

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



**Deployment 9 Summary**

Period: July 1, 2014 through August 21, 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 July 1, 2014 through August 21, 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>c</sup>	Temp Tag	Lotek Receiver
St01	41.07455199	-73.90986331	2-Jul-14	5:00:10 PM	122371	65006	--	--
St02	41.07513805	-73.89884178	3-Jul-14	5:44:52 PM	123574	65011	--	--
St03	41.06640561	-73.91092261	2-Jul-14	5:32:07 PM	122373	65008	--	--
St04	41.06652124	-73.89950328	3-Jul-14	3:47:08 PM	122888	65010	--	--
St05	41.07042226	-73.89959279	3-Jul-14	12:13:24 PM	123573	65002	--	--
St06 <sup>a</sup>	41.07478475	-73.88832534	7-May-14	6:37:04 PM	122892	65014	--	265126
St07 <sup>b</sup>	Decommissioned				122887	65012	--	265127
St08	41.07282934	-73.87284229	2-Jul-14	2:14:50 PM	122890	65013	--	--
St09	41.06982982	-73.89236860	3-Jul-14	12:05:53 PM	123571	26742	--	--
St10 <sup>b</sup>	Decommissioned				122894	65003	--	265121
St11	41.06681142	-73.87337026	2-Jul-14	2:42:35 PM	122889	65015	--	265119
St12 <sup>a</sup>	41.07645226	-73.88470016	10-Mar-14	4:18:37 PM	122884	65016	--	--
St13	41.07563824	-73.88068305	17-Jul-14	4:41:13 PM	122885	65017	--	--
St14 <sup>a</sup>	41.07290109	-73.88536384	10-Mar-14	7:50:17 PM	122886	65019	13339	--
St15	41.07347843	-73.88195040	17-Jul-14	5:50:54 PM	122883	65018	--	--
St16	41.07347843	-73.87897390	17-Jul-14	3:52:23 PM	122879	65020	--	--
St17	41.06905178	-73.88755278	11-Jul-14	1:04:34 PM	122881	65021	--	--
St18	41.06947570	-73.88389542	11-Jul-14	2:49:14 PM	122880	65022	--	--
St19	41.06828006	-73.87867492	11-Jul-14	5:57:25 PM	122876	65023	--	--
St20	41.06605081	-73.88040075	11-Jul-14	3:30:34 PM	123572	65005	13338 <sup>d</sup>	--
St21	41.06679332	-73.88489873	11-Jul-14	2:07:44 PM	122877	65004	--	--
St22	41.06559861	-73.87711287	17-Jul-14	3:25:32 PM	122878	65007	--	--
St23	41.07454775	-73.91320769	2-Jul-14	4:44:45 PM	122871	65024	--	--
St24	41.07366267	-73.90505000	2-Jul-14	6:08:48 PM	124817	26744	--	--
St25	41.06897890	-73.90559684	3-Jul-14	3:17:47 PM	122875	65026	--	--
St26	41.06833613	-73.89630927	3-Jul-14	4:00:29 PM	122873	65025	--	--
St27	41.07567235	-73.91236841	2-Jul-14	4:31:40 PM	123565	26747	--	--
St28	41.07062978	-73.91368092	3-Jul-14	10:26:25 PM	123568	26743	--	--
St29	41.07025798	-73.90928602	3-Jul-14	10:59:46 PM	123566	26746	--	--
St30	41.07033430	-73.91381337	3-Jul-14	10:16:41 PM	123567	26741	--	--
St31	41.06993749	-73.90964117	3-Jul-14	10:08:58 PM	123569	26739	--	--
St32 <sup>b</sup>	Decommissioned				123570	26745	--	--

<sup>a</sup>Stations were not retrieved during the August 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>The prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002."

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

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**Numbers of Fish Detected by Species**

Species	Number Detected
Atlantic sturgeon	92
Shortnose sturgeon	25
Species unconfirmed	29
Total	146

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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**Shortnose sturgeon**

**Vemco Tag ID**

A69-1303-10469  
A69-1303-10773  
A69-1303-10774  
A69-1303-10787  
A69-1303-10793  
A69-1303-10794  
A69-1303-10795  
A69-1303-10810  
A69-1303-10814  
A69-1303-10817  
A69-1303-11137  
A69-1303-11139  
A69-1303-11164  
A69-1303-11166  
A69-1303-11170  
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

