

APPENDIX II Incident Report Sturgeon Take – Indian Point

Photographs should be taken and the following information should be collected from all sturgeon (alive and dead) found in association with the Indian Point intakes. Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt.

Observer's full name: Christopher Burnett (Normandeau: Processed fish)

Reporter's full name: Charles C. Swerny (Normandeau: Recorded fish)

Species Identification: Atlantic Sturgeon

Site of Impingement (Unit 2 or 3, CWS or DWS, Bay #, etc.): Unit 2, debris in front of bay 21.

① Date animal observed: 2-25-15 Time animal observed: 1500 EST

② Date animal collected: 2-24-15 Time animal collected: 1600 EST

① Date processed in lab by Normandeau. ② Date reported and collected by dive contractor.

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

Clear, 15°F, Calm winds, ebb tide

Date and time of last inspection of intakes: Trash rack debris removal between Feb. 9 and Feb. 24, 2015

Water temperature (°C) at site and time of observation: 1.7

Number of pumps operating at time of observation: 6

Average percent of power generating capacity achieved per unit at time of observation: 100%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: 100%

Figure 3-3. Incident report form for incidental take of Atlantic Sturgeon or Shortnose sturgeon by impingement at the IPEC cooling water intakes (Appendix II of the Opinion).

Fish ID. 90-0001-01

Sturgeon Information:

Species Atlantic Sturgeon

Fork length (or total length) 1200 mm Weight 6150 grams

Condition of specimen/description of animal

Moderately deteriorated with multiple scutes
missing.

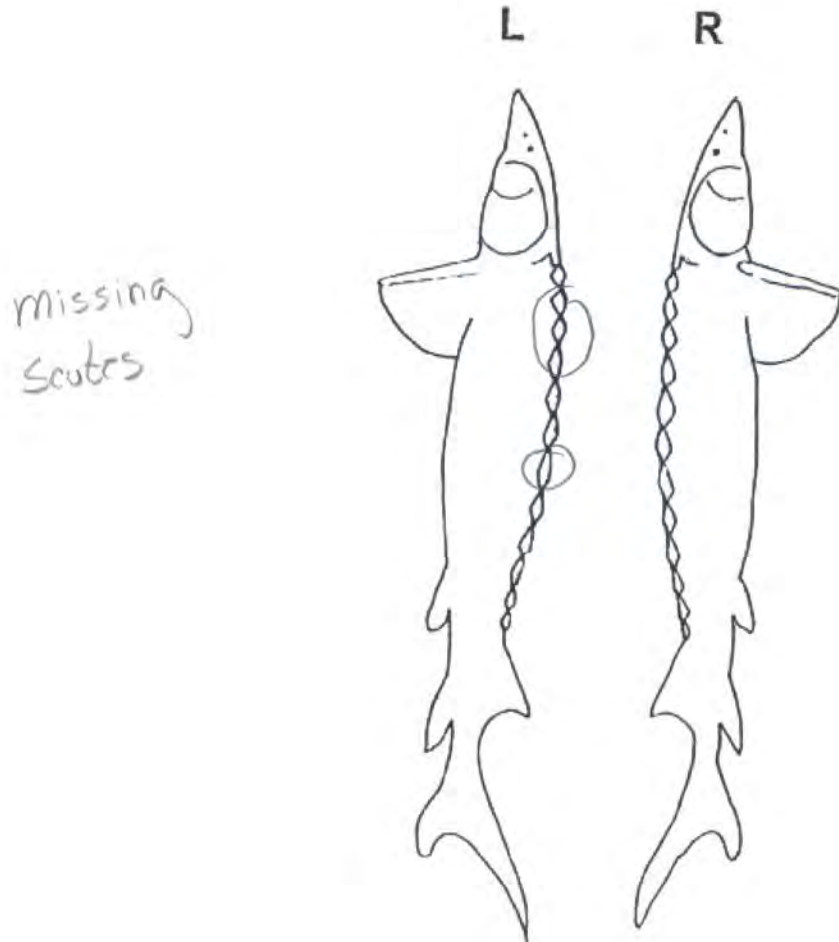
Fish Decomposed: NO SLIGHTLY MODERATELY SEVERELY

Fish tagged: YES / NO Please record all tag numbers. Tag # _____

Photograph attached: YES / NO 9 photos uploaded to project folder
(please label species, date, geographic site and vessel name on back of photograph)

(Figure 3-3 continued, page 2 of 3).

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



Description of fish condition: moderately deteriorated

Figure 3-3 (continued, page 3 of 3).

APPENDIX III

STURGEON SALVAGE FORM

For use in documenting dead sturgeon in the wild under ESA permit no. 1614 (version 05-16-2012)

INVESTIGATOR'S CONTACT INFORMATION Name: First <u>Charles</u> Last <u>Sweeney</u> Agency Affiliation <u>NAI</u> Email <u>csweeney@normandeau.com</u> Address <u>100 Beach Road</u> <u>West Haverstraw, NY 10993</u> Area code/Phone number <u>845-947-0390</u>		UNIQUE IDENTIFIER (Assigned by NMFS) DATE REPORTED: Month <u>02</u> Day <u>26</u> Year 20 <u>13</u> DATE EXAMINED: Month <u>02</u> Day <u>23</u> Year 20 <u>13</u>																		
SPECIES: (check one) <input type="checkbox"/> shortnose sturgeon <input checked="" type="checkbox"/> Atlantic sturgeon <input type="checkbox"/> Unidentified <i>Acipenser</i> species <small>Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.</small>	LOCATION FOUND: <input type="checkbox"/> Offshore (Atlantic or Gulf beach) <input checked="" type="checkbox"/> Inshore (bay, river, sound, inlet, etc) River/Body of Water <u>Hudson River</u> City <u>Peekskill</u> State <u>NY</u> Descriptive location (be specific) <u>East bank of Hudson River @ Km 42</u> Latitude _____ N (Dec. Degrees) Longitude _____ W (Dec. Degrees)																			
CARCASS CONDITION at time examined: (check one) <input type="checkbox"/> 1 = Fresh dead <input checked="" type="checkbox"/> 2 = Moderately decomposed <input type="checkbox"/> 3 = Severely decomposed <input type="checkbox"/> 4 = Dried carcass <input type="checkbox"/> 5 = Skeletal, scutes & cartilage	SEX: <input checked="" type="checkbox"/> Undetermined <input type="checkbox"/> Female <input type="checkbox"/> Male How was sex determined? <input type="checkbox"/> Necropsy <input type="checkbox"/> Eggs/milt present when pressed <input type="checkbox"/> Borescope	MEASUREMENTS: circle unit Fork length <u>111.5</u> (cm) / in Total length <u>120</u> (cm) / in Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate Mouth width (inside lips, see reverse side) <u>4.2</u> (cm) / in Interorbital width (see reverse side) <u>9.3</u> (cm) / in Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate <u>6.15</u> (kg) / lb																		
TAGS PRESENT? Examined for external tags including fin clips? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Scanned for PIT tags? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Tag #</th> <th style="width: 30%;">Tag Type</th> <th style="width: 40%;">Location of tag on carcass</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Tag #	Tag Type	Location of tag on carcass															
Tag #	Tag Type	Location of tag on carcass																		
CARCASS DISPOSITION: (check one or more) <input type="checkbox"/> 1 = Left where found <input type="checkbox"/> 2 = Buried <input type="checkbox"/> 3 = Collected for necropsy/salvage <input checked="" type="checkbox"/> 4 = Frozen for later examination <input type="checkbox"/> 5 = Other (describe) _____	Carcass Necropsied? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Necropsied: _____ Necropsy Lead: _____	PHOTODOCUMENTATION: Photos/video taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disposition of Photos/Video: <u>9 Photos</u>																		
SAMPLES COLLECTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Sample</th> <th style="width: 30%;">How preserved</th> <th style="width: 40%;">Disposition (person, affiliation, use)</th> </tr> </thead> <tbody> <tr> <td><u>DNA</u></td> <td><u>Alcohol</u></td> <td><u>NOAA</u></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Sample	How preserved	Disposition (person, affiliation, use)	<u>DNA</u>	<u>Alcohol</u>	<u>NOAA</u>												
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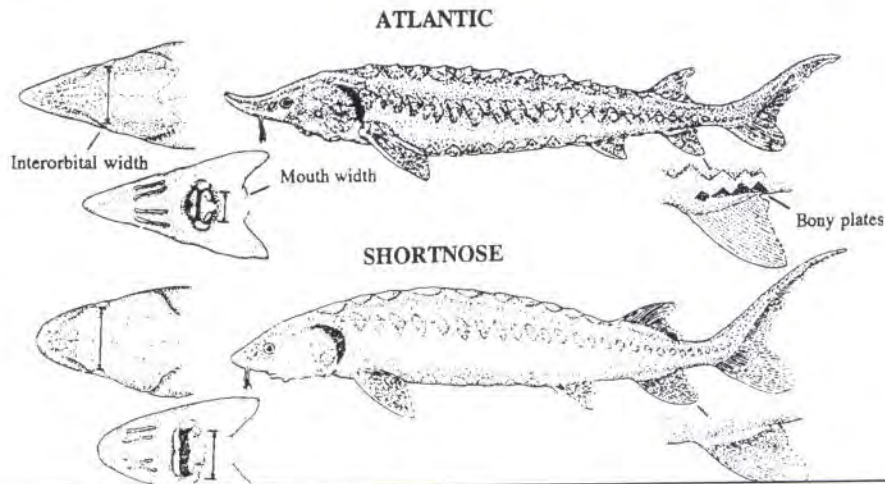
Comments: Fish removed from debris in front of Indian Point Unit 2 trash rack.

Figure 3-4. Sturgeon salvage form (Appendix III of the Opinion).

Distinguishing Characteristics of Atlantic and Shortnose Sturgeon (version 07-20-2009)

Characteristic	Atlantic Sturgeon, <i>Acipenser oxyrinchus</i>	Shortnose Sturgeon, <i>Acipenser brevirostrum</i>
Maximum length	> 9 feet/ 274 cm	4 feet/ 122 cm
Mouth	Football shaped and small. Width inside lips < 55% of bony interorbital width	Wide and oval in shape. Width inside lips > 62% of bony interorbital width
*Pre-anal plates	Paired plates posterior to the rectum & anterior to the anal fin.	1-3 pre-anal plates almost always occurring as median structures (occurring singly)
Plates along the anal fin	Rhombic, bony plates found along the lateral base of the anal fin (see diagram below)	No plates along the base of anal fin
Habitat/Range	Anadromous; spawn in freshwater but primarily lead a marine existence	Freshwater amphidromous; found primarily in fresh water but does make some coastal migrations

* From Vecsei and Peterson, 2004



Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found.
*Moderately deteriorated with multiple scutes missing
 See photos*

Identification characteristics recorded on attached ma data sheet.

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.

Submit completed forms (within 30 days of date of investigation) to: Northeast Region Contacts – Shortnose Sturgeon Recovery Coordinator (Jessica Pruden, Jessica.Pruden@noaa.gov, 978-282-8482) or Atlantic Sturgeon Recovery Coordinator (Lynn Lankshear, Lynn.Lankshear@noaa.gov, 978-282-8473); Southeast Region Contacts- Shortnose Sturgeon Recovery Coordinator (Stephania Bolden, Stephania.Bolden@noaa.gov, 727-824-5312) or Atlantic Sturgeon Recovery Coordinator (Kelly Shotts, Kelly.Shotts@noaa.gov, 727-551-5603).

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(Figure 3-4 continued, page 2 of 2).

Indian Point Sturgeon Project
Sturgeon Data Sheet

CARD TYPE	TASK CODE	SAMPLE	UNIT	LOCATION	BAY	DATE	TIME
M2	90	0001	2	2	21	022515	1500

Taxon	Rel_Rec	Fish ID	Total Length (mm)	Fork Length (mm)	Weight (gm)	Eye Width (mm)	Mouth Width (mm)	Mouth/Eye Ratio			
29	1	1	1200	1115	6150	93	42	45			
Scutes	Lat. Anal	Post-Dorsal	Pre-Anal	A-D	Injury status	Injury	Injury loc	Tissue Photo	Sex	Carlin-Ritchie Tag Number	Floy Dart Tag Number
	2	2	2	6	2	17	4	19			
PIT Tag Number				Acoustic Tag Mark CD	Acoustic Tag Code	Comment					
						1					

Comments: *Fish is moderately deteriorated, fish was scanned for all tags. Head width=120mm, Head Depth=125mm. over ->*

Taxon	Rel_Rec	Fish ID	Total Length (mm)	Fork Length (mm)	Weight (gm)	Eye Width (mm)	Mouth Width (mm)	Mouth/Eye Ratio			
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Comments:

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Comments:

Taxon	Rel_Rec	Fish ID	Total Length (mm)	Fork Length (mm)	Weight (gm)	Eye Width (mm)	Mouth Width (mm)	Mouth/Eye Ratio			
Scutes	Lat. Anal	Post-Dorsal	Pre-Anal	A-D	Injury status	Injury	Injury loc	Tissue Photo	Sex	Carlin-Ritchie Tag Number	Floy Dart Tag Number
PIT Tag Number				Acoustic Tag Mark CD	Acoustic Tag Code	Comment					

Comments:

Figure 3-6. Indian Point Project Sturgeon M2 Data Sheet.

Fish ID: 90-0001-01

Fish received on 2-25-15 @ 1050 from trash
rack cleaning contractor.



Sample # 90-001
Tissue - 2g
Fish # 1
Date - 2/25/15
Length - 1100 mm
Cat - 1/2/15



Sample # 90
Taxon - 29
Fish ID - 1
Date - 2-25-15
Length - 1200 mm
● Injury - yes



Sample # 90-001
Taxon - 29
Fish ID - 1
Date - 2-25-15
Length - 1200 mm
● Injury - yes



Sample # 90-001
Taxon - 29
Fish ID - 1
Date - 2-25-15
Length - 1200 mm
● Injury - yes



Sample # 90-26
Taxon - 29
Fish ID - 1
Date - 8-25-15
Length - 1200 mm
Spiny - yes



Sample # 90-001
Taxon - 29
Fish ID - 1
Date - 2-25-15
Length - 1200 mm
● Injury - yes



Sample # 90-001
Taxon - 29
Fish ID - 1
Date - 8-25-15
Length - 1300 mm
Injury - yes

Taxon - 29
Fish ID - 1
Date - 2-25-15
Length - 1200 mm
● Injury - yes





Sample # 90-001
Taxon - 29
Fish ID - 1
Date - 8-25-15
Length - 1800 mm
Injury - Yes