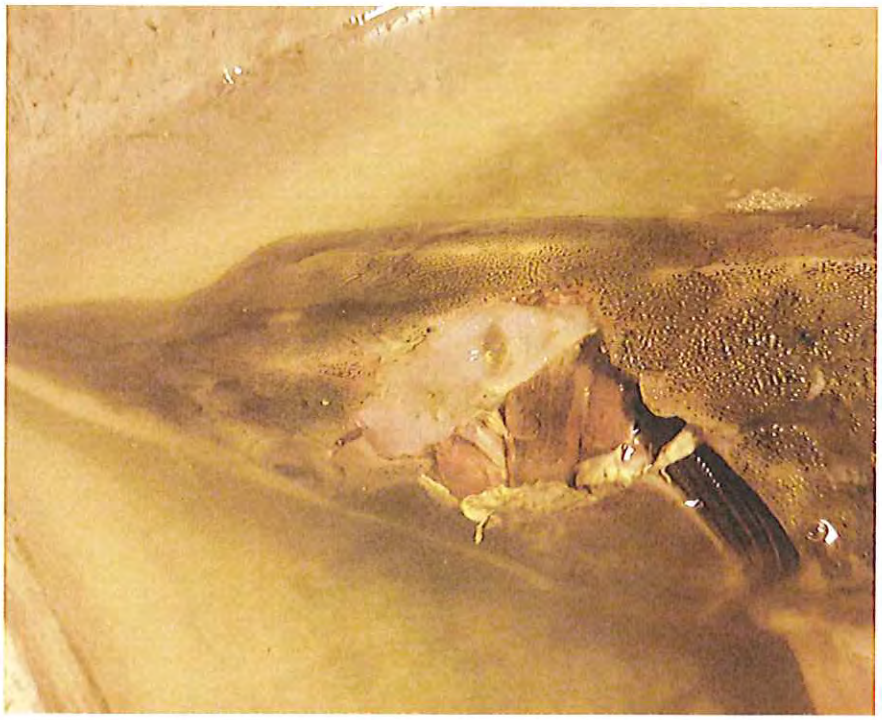


A ventral view of the specimen. There was no indication of internal or external tags, so PIT tagging and pelvic fin clip procedures were implemented. The specimen has been identified with PIT tag #965000000361049. The fin clip has been placed in refrigeration at the ECSI office, waiting further instruction on disposition (04/11/2018).

Photographs



A dorso-lateral view of the specimen showing the characteristic elongated rostrum and small mouth (04/11/2018).



A ventral view of head shows the severe damage observed to the left portion of the scull. The damage is recent and may be related to the initial collection (04/11/2018).