

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



**Deployment 5 Summary**

Period: October 14 to December 1, 2013

**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."

The Endangered Species Act Section 7 Consultation Biological Opinion dated April 10, 2013, Term and Condition #10 to implement Reasonable and Prudent Measure #4, requires that "Information collected from any stationary receivers must be downloaded at least every 60 days. 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 between October 14, 2013 and December 1, 2013. As discussed with NMFS and NYSDEC, the formal submittal of this information was delayed until permissions and tag information were obtained.

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**Equipment and Location**

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag*	Temp Tag	Lotek Receiver
St01	41.07451	-73.91024	14-Oct-13	09:47:12am	122371	65006	--	--
St02	41.07492	-73.89892	14-Oct-13	10:08:29am	122372	65011	--	--
St03	41.06608	-73.91072	14-Oct-13	11:18:44am	122373	65008	--	--
St04	41.06620	-73.89933	14-Oct-13	10:28:01am	122888	65010	--	--
St05**	41.07371	-73.89345	7-Aug-13	07:45:36am	122891	65002	--	--
St06	41.07454	-73.88843	16-Oct-13	12:55:08pm	122892	65014	--	265126
St07	41.07854	-73.87450	16-Oct-13	12:31:45pm	122887	65012	--	265127
St08	41.07283	-73.87310	14-Oct-13	01:40:00pm	122890	65013	--	--
St09	41.06921	-73.89196	14-Oct-13	12:13:11pm	122893	65001	--	--
St10**	41.06469	-73.89198	18-Sep-13	09:38:32am	122894	65003	--	265121
St11	41.06669	-73.87352	16-Oct-13	12:24:51pm	122889	65015	--	265119
St12	41.07631	-73.88451	15-Oct-13	03:00:28pm	122884	65016	--	--
St13	41.07597	-73.88075	15-Oct-13	02:50:19pm	122885	65017	--	--
St14	41.07325	-73.88546	15-Oct-13	01:11:28pm	122886	65019	13339	--
St15	41.07318	-73.88217	15-Oct-13	12:46:05pm	122883	65018	--	--
St16	41.07239	-73.87858	14-Oct-13	04:02:17pm	122879	65020	--	--
St17	41.06898	-73.88761	15-Oct-13	09:37:26am	122881	65021	--	--
St18	41.06892	-73.88330	15-Oct-13	10:05:20am	122880	65022	--	--
St19	41.06870	-73.87787	15-Oct-13	11:30:39am	122876	65023	--	--
St20**	41.06649	-73.88065	10-Aug-13	04:45:18am	122882	65005	13338	--
St21	41.06602	-73.88503	15-Oct-13	12:23:35pm	122877	65004	--	--
St22	41.06566	-73.87691	15-Oct-13	11:58:05am	122878	65007	--	--
St23	41.07363	-73.91348	14-Oct-13	01:16:54pm	122871	65024	--	--
St24	41.07321	-73.90438	14-Oct-13	12:35:23pm	122872	65027	--	--
St25	41.06856	-73.90527	14-Oct-13	10:47:53am	122875	65026	--	--
St26	41.06829	-73.89596	14-Oct-13	11:55:14am	122873	65025	--	--
St27	41.07572	-73.91236	14-Oct-13	03:06:46pm	123565	26747	--	--
St28	41.07065	-73.91371	14-Oct-13	02:10:39pm	123568	26743	--	--
St29	41.07026	-73.90930	14-Oct-13	02:20:39pm	123566	26746	--	--
St30	41.07033	-73.91382	14-Oct-13	02:03:21pm	123567	26741	--	--
St31	41.06994	-73.90966	14-Oct-13	01:50:17pm	123569	26739	--	--
St32	41.07574	-73.89342	14-Oct-13	02:52:00pm	123570	26745	--	--

Vemco Test Tag = A69-1601-28098; Lotek Test Tag = 1

\*The prefix for all sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"  
 \*\*Stations 5,10, and 20 were not able to be recovered with grappling gear during this download effort

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**Numbers of Fish Detected by Species**

Species	Number Detected
Atlantic sturgeon	1
Shortnose sturgeon	9
American shad	--
Blueback herring	--
Species unknown	21
Total	31

Summary does not include Tag IDs with fewer than three detections. 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 that aren't actually present) are inherent in all telemetry systems. Vemco outlines a methodology to filter the data further for Tag IDs that may not be legitimate fish detections (VEMCO Application Note DOC-004691 2012). This methodology involves filtering based on intervals between successive detections, the programmed average transmission rate of the tags, and anticipated maximum residency.

At present, all of the information is not available to accurately conduct this analysis. However, Tag IDs with only a single detection are very likely false detections. Additionally, some Tag IDs with multiple detections can also be false detections. While VEMCO is currently developing software to conduct this filtering for false detections, all data will be further analyzed in the quarterly reports for Tag IDs that have multiple detections but may not be legitimate fish detections.

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**Atlantic sturgeon**

<b><u>Vemco Tag ID</u></b>	<b><u>Lotek Tag ID</u></b>
A69-1303-10471	10472
A69-1303-10472	10476
A69-1303-10476	
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\* Shaded Tag IDs were false detections.

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**Shortnose sturgeon**

<b><u>Vemco Tag ID</u></b>	<b><u>Lotek Tag ID</u></b>
A69-1303-10467	10467
A69-1303-10473	10473
A69-1303-10475	10475
A69-1303-10774	10774
A69-1303-10787	10787
A69-1303-10795	10795
A69-1303-10802	10802
A69-1303-10807	10810
A69-1303-10810	

\* Shaded Tag IDs were false detections.

