

Water Quality Monitoring Plan
for Bridge Demolition Activities
for the
New NY Bridge Project

Revision 12
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1.0 Introduction

The New York State Department of Environmental Conservation Permit DEC ID 3-9903-00043/00012 (NYSDEC Permit) and subsequent modifications through and including the July 3, 2014 letter from the NYSDEC for the Tappan Zee Hudson River Crossing Project (Project) sets forth the requirements for water quality monitoring during demolition. This Water Quality Monitoring Plan (Plan) reflects these requirements and meets the Environmental Performance Commitments (EPCs) identified in the Final Environmental Impact Statement (FEIS). The Plan for construction activities is described in Revision 8 of this Plan. The Plan for demolition activities is described in the sections below.

2.0 Monitoring Objectives

The overall objective of this program is to monitor demolition activities for total suspended solids (TSS) and contaminants via the collection and analysis of whole water samples and for turbidity through visual inspection as described in Table 1. If a specific demolition activity is occurring at multiple locations on a given day, water quality samples will be collected from a single representative location where the activity is occurring. If one of the locations is within Area 1 or 6, the single representative sample would be collected from these areas to the maximum extent practicable.

Table 1. Water Quality Monitoring Required by Demolition Activities Associated with the Tappan Zee Hudson River Crossing Project

Demolition Activity	Water Quality Monitoring
Ice Breaker and Fender Removal	
Timber Pile Clusters (Ice breakers/ dolphins)	Daily visual monitoring for turbidity extending beyond 500ft mixing zone or full depth turbidity curtain if in Area 1. Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone or turbidity curtain if in Area 1. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.
Timber/Steel Fender Frame (Bents 169-173, 178)	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.

Demolition Activity	Water Quality Monitoring
Triangular Concrete Ice Breakers	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
Main Span Fender:	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
	Foundation Removal
Timber Pile Supported Pile Cap Foundation	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone or outside of full depth turbidity curtain if in Area 1; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone or outside of full depth turbidity curtain if in Area 1.</p> <p>*Please see section 3.1.1 and 3.2.1.1 for additional monitoring to be conducted during this operation.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone or outside the turbidity curtain if in Area 1; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
Circular Caissons	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone or outside of full depth turbidity curtain if in Area 6; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone or outside the turbidity curtain if in Area 6;</p>

Demolition Activity	Water Quality Monitoring
Rectangular Caissons	<p>Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p> <p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
Debris Recovery from River Bottom (If conducted as a stand alone activity separate from a demolition activity)	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
Sediment Displacement	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>

Demolition Activity	Water Quality Monitoring
Jetting	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
<p>East Anchor Span Blasting and Salvage:</p> <p>(Includes chain deployment, span landing on river bottom, and retrieval of the span/chains)</p>	<p>Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 59, 60, 61, and 64 at the edge of a 500-foot mixing zone or as close as safety and operational conditions permit.</p> <p>Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five monitoring events of whole water sample collection.</p>
	Substructure Removal
Substructure Demolition	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone.

3.0 Methods

Water quality monitoring methods will vary based on in-water demolition activity (i.e. visual observation or vessel based whole water sample collection). Based on the width of the Hudson River and hydrodynamics in the area, multiple activities can be monitored or sampled each day with one survey crew. If all activities cannot be monitored or sampled by a single crew, additional crews or vessels will be used as necessary.

The sections below describe the methods for the water quality monitoring plan.

3.1 Visual Observations

Visual observations of activities will be conducted by a barge-based or vessel-based observer during the activities identified in Table 1.

An observation of turbidity that extends beyond the 500-ft mixing zone or in the vicinity of the demolition activity, as specified in Table 1, will be reported immediately to the Environmental Compliance Manager (ECM) or designee who will then inform NYSTA, OEMC, and NYSDEC. The ECM or designee will

immediately coordinate with Tappan Zee Constructors, LLC (TZC) operations to implement corrective actions as to comply with water quality standards.

Visual observations will be documented on one or more field forms (Attachment A). Observations forms include but are not limited to:

- Environmental Checklists (ENV CL)
- Field Compliance Reports (FCR)
- Visual Inspection Forms (VIF)

If an exceedance is reported during reduced monitoring for an activity listed in Table 1, then additional monitoring will be implemented as specified in Section 3.3.

3.1.1 Timber Pile Supported Pile Cap Foundation

A list of Best Management Practices (BMPs) was developed for this operation and is included in the NYSDEC Demolition Plan Rev5. To ensure adherence to these BMPs and other permit requirements, for the first 2 weeks of the operation the ECT will conduct daily inspections of the operations to be provide to the NYSDEC for review.

3.2 Vessel Based Whole Water Samples

Vessel-based water quality monitoring will be conducted for activities as specified in Table 1. TSS and contaminant whole water samples will be collected during either the flood or ebb tide stage during daylight hours. Water quality monitoring via whole water sample collection will be conducted daily for each activity.

Daily visual observations as described in Section 3.1 will continue through the duration of activities described in Permit Condition 59. If there is an exceedance of 100 mg/l above ambient TSS value or the observation of turbidity extending beyond 500-ft mixing zone, then corrective actions will be taken and the NYSDEC will be consulted to determine if additional monitoring is required. NYSTA and the OECM will notify NYSDEC to any corrective actions implemented. Vessel-based monitoring may be temporarily suspended due to weather or other safety concerns. If monitoring is temporarily suspended NYSTA and the OECM will be notified who will inform the NYSDEC. Conditions resulting in suspension of monitoring due to weather or other safety concerns will be documented in the reports described in Sections 4.1 and 4.3.

3.2.1 In-Plume (Downcurrent)

In-plume surveys will be collected at the edge of the 500-ft mixing zone, or at the nearest practicable proximity to a silt curtain, if one is used. An Acoustic Doppler Current Profiler (ADCP) will be used to identify the plume. An Optical Backscatter Sensor (OBS) configured to record turbidity (NTU), depth (meters), temperature (°C) and salinity (ppt) will be mounted to a submersible pump and used to collect vertical profiles at water sample station locations. Simultaneously, the pump will be used to collect discrete whole water samples at separate depths for laboratory analysis of TSS and contaminants. When water depth is less than 10 feet, only mid-depth samples will be collected. When water depth is between 10 and 20 feet, samples will be taken from near-surface and near-bottom. When water depth is greater than 20 feet, samples will be taken from near-surface, mid-depth, and near-bottom. Near-surface samples will be collected from approximately three feet below the surface, mid-depth will be collected approximately half-way between the bottom and surface and bottom samples from approximately three feet above the bottom. The water samples will be preserved at 4° C and sent to the laboratory for analysis under full Chain-of-Custody protocols.

3.2.1.1 Timber Pile Supported Pile Cap Foundation

A list of BMPs was developed for this operation and is included in the NYSDEC Demolition Plan Rev5. To ensure adherence to these BMPs and other permit requirements, the ECT water quality vessel will monitor this operation for turbidity, both visually and with water quality instrumentation (ADCP/OBS) as sampling for other operations allows. These observations will be relayed to the TZC staff. Additionally, Total TSS samples collected per Table 1 will be processed with an accelerated turnaround time to allow for timely evaluation of the efficacy of the BMPs.

3.2.2 Background (Upcurrent)

In addition to in-plume surveys, ambient surveys will be conducted using the same methods and procedures described above. Ambient surveys will be conducted along a transect a minimum of 500-ft up current of the source to provide data for comparison with the in-plume surveys. This transect will be conducted at a location up current of the source where the water quality effects of the project are no longer discernible. Samples will be collected in the same manner as the in-plume surveys.

3.2.3 Contaminant Analyses

To obtain measurements of water quality within the water column, whole water samples will be collected per Section 2.0 during each survey at the upcurrent and downcurrent transect. These samples will be collected using the pump sampler at the required depths, and will be analyzed for the parameters listed in Permit Condition 61.

The samples to be analyzed for dissolved nickel, copper, lead and zinc will be filtered in the field. All samples will be prepared, preserved as required, maintained at 4°C and shipped to a New York State Department of Health Environmental Laboratory Approval Program certified lab under full Chain-of-Custody protocols.

If an exceedance is reported during reduced monitoring for an activity listed in Table 1 then additional monitoring will be implemented as specified in Section 3.3.

3.2.4 Modified Whole Water Sample Collection due to Limited Access, Safety, or Other Operational Concerns

In the event that the site configuration would prevent the collection of whole water samples as outlined in Section 3.2.1 or Section 3.2.2 as described above, due to limited access, monitoring crew safety, or other operational concern, TZC will request to modify the collection of whole water samples for a specific operation to allow for representative samples to be collected while ensuring the safety of staff and equipment.

TZC will collect water quality samples using a battery powered pump sampler or a Niskin water sampler for the downcurrent and upcurrent samples. A field inspector will position themselves in a location that is safely accessible and collect a representative water quality sample. The water depth will be measured prior to collecting a sample and sample depths will be collected as specified in Section 3.2.1. To fill the requisite sample volumes, multiple niskin samples may be required to be collected from a given depth. An ADCP and OBS unit will not be used during collection of samples. The water samples will be preserved at 4° C and sent to the laboratory for analysis under full Chain-of-Custody protocols. The collected samples will be analyzed for and reported upon according to Section 3.2.3.

3.3 Reduced Water Quality Monitoring

Following the receipt of five consecutive water quality monitoring events with no water quality standard exceedances for an activity listed in Table 1, TZC will provide the results to NYSTA, OEMC, and NYSDEC and request to follow a reduced monitoring schedule per Permit Condition 64. Following approval by NYSDEC, documented in the form of a letter or e-mail, TZC will follow the reduced monitoring schedule for that activity as stated in Table 1.

If, during the reduced sampling for any activity, visible turbidity is observed immediately outside of a silt curtain or at the edge of the 500-foot mixing zone (per Table 1) or if there is an exceedance of 100 mg/L above the ambient TSS value, corrective action shall be taken and TSS monitoring frequency shall return to daily (every day that the activity occurs) for that activity until such time as TSS concentrations are less than 100 mg/L above ambient values on two consecutive measurements and visible turbidity is not observed immediately outside of a silt curtain or at the edge of the 500-ft mixing zone (per Table 1). NYSDEC may specify additional monitoring until compliance is demonstrated. Samples shall be collected until NYSDEC approves resumption of reduced monitoring.

3.4 Silt Curtain Removal from Areas 2-5

As part of the NYSDEC Demolition Plan Rev10.1b, TZC will collect TSS samples daily, Monday to Friday, for those bottom disturbing activities in Areas 2-5 that will no longer be subject to the 5 foot turbidity curtain requirement for the first 3 weeks following approval. These samples will be collected at the depths and distances specified in Sections 3.2.1 and 3.2.2 of this Plan. Additionally these samples will be processed with an accelerated (2 day) turnaround time at the analytical laboratory such that any potential non-compliance could be quickly identified and rectified. In the event of an exceedance, NYSDEC will be notified and corrective measures as appropriate will be taken. Following the first three weeks of monitoring, TZC will resume water quality monitoring in accordance with this Plan. Daily visual monitoring for turbidity will also be performed by the ECT for the same three week time period.

4.0 Reporting

4.1 Analytical Results

All analytical results (i.e. TSS and contaminants) of water samples collected in Section 3.1 will be provided to NYSTA and the OEMC. The OEMC will transmit the analytical results to the NYSDEC by fax or email within 48 hours of receipt of the data results from TZC. Any exceedances will be highlighted by TZC. Exceedances will be based on differences in TSS and contaminant concentrations from analytical results of the water samples between the upcurrent and downcurrent stations, when the background concentration exceeds the water quality standards or detection limits in Permit Condition 61. Otherwise, exceedances will be based on the water quality standards or detection limits in Permit Condition 61.

Following receipt of five samples for an activity monitoring TZC will provide the results and request for reduced monitoring to NYSTA and OEMC who will forward it to NYSDEC. TZC will follow the reduced sampling schedules provided in Table 1 once approved by NYSDEC.

4.2 Water Quality Standard Exceedances

In the event of an exceedance of a water quality standard for TSS and contaminants based on the analytical results of the water samples or field form documented visual inspections of turbidity as described in Permit Condition 64.c, NYSTA, OEMC, and NYSDEC will be notified. Corrective actions will be taken and TSS monitoring will return to daily for that activity until TSS concentrations are less than 100 mg/l above ambient values on two consecutive measurements and turbidity is not observed extending beyond the 500-ft mixing zone. With NYSDEC approval, activity monitoring would return to the reduced schedule stated in Table 1.

Based on the Plan, in consultation with the OECM and NYSDEC, the in-water activities will be re-evaluated in consultation with NYSDEC to determine the need for procedural changes.

4.3 Reporting

Three (3) copies of the annual water quality monitoring report, summarizing the results of the water quality monitoring program and analyses will be submitted to NYSDEC for review within 30 days following the New Year.

ATTACHMENT A
Visual Observation Forms

INSTRUCTIONS: Complete Section A for all work. Complete Sections below as work progresses for those activities.
CHECK POINTS (CP) must be initiated by responsible person before work progresses. Return completed form at end of shift.

Pier/Bent # .:	Date:	Time (Start & End):	Superintendent:
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SECTION A. GENERAL REQUIREMENTS

A1. Spill Prevention (circle NA if not applicable)

(CP) Spill Kit and SPCC Plan readily available (confirm spill kit content list is stocked, circle and initial)	Y	initial here
Sheen or spill of ANY size observed	Y	N
If Yes, immediately notify ECT and take corrective action	Persons Notified: _____	
	Time Notified (hh:mm): _____	

A2. Peregrine Falcon Protection (circle NA if activity or equipment is designated unlikely landing site for falcons)

Checkerboard flag installed at top of cranes (circle one)	Y	N	NA
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A3. Sturgeon See below for examples. Complete at end of shift or when fish/ birds observed.

Sturgeon observed (circle):	Y	N	If Yes immediately notify ECT and fill out sections below
Observer Name: _____	Time(s) observed (hh:mm): _____		
Member(s) Notified: _____	Time Notified (hh:mm): _____		

SECTION B. SUPER/SUBSTRUCTURE DEMOLITION

Structure Type:(circle one) **A. Deck** **B. Column** **C. Other** _____

Activity Information (circle one): **A. Saw Cutting** **B. Core Drilling** **C. Wire Sawing** **D. Hoe Ramming** **E. Other** _____

1. (CP) Debris net/shielding installed prior to superstructure work:	initial here	Y	N	NA
2. Dust suppression implemented if potential for fugitive dust	initial here	Y	N	NA
If No, immediately notify ECT and take corrective action	Persons Notified: _____		Time Notified: _____	
3. Vacuums following deck saw?	initial here	Y	N	NA
If No, immediately notify ECT and take corrective action	Persons Notified: _____		Time Notified: _____	
3. Is floating containment boom and/or turbidity curtain deployed around substructure demolition?	initial here	Y	N	NA
If No, immediately notify ECT and take corrective action	Persons Notified: _____		Time Notified: _____	
4. Turbidity observed beyond 500ft mixing zone during substructure demolition?	initial here	Y	N	NA
If Yes, immediately notify ECT and take corrective action	Persons Notified: _____		Time Notified: _____	

SECTION C. INWATER/FOUNDATION DEMOLITION

Structure Type: (circle one): **A. Circular Caisson** **B. Triangular Ice Breaker** **C. Rectangular Caisson** **D. Main Span Fender** **E. Timber Pile Cap**

Activity Information (circle one): **A. Cutting/Hoe Ramming** **B. Sediment Displacement** **C. Debris Removal from Bottom**

D. Timber Pile Removal (Ice breaker or foundation) **E. Jetting** **F. Other** _____

1. a. Does activity disturb river bottom sediments?	Y	N
b. If Yes? (CP) ECT notified within 6 hours to coordinate Water Quality Monitoring ?	initial here	Y
2. a. (CP) Full Depth Turbidity curtain installed (Areas 1 and 6 only)	initial here	Y
b. (CP) Containment boom installed and anchored to the river bottom (Area 2)	initial here	Y
c. Turbidity observed? Outside of full depth turbidity curtain if used or beyond 500 ft mixing zone if not (circle):	initial here	Y
If Yes, immediately notify ECT and take corrective action	Persons Notified: _____	
d. Turbidity curtain in need of repair in this area?	initial here	Y
3. Dust suppression implemented if work is above water or fugitive dust observed?	Y	N

Examples of a Sturgeon

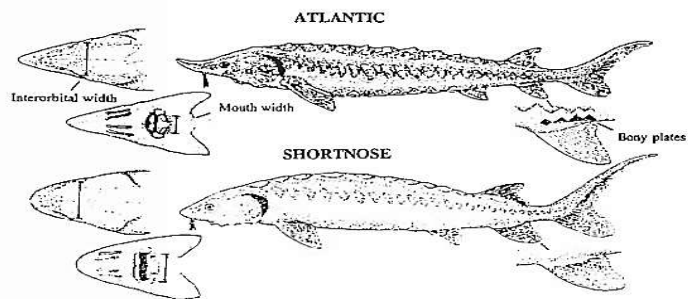
Environmental Compliance Team Contacts

(contact in order shown until someone is reached)

1. Steven Martin	845-671-8329
2. Elena Barnett	914-391-8950
3. Tim Piazza	845-709-1396
4. Conner King	203-770-7203

APPENDIX G

Identification Key for Sturgeon Found in Northeast U.S. Waters



Name: _____ (print)

Signature: _____ (by signing I certify I have performed the above checks and believe them to be accurate)

WATER QUALITY MONITORING PLAN: VISUAL INSPECTION FORM
New NY Bridge Project

TAPPAN ZEE CONSTRUCTORS, LLC

Inspector: _____

Date: _____

Part 1: Observation of Turbidity Resulting in a Substantial Visible Contrast

Location	In Water Activity	Time In (24-Hr)	Time Out (24-Hr)	Turbidity Observed?	Time of Observation	Time of Notification	Containment Boom in Place?	Sturgeon Observed (Yes / No)

In-Water Activities: Dredging/Armoring/Cofferdam Construction/Cofferdam De-watering/Impact Pile Driving/Vibratory Pile Driving/Pile Extraction/Pile De-watering/Other (write in)

Comments: _____ (Include file number of any photographs)



Environmental Compliance Field Report

Observer:		Location:	
Date:		Day:	
		Time:	
Weather:			
Work Observed:			

Compliance Plan:	Work Performed in Compliance with Plan: Yes/No	Comments:									
Marine Compliance Plan Check List:											
Place yes or no in box. If activity is not occurring select NA											
Operation	Inspected	Pier	Turbidity Observed	Boom in Place	Sheen Observed	Spill Kits Stocked	SPCC Plan Site	Sturgeon Observed	Flag on Crane	Stickers on Operating Equipment	Comments
Pile Driving											
Armoring											
Pile Dewatering											
Cofferdam Dewatering											
Concreting											
Pile Driving Activity Check List:											
Pier	PD Start Time	Pile Numbers	NAS Operating During PD	Boom in Place	Ring psi Within Specs	Cables Taut	No. of Shroud Sections	Barge Monitor	On Barge Form in Progress	Comments	
General Notes:											
Environmental Actions Taken:											

Environmental Compliance Field Report

Figure 1 –	Figure 2 –
Figure 3 –	Figure 4 –