

**New NY Bridge
Sturgeon Acoustic Telemetry
60-day Summary**



TA_FHWA_03126_RPT_ENV

Deployment 16 Summary

Period: August 5, 2015 through October 5, 2015

Regulatory Requirements

Condition 40A of the NYSDEC Permit ID 3-9903-00043/00012 requires that the Project install stationary receivers capable of detecting sonic tags in the vicinity of any Authorized Activities. Data downloads shall occur every 60 days at minimum. “Following each data download, a report shall be submitted with data files, and a summary of fish present and/or moving through the construction zone.” Data files will be transmitted to the NYSDEC by the Thruway Authority when this summary report is submitted.

The Endangered Species Act Section 7 Consultation Biological Opinion dated September 23, 2014, Term and Condition #11 to implement Reasonable and Prudent Measure #6, requires that “Information collected from any stationary receivers must be downloaded at least every 60 days, unless there are weather or safety concerns in which case downloads must be made as soon as practicable after the relief of the weather or safety concern. Preliminary reports containing information on the number of tagged sturgeon detected must be provided to NMFS on a regular basis, but no less frequently than every 60 days. If reports cannot be provided on that frequency, FHWA must provide an explanation to NMFS within the 60 day period and provide the report as soon as possible.”

The following is the summary of detections from August 5, 2015 through October 5, 2015. Figure 1 indicates the status of station downloads during this period.

As of September 16, 2015, all planned dredging and impact pile driving activities for the project were completed. Therefore, following the October 2015 downloads, the receiver array was decommissioned and all of the downloaded stations were removed from the river, as stated in the Sturgeon Acoustic Telemetry Plan, Revision 5. This report summarizes sturgeon-detection data from the final 60-day monitoring period.

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Equipment and Location

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag ^c	Temp Tag	Lotek Receiver
St04	41.06588715	-73.8693723	04-Aug-15	2:04:08 PM	122889	65015	--	--
St05 ^a	41.07031741	-73.8757073	17-Jun-15	2:22:32 PM	123569	26740	--	--
St09	41.06964707	-73.8707050	06-Aug-15	8:56:17 AM	123571	26742	--	--
St11	41.06738651	-73.8730326	04-Aug-15	1:48:53 PM	122373	65008	--	--
St12 ^b	41.07623780	-73.8842371	10-Jun-15	10:20:01 AM	124816	26131	--	--
St14	Station contains sync tag and temperature tag only				--	65019	13339	--
St15 ^b	41.07308222	-73.8825940	16-Jun-15	12:38:25 PM	122883	65018	--	--
St16	41.07370332	-73.8777024	04-Aug-15	9:07:23 AM	122731	65037	--	--
St17	41.07654763	-73.8775867	04-Aug-15	9:52:52 AM	122881	65021	--	--
St18	41.06911448	-73.8830751	07-Aug-15	9:55:43 AM	122880	65022	--	--
St19 ^b	41.06894512	-73.8783478	16-Jun-15	1:15:37 PM	122735	65023	--	--
St21	41.06596925	-73.8852089	10-Jun-15	12:39:52 PM	122877	65004	--	--
St22	41.06495328	-73.8771555	10-Jun-15	11:18:20 AM	122878	65007	--	--
St30	41.06986445	-73.8758404	06-Aug-15	9:14:35 AM	123573	26741	--	--
St31	41.06916731	-73.8709300	06-Aug-15	9:03:08 AM	123567	26739	--	--
St33	41.07516642	-73.8735177	04-Aug-15	9:31:44 AM	122888	65010	--	--
St34	41.07332345	-73.8690144	04-Aug-15	9:11:25 AM	122718	65025	--	--

^aReceiver was missing from Station 05 when retrieved.

^bStations 12, 15, and 19 were not recovered.

^cThe prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

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Numbers of Fish Detected by Species

Species	Number Detected
Atlantic sturgeon	144
Shortnose sturgeon	13
Unconfirmed	98
Total	255

False detections (i.e., detections of transmitter codes for tag IDs not currently in use) are inherent in all telemetry systems. The False Detection Analysis (FDA) tool available in Vemco's Vue software was used to filter false detections from the dataset prior to summarizing detection data for this deployment period. The FDA tool uses a methodology that involves filtering data based on intervals between successive detections, the programmed average transmission rate of the tags, and anticipated maximum residency.

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Atlantic sturgeon

Vemco Tag ID

A69-1303-11153				
A69-1303-11158				
A69-1303-11162				
A69-1303-11165				
A69-1303-11182				
A69-1303-11184				
A69-1303-11185				
A69-1303-11200				
A69-1303-11204				
A69-1303-11207				
A69-1303-11208				
A69-1303-11210				
A69-1303-11212				
A69-1303-11213				
A69-1303-11214				
A69-1303-11216				
A69-1303-11217				
A69-1303-11218				
A69-1303-11219				
A69-1303-11220				
A69-1303-11222				
A69-1303-11224				
A69-1303-11225				
A69-1303-11226				
A69-1303-11231				

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Shortnose sturgeon

Vemco Tag ID

A69-1303-11163
A69-1303-11188
A69-1303-11190
A69-1303-11191
A69-1303-11192
A69-1303-11193
A69-1303-11194
A69-1303-11196
A69-1303-11197
A69-1303-11202
A69-1303-11205
A69-1303-11206
A69-1303-11228

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Species unconfirmed

Vemco Tag ID

[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]
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