

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



**Deployment 10 Summary**

Period: August 22, 2014 through October 28, 2014

**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 April 2, 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 22, 2014 through October 28, 2014.

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**Equipment and Location**

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag <sup>e</sup>	Temp Tag	Lotek Receiver
St01	41.0745752	-73.9099543	21-Aug-14	12:06:39 PM	122371	65006	--	--
St02 <sup>a</sup>	41.0751381	-73.8988418	3-Jul-14	5:44:52 PM	123574	65011	--	--
St03	41.0663958	-73.9109673	21-Aug-14	2:33:36 PM	122373	65008	--	--
St04	41.0666089	-73.8996800	21-Aug-14	3:06:33 PM	122888	65010	--	--
St05	41.0665212	-73.8995928	22-Aug-14	12:15:39 PM	123573	26740	--	--
St06 <sup>a</sup>	41.0747848	-73.8883253	7-May-14	6:37:04 PM	122892	65014	--	265126
St07 <sup>b</sup>	Decommissioned				122887	65012	--	265127
St08 <sup>a</sup>	41.0724296	-73.8733492	22-Aug-14	3:01:12 PM	122890	65013	--	--
St09	41.0698298	-73.8923686	22-Aug-14	12:41:00 PM	123571	26742	--	--
St10 <sup>b</sup>	Decommissioned				122894	65003	--	265121
St11	41.0667767	-73.8734159	22-Aug-14	2:55:21 PM	122889	65015	--	265119
St12	41.0765121	-73.8846951	24-Sep-14	3:29:18 PM	124816	26131	--	--
St13 <sup>a</sup>	41.0759160	-73.8807816	22-Aug-14	10:36:55 AM	122885	65017	--	--
St14 <sup>a</sup>	41.0729011	-73.8853638	10-Mar-14	3:50:17 PM	122886	65019	13339	--
St15	41.0732565	-73.8821233	22-Aug-14	12:26:44 PM	122883	65018	--	--
St16	41.0734119	-73.8790150	25-Aug-14	2:22:21 PM	122879	65020	--	--
St17	41.0690382	-73.8876229	25-Aug-14	12:28:34 PM	122881	65021	--	--
St18 <sup>a</sup>	41.0690659	-73.8837919	22-Aug-14	12:26:45 PM	122880	65022	--	--
St19 <sup>c</sup>	41.0684128	-73.8787716	28-Oct-14	3:24:34 PM	122735	65023	--	--
St20 <sup>a</sup>	41.0661133	-73.8802760	25-Aug-14	12:01:25 PM	123572	65009	13338 <sup>f</sup>	--
St21 <sup>a</sup>	41.0668134	-73.8850517	22-Aug-14	12:26:45 PM	122877	65004	--	--
St22	41.0655986	-73.8771129	17-Jul-14	11:25:32 AM	122878	65007	--	--
St23 <sup>a</sup>	41.0745703	-73.9131982	21-Aug-14	12:38:57 PM	122871	65024	--	--
St24	41.0736804	-73.9050923	21-Aug-14	12:06:38 PM	124817	26744	--	--
St25	41.0689658	-73.9055231	21-Aug-14	2:46:40 PM	122875	65026	--	--
St26 <sup>d</sup>	41.0683299	-73.8961401	5-Nov-14	11:29:09 AM	122718	65025	--	--
St27	41.0756624	-73.9123129	21-Aug-14	1:03:22 PM	123565	26747	--	--
St28	41.0706298	-73.9136809	21-Aug-14	11:33:35 AM	123568	26738	--	--
St29	41.0702580	-73.9092860	21-Aug-14	11:34:12 AM	123566	26746	--	--
St30	41.0703343	-73.9138134	21-Aug-14	11:34:01 AM	123567	26741	--	--
St31	41.0699375	-73.9096412	21-Aug-14	11:34:21 AM	123569	26739	--	--
St32 <sup>b</sup>	Decommissioned				123570	26745	--	--

<sup>a</sup>Stations were not retrieved during the October data download.

<sup>b</sup>Stations 7, 10, and 32 were determined to be unnecessary for sturgeon positioning based on stationary range testing using sync-tag detections and were decommissioned as discussed with DEC.

<sup>c</sup>Receiver was missing from mooring and was replaced during the October download.

<sup>d</sup>Receiver had malfunctioned and was replaced during the October download.

<sup>e</sup>The prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

<sup>f</sup>The temperature tag at Station 20 was lost on October 20, 2013 and has not been replaced.

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**Numbers of Fish Detected by Species**

Species	Number Detected
Atlantic sturgeon	130
Shortnose sturgeon	14
Species unconfirmed	7
Total	151

Fish tagged with Lotek dual-mode tags that were detected on both Vemco and Lotek receivers are counted once.

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	A69-1601-29704	[REDACTED]
A69-1303-11154	[REDACTED]	[REDACTED]
A69-1303-11155	[REDACTED]	[REDACTED]
A69-1303-11157	[REDACTED]	[REDACTED]
A69-1303-11158	[REDACTED]	[REDACTED]
A69-1303-11159	[REDACTED]	[REDACTED]
A69-1303-11161	[REDACTED]	[REDACTED]
A69-1303-11162	[REDACTED]	[REDACTED]
A69-1303-11165	[REDACTED]	[REDACTED]
A69-1303-11182	[REDACTED]	[REDACTED]
A69-1303-11184	[REDACTED]	[REDACTED]
A69-1303-11185	[REDACTED]	[REDACTED]
A69-1303-11200	A69-9001-26394	[REDACTED]
A69-1303-11204	A69-9001-26411	[REDACTED]
A69-1303-11207	A69-9001-26911	[REDACTED]
A69-1303-11209	[REDACTED]	[REDACTED]
A69-1303-11210	[REDACTED]	[REDACTED]
A69-1303-11211	[REDACTED]	[REDACTED]
A69-1303-11212	[REDACTED]	[REDACTED]
A69-1303-11213	[REDACTED]	[REDACTED]
A69-1303-11214	[REDACTED]	[REDACTED]
A69-1303-11216	[REDACTED]	[REDACTED]
A69-1303-11217	[REDACTED]	[REDACTED]
A69-1303-11219	[REDACTED]	[REDACTED]
A69-1303-11220	[REDACTED]	[REDACTED]
A69-1303-11221	[REDACTED]	[REDACTED]
A69-1303-11222	A69-9001-29166	[REDACTED]
A69-1303-11223	A69-9001-29172	[REDACTED] A69-9002-15514
A69-1303-11224	[REDACTED]	[REDACTED]
A69-1303-11225	[REDACTED]	[REDACTED]
A69-1303-11226	[REDACTED]	[REDACTED]
A69-1303-11230	[REDACTED]	[REDACTED]
A69-1303-11231	[REDACTED]	[REDACTED]
A69-1303-48147	[REDACTED]	[REDACTED]

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**Shortnose sturgeon**

**Vemco Tag ID**

A69-1303-10774  
A69-1303-10787  
A69-1303-10794  
A69-1303-11134  
A69-1303-11137  
A69-1303-11139  
A69-1303-11163  
A69-1303-11164  
A69-1303-11191  
A69-1303-11192  
A69-1303-11196  
A69-1303-11197  
A69-1303-11202  
A69-1303-11205

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**Unconfirmed tag IDs**

**Vemco Tag ID**

A69-1303-20442  
A69-1303-20457  
A69-1601-31779  
A69-9001-25353  
A69-9001-25359  
A69-9001-29032  
A69-9001-30464