

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Friday, December 13, 2019 8:33 PM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] Salem Generating Station - Incidental Take Reports - Sturgeon 12/13/2019
Attachments: Sturgeon Incidental Take Report for 12-13-19 Specimen #1 Rev 1.pdf; Sturgeon Incidental Take Report for 12-13-19 Specimen #2 Rev 1.pdf; Sturgeon Incidental Take Report for 12-13-19 Specimen #3.pdf; Sturgeon Incidental Take Report for 12-13-19 Specimen #4.pdf

Attached are the Incidental Take Reports and Data Collection Forms for four deceased Atlantic sturgeon collected on 12/13/2019 from the Salem Generating Station during routine raking of the cooling water intake trash bars. The specimens and fin clips are being held for study pending direction from NOAA/NMFS. 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
856-339-1487

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Hearing Identifier: NRR_DRMA
Email Number: 350

Mail Envelope Properties (c849e8ae025c4246af84f3dc23a61ff1)

Subject: [External_Sender] Salem Generating Station - Incidental Take Reports -
Sturgeon 12/13/2019
Sent Date: 12/13/2019 8:33:20 PM
Received Date: 12/13/2019 8:33:57 PM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"jeanette.bowers@dep.nj.gov" <jeanette.bowers@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	1240	12/13/2019 8:33:57 PM
Sturgeon Incidental Take Report for 12-13-19 Specimen #1 Rev 1.pdf		816122
Sturgeon Incidental Take Report for 12-13-19 Specimen #2 Rev 1.pdf		348609
Sturgeon Incidental Take Report for 12-13-19 Specimen #3.pdf		773196
Sturgeon Incidental Take Report for 12-13-19 Specimen #4.pdf		332775

Options

Priority: Normal

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

specimen # 1

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 1, intake 13A

Date animal observed: 12/13/2019 Time animal observed: 09:45 am

Date animal collected: 12/13/2019 Time animal collected: 10:00 am

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

Air temp. - 7.8 °C; Sal. - 7.0 ppt; Wind - ENE; sky - overcast; wave - slight; tide - Flood 2

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

Date and time of last inspection of screen: 12/12/19; 08:13pm

Water temperature (°C) at site and time of observation: 6.0 °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: 100.1% / Unit 2: 100.1%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.2% / Unit 2: 99.9%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First **Beth** Last **Graham**
 Agency Affiliation **PSEG subcontractor** Email **Beth.Graham@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 12 Day 13 Year 2019
DATE EXAMINED:
 Month 12 Day 13 Year 2019

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 13A, 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	61.0 cm
Total length	71.4 cm
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	3.81 cm
Interorbital width (see reverse side)	5.10 cm
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	1.505 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).

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No

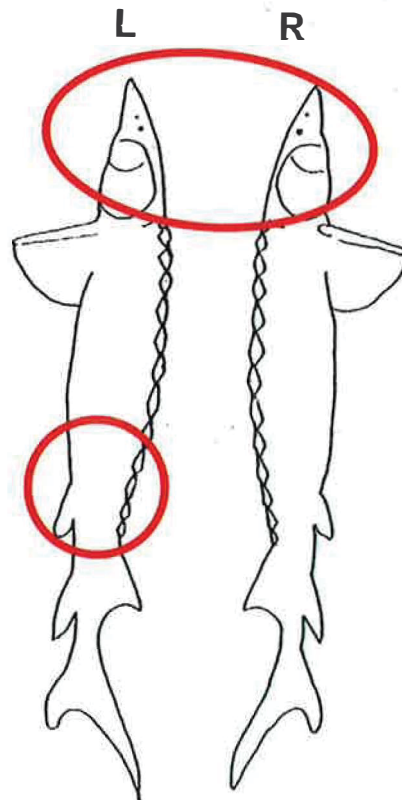
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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: One of two deceased Atlantic sturgeon collected from the Salem Circulating Water Intake Structure (intake 13A) during routine trash rack cleaning on 12/13/19, at 09:45am. Notification of the incidental take to Salem Unit Control was made at 10:05am. Positive identification and processing was conducted by Environmental Consulting Services personnel. During processing, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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



Portions of skin and soft tissue missing, exposing bone and cartilage on top the head and around the gills.

Location of possible bruising ventrally along the left side of the torso

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 deceased at the time of collection and was found to be in a state of moderate decomposition. The specimen was complete, but did reveal exposed bone and cartilage in the area of the head. Additionally, a large bruise was observed on the lower left side of the torso, near the vent (refer to diagram above).**

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



Dorsolateral view showing the size and condition of the deceased and moderately decomposed, Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 09:45am on 12/13/19 from 13A circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (12/13/2019).



A dorsal view of the specimen, showing overall condition at the time of collection. Some decomposition has occurred, most notably around the head, which revealed some exposed bone and cartilage (12/13/2019).

Photographs



A ventral view of the specimen, showing evidence of slight bruising ventrally along the right side of the torso (12/13/2019).



A left dorsolateral view of the head, showing a close-up of the effects of decomposition, indicated by discolored skin, missing gills, and areas of exposed bone and cartilage. The mouth of the specimen is in shown at full extension (12/13/2019).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 1, intake 13A

Date animal observed: 12/13/2019 Time animal observed: 09:45 am

Date animal collected: 12/13/2019 Time animal collected: 10:00 am

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

Air temp. - 7.8 °C; Sal. - 7.0 ppt; Wind - ENE; sky - overcast; wave - slight; tide - Flood 2

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

Date and time of last inspection of screen: 12/12/19; 08:13am

Water temperature (°C) at site and time of observation: 6.0 °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: 100.1% / Unit 2: 100.1%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.2% / Unit 2: 99.9%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
 Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 13 Year 2019
 DATE EXAMINED:
 Month 12 Day 13 Year 2019

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 13A, 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:

Fork length 57.8 cm
 Total length 67.0 cm
 Length actual estimate
 Mouth width (inside lips, see reverse side) 3.30 cm
 Interorbital width (see reverse side) 5.44 cm
 Weight actual estimate 1.214 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).

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No

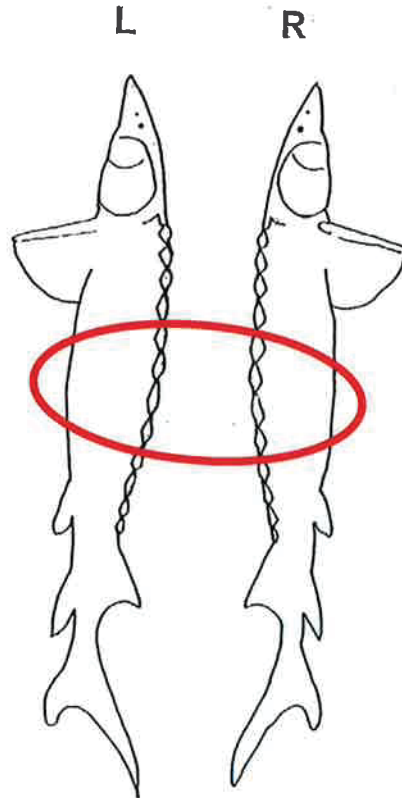
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

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: The second of two deceased Atlantic sturgeon collected from the Salem Circulating Water Intake Structure (13A intake) during routine trash rack cleaning on 12/13/19, at 09:45am. Notification of the incidental take to Salem Unit Control was made at 10:05am. Positive identification and processing was conducted by Environmental Consulting Services personnel. During processing, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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



**Location of large laceration,
centrally located along at mid
torso.**

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 deceased at the time of collection but was observed to have a fresh wound, as indicated by the existence of blood. The specimen was complete, but a large laceration was located mid torso (refer to diagram above).**

Submit completed forms (within 24 hours of observation of fish): by e-mail to [Incidental Take@noaa.gov](mailto: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



Dorsolateral view showing the size and condition of the recently deceased Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 09:45am on 12/13/19 from 13A circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (12/13/2019).



A dorsal view of the specimen, showing overall condition at the time of collection. A large laceration is shown, mid torso, which has severed the specimen nearly in half, exposing internal organs, muscle, and tissue (12/13/2019).

Photographs



A close-up view of the torso, showing detail of the large laceration (12/13/2019).



A left dorsolateral view of the head, showing a close-up of the characteristic elongated rostrum and small mouth (12/13/2019).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 2, intake 21A

Date animal observed: 12/13/2019 Time animal observed: 12:50 pm

Date animal collected: 12/13/2019 Time animal collected: 13:00 pm

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

Air temp. – 8.8 °C; Sal. – 9.0 ppt; Wind – ENE; sky – light rain; wave – slight; tide – Ebb 1

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

Date and time of last inspection of screen: 12/12/19; 08:13pm

Water temperature (°C) at site and time of observation: 6.5 °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: 100.1% / Unit 2: 100.1%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.2% / Unit 2: 99.9%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 13 Year 2019
DATE EXAMINED:
Month 12 Day 13 Year 2019

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 21A, 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:

Fork length 62.0 cm
Total length 71.8 cm
Length actual estimate
Mouth width (inside lips, see reverse side) 3.30 cm
Interorbital width (see reverse side) 4.44 cm
Weight actual estimate NM

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. _____)

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

Pelvic fin clip

How preserved

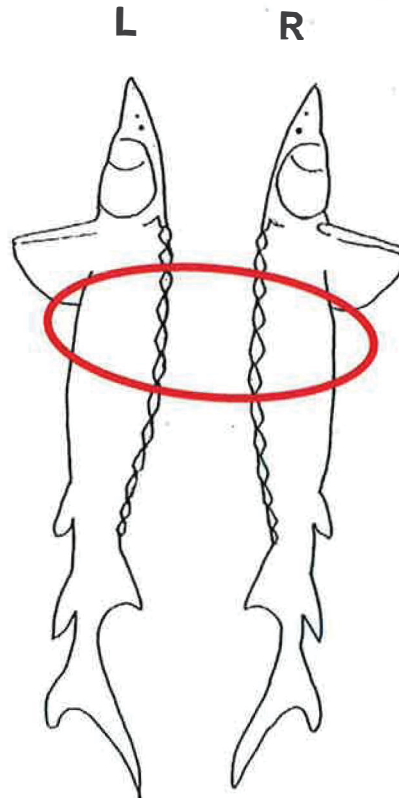
stored in non-denatured ethanol and refrigerated.

Disposition (person, affiliation, use)

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

Comments: Deceased Atlantic sturgeon collected from the Salem Circulating Water Intake Structure (intake 21A) during routine trash rack cleaning on 12/13/19, at 13:00pm. Notification of the incidental take to Salem Unit Control was made shortly after. Positive identification and processing was conducted by Environmental Consulting Services personnel. During processing, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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



Location of large laceration, located on the torso, immediately posterior to the pectoral fins.

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 deceased at the time of collection but was observed to have a fresh wound, as indicated by the existence of blood. The specimen was complete, but a large laceration was located just posterior to the pectoral fins (refer to diagram above).**

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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

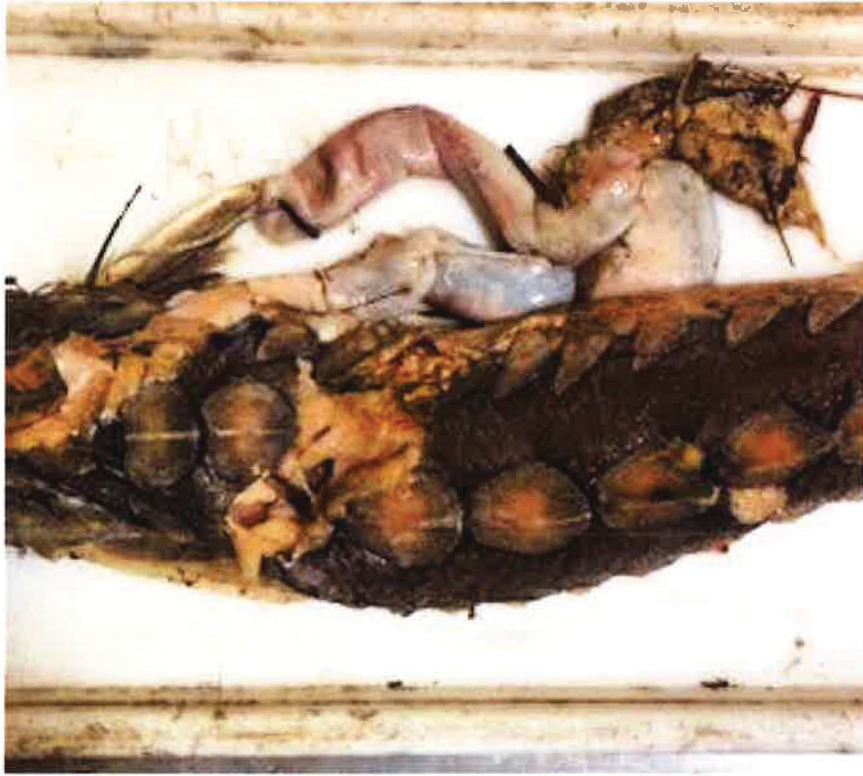


Dorsolateral view showing the size and condition of the recently deceased, Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 13:00pm on 12/13/19 from 21A circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (12/13/2019).



A dorsal view of the specimen, showing overall condition at the time of collection. A large laceration is shown, on the torso just behind the head, which has severed the specimen nearly in half, exposing internal organs, muscle, and tissue (12/13/2019).

Photographs



A close-up view of the specimen, showing the location of laceration and related damage to the torso (12/13/2019).



Dorsal view of the head showing the characteristic elongated rostrum (12/13/2019).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 2, intake 21B

Date animal observed: 12/13/2019 Time animal observed: 12:50pm

Date animal collected: 12/13/2019 Time animal collected: 13:06 am

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

Air temp. – 8.8 °C; Sal. – 9.0 ppt; Wind – ENE; sky – light rain; wave – slight; tide – Ebb 1

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

Date and time of last inspection of screen: 12/12/19; 08:13am

Water temperature (°C) at site and time of observation: 6.0 °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: 100.1% /Unit 2: 100.1%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.2% /Unit 2: 99.9%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
 Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 13 Year 2019
 DATE EXAMINED:
 Month 12 Day 13 Year 2019

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	<u>74.0 cm</u>
Total length	<u>86.3 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>4.06 cm</u>
Interorbital width (see reverse side)	<u>5.84 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>1.96 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

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)

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)

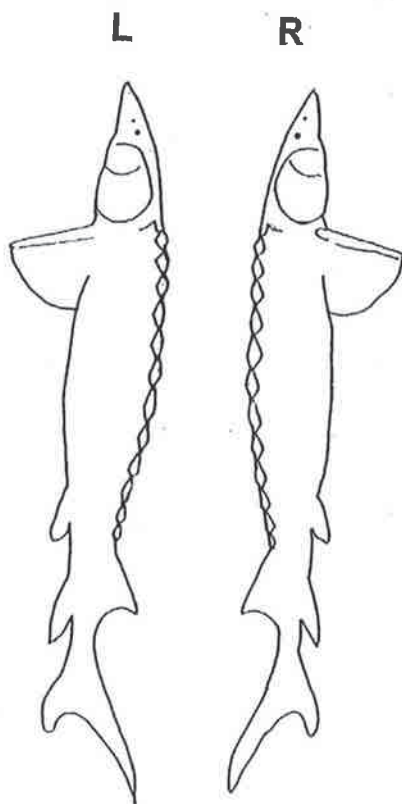
Pelvic fin clip

stored in non-denatured ethanol and refrigerated.

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

Comments: Deceased Atlantic sturgeon collected from the Salem Circulating Water Intake Structure (intake 21B) during routine trash rack cleaning on 12/13/19, at 13:06pm. Notification of the incidental take to Salem Unit Control was made shortly after. Positive identification and processing was conducted by Environmental Consulting Services personnel. During processing, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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 deceased at the time of collection, but was found to be in good condition with no apparent wounds or damage.**

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



Dorsal view showing the size and condition of the recently deceased, Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 13:06pm on 12/13/19 from 21B circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (12/13/2019).



A dorsolateral view of the specimen, showing overall condition at the time of collection. Except for some minor abrasions, the specimen was fully intact and in good condition (12/13/2019).

Photographs



Dorsal view showing a close-up of the head and rostrum. No damage was observed (12/13/2019).



A dorsolateral view of the head, showing the characteristic elongated rostrum and small mouth (12/13/2019).