Dredging and Pile Driving Monitoring Plan
Sturgeon Monitoring During Pile Driving
60-day Report
12/20/2013 – 2/15/2014
for the
New NY Bridge Project

February 18, 2014

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1.0 Introduction

This report summarizes the methods and results of sturgeon monitoring during permanent pile driving of [redacted] piles for the period of December 20, 2013 to February 15, 2014. Sturgeon monitoring was conducted per the Dredging and Pile Driving Monitoring Plan, Revision 2 (Plan) for the New NY Bridge Project (the Project). This Plan was developed to comply with 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 impact pile driving monitoring for permanent piles at [redacted] from the pile driving barge and a small vessel per the Plan. A barge-based monitor was on site for all piles driven during the reporting period. A vessel-based monitor was on site for all piles driven during the reporting period except when conditions (e.g., ice, high winds) precluded small vessel operation and observations on:

- January 18, 2014 [redacted] Ice conditions.

Figure 1 provides an example of typical GPS transects completed by the vessel-based monitoring crew while monitoring impact pile driving operations at [redacted] on January 20, 2014. These piles were driven during a flood current and southwest winds. Based on these river conditions the monitors completed several circular and saw tooth pattern north of the bridge.

2.1 Ice Conditions

Due to ice conditions in the River no pile driving activity took place from January 21, 2014 through February 15, 2014.

3.0 Results

A total of [redacted] piles were impact driven from December 20, 2013 through February 15, 2014. All [redacted] piles were installed at [redacted]. Monitoring activities and results are summarized in Appendix A.

During the reporting period zero (0) sturgeon were observed during impact pile driving. A dead, decayed catfish (not identified to species) was observed by the barge-based monitor on January 20, 2014 (Appendix A). The fish was approximately 18-24 inches long.
Figure 1.
GPS Transects for January 20, 2014
APPENDIX A

Summary of Pile Driving Sturgeon Monitoring Activities
# Appendix A: Pile Driving Sturgeon Monitoring Summary

**Report Date:** 2/18/2014  
**Reporting Period:** 12/20/2013 - 2/15/2014  
**Number of Sturgeon Observed:** 0

**Created by:** Christopher Coccaro, 2/15/2014  
**Checked by:** Donald Henshaw 2/17/2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Barge-Based Monitoring Time</th>
<th>Vessel-Based Monitoring Time</th>
<th>Number of Fish Observed</th>
<th>Species</th>
<th>Sturgeon Specimen Log Number</th>
<th>Condition (Stunned / Dead)</th>
<th>Time Observed</th>
<th>Location Observed (Lat/Long or Barge Name)</th>
</tr>
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<tr>
<td>1/18/2014</td>
<td>12:59 - 16:50</td>
<td>13:00 - 15:45</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1/18/2014</td>
<td></td>
<td></td>
<td>1</td>
<td>Catfish$^b$</td>
<td>NA</td>
<td>Dead</td>
<td>14:20</td>
<td>From Thomas W</td>
</tr>
</tbody>
</table>

**Notes:**  
$^a$ Monitoring suspended due to ice conditions in the river.  
$^b$ Non-sturgeon species are not recovered for data collection.