Dredging and Pile Driving Monitoring Plan Sturgeon Monitoring During Pile Driving 60-day Report 10/19/2013 – 12/19/2013 for the New NY Bridge Project

December 20, 2013

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1.0 Introduction

This report summarizes the methods and results of daily sturgeon monitoring occurring during permanent pile driving piles for the period of October 19, 2013 to December 18, 2013. Sturgeon monitoring was conducted per the Dredging and Pile Driving Monitoring Plan (Revision 2) for the New NY Bridge Project (the Project). This plan was developed to complye applicable requirements of the New York State Department of Environmental Conservation (NYSDEC) Permit DEC ID 3-9903-00043/00012 issued on March 25, 2013 (NYSDEC Permit) and the April 2013 Endangered Species Act Section 7 Consultation Biological Opinion (BO) issued by the National Marine Fisheries Service (NMFS).

2.0 Monitoring Methods

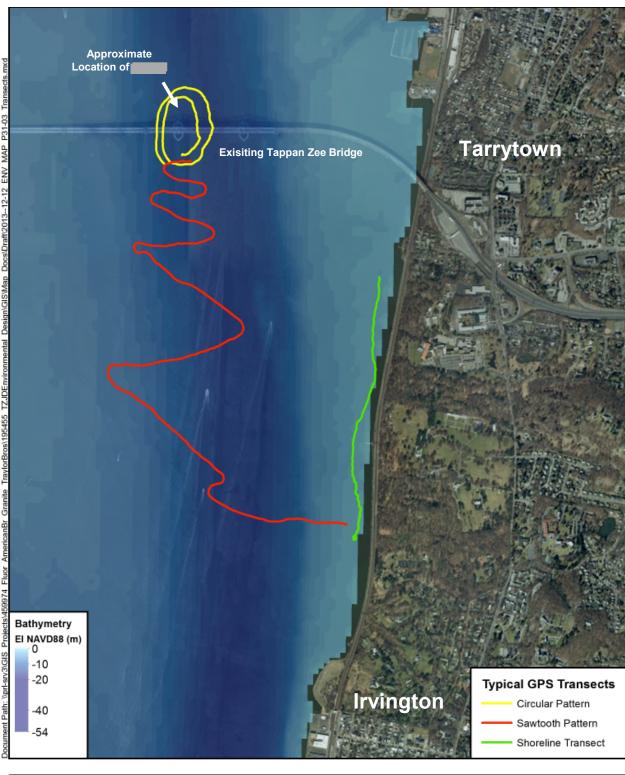
Tappan Zee Constructors, LLC (TZC) conducted pile driving monitoring during impact driving of permanent from a small boat and the pile driving barge. Figure 1 provides an example of typical GPS transects completed by the vessel-based monitoring crew while monitoring impact pile driving operations at the monitors completed two cirlcular patterns, a sawtooth pattern south of the bridge, and monitored the eastern shoreline south of the bridge. Following the shoreline transect the monitoring crew returned to to complete circle transects of the next pile about to be driven.

3.0 Results

A total of piles were impact driven from October 19, 2013 through December 18, 2013. piles were installed at and piles were installed at piles were installed at monitoring activities and results for these pile are summarized in Appendix A. A barge-based monitor was on site for all piles driven during the reporting period. A vessel-based monitor was on site for piles driven during the reporting period. Pile was driven during a small craft advisory on November 8, 2013 between 14:13 and 15:19. If a small craft advisory is in effect for future impact pile driving activities, the vessel-based monitors will be transitioned to a vessel that is capable of operating in high wind conditions (i.e. up to 30 mph). Pile was driven after sunset on November 26, 2013 between 17:10 and 18:10.

During the reporting period zero (0) sturgeon were observed (Appendix A). On November 7, 2013 a white perch was observed south of the bridge by the vessel-based monitoring crew (Appendix A). On November 30, 2013 a striped bass was observed south of the bridge by the vessel-based monitoring crew (Appendix A).







APPENDIX A

Summary of Pile Driving Sturgeon Monitoring Activities

Appendix A: Summary of Impact Pile Driving Sturgeon Monitoring Activities



Number of Sturgeon Observed:

Reporting Period:

12/20/2013 10/19/2013 - 12/19/2013 0

Created by: Checked by:

C. Coccaro, December 20, 2013 D. Henshaw, December 20, 2013

				Fish Observed			
Date	Barge-Based Monitoring Time	Vessel-Based Monitoring Time	Number of Fish Observed	Species	Sturgeon Specimen Log Number	Condition (stunned / dead)	Time Observed
10/19/2013	12:04 - 16:25	12:02 - 16:51	0	NA	NA	NA	NA
11/7/2013	14:27 - 16:57	14:26 - 16:57	1	White Perch	NA	Injured	14:56-15:53
11/8/2013	11:55 - 15:19	11:47 - 13:44	0	NA	NA	NA	NA
11/12/2013	10:45 - 16:42	10:45 - 16:42	0	NA	NA	NA	NA
11/13/2013	12:50 - 16:41	12:50 - 16:41	0	NA	NA	NA	NA
11/26/2013	13:46 - 16:18	13:45 - 16:18	0	NA	NA	NA	NA
11/29/2013	12:30 - 16:25	12:29 - 16:25	0	NA	NA	NA	NA
11/30/2013	12:14 - 14:39	12:23 - 15:10	1	Striped Bass	NA	Dead	12:23-13:02
12/2/2013	8:48 - 16:21	8:48 - 16:27	0	NA	NA	NA	NA
12/5/2013	NA	NA	NA	NA	NA	NA	NA
12/6/2013	10:39 - 14:45	10:39 - 13:00	0	NA	NA	NA	NA
12/7/2013	12:00 - 16:26	12:00 - 16:26	0	NA	NA	NA	NA

Notes: ^a Small craft advisory

^b Pile driven after sunset