

Survey Date		05/02/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050214-A263-E-U											050214-A263-E-D												
Sample Time		09:26											09:14												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	48.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	66.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	77.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/02/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C						Comments																		
Tide		Ebb																								
Source Location		Pier 31																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID		050214-P031-E-U											050214-P031-E-D													
Sample Time		08:56											08:33													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>		S	86.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	88.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
		M	130	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	10	ND	ND	ND	ND	ND
		B	213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
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Survey Date		05/02/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C						Comments																		
Tide		Flood																								
Source Location		Pier 31																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID		050214-P031-F-U											050214-P031-F-D													
Sample Time		11:03											10:40													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>		S	35.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
		M	51.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
		B	56.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
    - No detection limit or water quality standard
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- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/03/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050314-A263-E-U											050314-A263-E-D												
Sample Time		09:39											09:21												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	44.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	54.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	62.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
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Survey Date		05/03/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050314-A263-F-U											050314-A263-F-D												
Sample Time		11:15											10:56												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	33.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		M	NS											NS											
		B	47.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	196	ND	ND	ND	ND	10	ND	ND	ND	ND	ND

- Notes:
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  - 2 Samples collected at the edge of the 500 ft mixing zone
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 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/05/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050514-A263-E-U											050514-A263-E-D												
Sample Time		08:58											08:40												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	49.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	78.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	53.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	83.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND

- Notes:
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Survey Date		05/05/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		050514-A263-F-U											050514-A263-F-D											
Sample Time		12:37											13:03											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	40.8	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	46.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	104	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
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  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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<b>Survey Date</b>		05/06/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring						<b>Comments</b>																	
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>												<b>Downcurrent</b>											
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
<b>Sample ID</b>		050614-A263-E-U												050614-A263-E-D											
<b>Sample Time</b>		08:18												08:02											
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)										(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	36.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS												NS											
	<b>B</b>	34.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	42.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND

- Notes:
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  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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Survey Date		05/06/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050614-A263-F-U											050614-A263-F-D												
Sample Time		13:53											13:34												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	24.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	62.8	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	33.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	139	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
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Survey Date		05/07/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Flood																						
Source Location		Pier 31																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		050714-P031-F-U											050714-P031-F-D											
Sample Time		16:34											16:14											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	15.2	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	14.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	16.0	ND	ND	3.2	ND	20	ND	ND	ND	ND	ND	ND
	B	150	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	107	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/08/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C					Comments																		
Tide		Ebb																							
Source Location		Pier 32																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		050814-P032-E-U											050814-P032-E-D												
Sample Time		11:09											10:46												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	8.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.00	ND	ND	3.7	ND	13	ND	ND	ND	ND	ND	ND
	M	6.80	ND	ND	3.3	ND	10	ND	ND	ND	ND	ND	ND	6.80	ND	ND	3.7	ND	12	ND	ND	ND	ND	ND	ND
	B	13.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	20.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/08/2014																									
<b>Survey Type</b>		V - Vessel Based																									
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																				
<b>Tide</b>		Ebb																									
<b>Source Location</b>		Armoring Operations																									
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>												<b>Downcurrent</b>													
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>													
<b>Sample ID</b>		050814-A263-E-U												050814-A263-E-D													
<b>Sample Time</b>		11:54												11:36													
<b>Parameter</b>		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
<b>Unit</b>		(ppm)	(ppb)												(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1		
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
<b>Analytical Result<sup>4</sup></b>		<b>S</b>	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND		
		<b>M</b>	NS												NS												
		<b>B</b>	25.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	20.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/08/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring						<b>Comments</b>																	
<b>Tide</b>		Flood																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		050814-A263-F-U											050814-A263-F-D												
<b>Sample Time</b>		14:57											14:40												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>	(ppm)	(ppb)											(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
<b>Water Quality Standard<sup>3</sup></b>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	18.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	16.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/09/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Ebb																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)										Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>										500 ft <sup>2</sup>												
Sample ID		050914-A263-E-U										050914-A263-E-D												
Sample Time		09:26										09:11												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS										NS												
	B	13.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	30.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/09/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		050914-A263-F-U												050914-A263-F-D										
Sample Time		07:34												07:21										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	8.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS										
	B	13.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard  
 \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/09/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations (Bedding Material Placement)																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		050914-ABED-E-U												050914-ABED-E-D											
Sample Time		11:36												10:44											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	13.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	38.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	12.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



<b>Survey Date</b>		05/10/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																		
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		051014-A263-E-U											051014-A263-E-D												
<b>Sample Time</b>		10:15											09:57												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>	<b>(ppm)</b>	<b>(ppb)</b>											<b>(ppm)</b>	<b>(ppb)</b>											
<b>Detection Limit<sup>3</sup></b>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
<b>Water Quality Standard<sup>3</sup></b>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	19.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	20.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	24.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND

Notes:

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/10/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		051014-A263-F-U												051014-A263-F-D										
Sample Time		08:50												08:34										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	7.60	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	8.80	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	6.00	ND	ND	3.5	ND	14	ND	ND	ND	ND	ND	ND	11.6	ND	ND	3.3	ND	10	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/12/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051214-A263-E-U											051214-A263-E-D												
Sample Time		11:32											11:17												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	18.0	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND	15.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	44.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	27.0	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/12/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Flood																						
Source Location		Pier 32																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		051214-P032-F-U											051214-P032-F-D											
Sample Time		08:34											08:12											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	16.4	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	18.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	45.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	84.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	B	89.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	222	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/12/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C						Comments																	
Tide		Ebb																							
Source Location		Pier 31																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051214-P031-E-U											051214-P031-E-D												
Sample Time		12:07											11:46												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	19.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.4	ND	ND	3.3	ND	11	ND	ND	ND	ND	ND	ND
	M	32.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	25.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	B	39.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	41.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/12/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C						Comments																		
Tide		Flood																								
Source Location		Pier 31																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID		051214-P031-F-U											051214-P031-F-D													
Sample Time		09:10											08:46													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>		S	16.8	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	14.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	
		M	44.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	40.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
		B	29.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	87.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/13/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Ebb																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		051314-A263-E-U											051314-A263-E-D											
Sample Time		13:11											12:23											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	34.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	24.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	32.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
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  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/13/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		051314-A263-F-U												051314-A263-F-D										
Sample Time		07:49												07:34										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	36.8	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	33.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS												NS										
	B	30.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	38.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
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 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



<b>Survey Date</b>		05/13/2014																									
<b>Survey Type</b>		V - Vessel Based																									
<b>Construction Activity</b>		PDC - Pile Driving - Zone C						<b>Comments</b>																			
<b>Tide</b>		Ebb																									
<b>Source Location</b>		Pier 32																									
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>														
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>														
<b>Sample ID</b>		051314-P032-E-U											051314-P032-E-D														
<b>Sample Time</b>		12:55											12:35														
<b>Parameter</b>		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)												
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
<b>Analytical Result<sup>4</sup></b>		<b>S</b>	22.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	18.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	
		<b>M</b>	45.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	28.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND
		<b>B</b>	135	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	59.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/14/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		051414-A263-F-U												051414-A263-F-D										
Sample Time		08:15												08:03										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	40.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	39.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS										
	B	52.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
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- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/14/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C						Comments																		
Tide		Flood																								
Source Location		Pier 32																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID		051414-P032-F-U											051414-P032-F-D													
Sample Time		08:59											08:33													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	16	0.0006		
Analytical Result <sup>4</sup>		S	24.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
		M	36.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
		B	52.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	72.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected

NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/15/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																		
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		051514-A263-E-U											051514-A263-E-D												
<b>Sample Time</b>		13:48											13:33												
<b>Parameter</b>		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)										
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/15/2014																								
<b>Survey Type</b>		V - Vessel Based																								
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																			
<b>Tide</b>		Flood																								
<b>Source Location</b>		Armoring Operations																								
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>													
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
<b>Sample ID</b>		051514-A263-F-U											051514-A263-F-D													
<b>Sample Time</b>		09:22											09:04													
<b>Parameter</b>		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
<b>Analytical Result<sup>4</sup></b>		<b>S</b>	32.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	44.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
		<b>M</b>	NS											NS												
		<b>B</b>	40.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/15/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C						Comments																	
Tide		Flood																							
Source Location		Pier 32																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051514-P032-F-U											051514-P032-F-D												
Sample Time		08:43											08:21												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>	S	17.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	26.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	B	47.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	34.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
    - No detection limit or water quality standard
    - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/16/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		051614-A263-E-U												051614-A263-E-D											
Sample Time		14:02												13:48											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	39.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	43.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	40.4	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	47.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/16/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051614-A263-F-U											051614-A263-F-D												
Sample Time		08:41											08:28												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	37.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	58.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND
		M	NS											NS											
		B	43.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	81.6	ND	ND	ND	ND	13	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



Survey Date		05/19/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051914-A263-E-U											051914-A263-E-D												
Sample Time		16:51											16:33												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	26.4	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	17.6	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	32.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	32.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14  
 -- No detection limit or water quality standard  
 \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- 4 ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
 S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/19/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		051914-A263-F-U												051914-A263-F-D										
Sample Time		10:34												10:49										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	39.6	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	37.6	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	48.8	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	49.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/19/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		PDC - Pile Driving - Zone C						Comments																	
Tide		Ebb																							
Source Location		Pier 32																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		051914-P032-E-U											051914-P032-E-D												
Sample Time		19:44											19:20												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	20.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	56.0	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	ND	36.8	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND
	B	108	ND	ND	3.1	ND	11	ND	ND	ND	ND	ND	ND	41.6	ND	ND	3.6	ND	12	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/20/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		052014-A263-E-U											052014-A263-E-D												
Sample Time		08:57											08:37												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	75.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	86.8	ND	ND	3.0	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	88.4	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	84.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14  
 -- No detection limit or water quality standard  
 \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
  - 4 S = Near Surface, M = Mid-Depth, B = Near Bottom
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		05/20/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		052014-A263-F-U												052014-A263-F-D										
Sample Time		12:33												12:14										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	32.0	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	58.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS										
	B	57.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	71.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/21/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		052114-A263-E-U											052114-A263-E-D												
Sample Time		10:23											10:00												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	50.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	107	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	74.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	112	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14  
 -- No detection limit or water quality standard  
 \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- 4 ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
 S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/21/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring					Comments																			
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		052114-A263-F-U												052114-A263-F-D												
Sample Time		13:04												12:45												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	28.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	46.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/22/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																		
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>												<b>Downcurrent</b>											
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
<b>Sample ID</b>		052214-A263-E-U												052214-A263-E-D											
<b>Sample Time</b>		10:49												10:33											
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)										(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	46.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	50.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS												NS											
	<b>B</b>	50.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	77.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



Survey Date		05/22/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		052214-A263-F-U											052214-A263-F-D												
Sample Time		14:04											13:48												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	23.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	45.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	28.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	141	ND	ND	ND	ND	13	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/22/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Flood																						
Source Location		Pier 32																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		052214-P032-F-U											052214-P032-F-D											
Sample Time		15:48											15:28											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	34.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	46.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	44.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	60.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	B	146	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	91.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/23/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring						Comments																	
Tide		Ebb																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID		052314-A263-E-U												052314-A263-E-D											
Sample Time		08:43												08:30											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	
Analytical Result <sup>4</sup>	S	17.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	23.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	32.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/23/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring					Comments																		
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		052314-A263-F-U											052314-A263-F-D												
Sample Time		07:08											06:57												
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit		(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>		S	41.6	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	27.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
		M	NS											NS											
		B	30.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	36.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/23/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		PDC - Pile Driving - Zone C					Comments																	
Tide		Ebb																						
Source Location		Pier 32																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		052314-P032-E-U											052314-P032-E-D											
Sample Time		09:57											09:36											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	16.0	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	16.4	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND
	M	28.8	ND	ND	3.2	ND	13	ND	ND	ND	ND	ND	29.6	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND
	B	39.6	ND	ND	3.2	ND	14	ND	ND	ND	ND	ND	38.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/23/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		PDC - Pile Driving - Zone C						Comments																		
Tide		Flood																								
Source Location		Pier 32																								
Sample Location		Upcurrent (Ambient)											Downcurrent													
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID		052314-P032-F-U											052314-P032-F-D													
Sample Time		08:05											07:49													
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
								Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit		(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>		Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>		S	14.4	ND	ND	3.3	ND	11	ND	ND	ND	ND	ND	17.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
		M	32.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	26.0	ND	ND	3.3	ND	11	ND	ND	ND	ND	ND	ND
		B	51.2	ND	ND	3.2	ND	15	ND	ND	ND	ND	ND	ND	50.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/27/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																		
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		052714-A263-E-U											052714-A263-E-D												
<b>Sample Time</b>		12:33											12:15												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)										
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	19.6	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	30.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	19.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	38.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/27/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location	Upcurrent (Ambient)												Downcurrent												
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID	052714-A263-F-U												052714-A263-F-D												
Sample Time	08:41												08:26												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>	S	45.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	45.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	50.8	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	44.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



<b>Survey Date</b>		05/27/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		PDC - Pile Driving - Zone C				<b>Comments</b>																			
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Pier 35																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		052714-P035-E-U											052714-P035-E-D												
<b>Sample Time</b>		13:10											12:55												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)										
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	26.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	38.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - 2 Samples collected at the edge of the 500 ft mixing zone
  - 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/28/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring						<b>Comments</b>																	
<b>Tide</b>		Ebb																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>												<b>Downcurrent</b>											
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
<b>Sample ID</b>		052814-A263-E-U												052814-A263-E-D											
<b>Sample Time</b>		13:19												13:01											
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)										(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	24.4	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND	28.0	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS												NS											
	<b>B</b>	27.6	ND	ND	3.2	ND	10	ND	ND	ND	ND	ND	ND	ND	36.8	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/28/2014																							
Survey Type		V - Vessel Based																							
Construction Activity		ARM - Armoring			Comments																				
Tide		Flood																							
Source Location		Armoring Operations																							
Sample Location	Upcurrent (Ambient)											Downcurrent													
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>													
Sample ID	052814-A263-F-U											052814-A263-F-D													
Sample Time	08:32											08:10													
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260			
Unit	(ppm)	(ppb)											(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	
Analytical Result <sup>4</sup>	S	21.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	35.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	21.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.2	ND	ND	3.1	ND	10	ND	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/28/2014																								
<b>Survey Type</b>		V - Vessel Based																								
<b>Construction Activity</b>		PDC - Pile Driving - Zone C					<b>Comments</b>																			
<b>Tide</b>		Flood																								
<b>Source Location</b>		Pier 35																								
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>												<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
<b>Sample ID</b>		052814-P035-F-U												052814-P035-F-D												
<b>Sample Time</b>		09:20												09:03												
<b>Parameter</b>	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
<b>Unit</b>	(ppm)	(ppb)												(ppm)	(ppb)											
<b>Detection Limit<sup>3</sup></b>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1		
<b>Water Quality Standard<sup>3</sup></b>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	20.4	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND	30.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND		
	<b>M</b>	NS												NS												
	<b>B</b>	65.6	ND	ND	3.3	ND	10	ND	ND	ND	ND	ND	ND	47.6	ND	ND	3.3	ND	11	ND	ND	ND	ND	ND		

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/29/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		PDC - Pile Driving - Zone C					<b>Comments</b>																		
<b>Tide</b>		Flood																							
<b>Source Location</b>		Pier 35																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		052914-P035-F-U											052914-P035-F-D												
<b>Sample Time</b>		09:29											09:12												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		<b>(ppm)</b>	<b>(ppb)</b>											<b>(ppm)</b>	<b>(ppb)</b>										
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	30.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	47.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	51.2	ND	ND	ND	ND	11	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected
- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
- <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

<b>Survey Date</b>		05/29/2014																							
<b>Survey Type</b>		V - Vessel Based																							
<b>Construction Activity</b>		ARM - Armoring					<b>Comments</b>																		
<b>Tide</b>		Flood																							
<b>Source Location</b>		Armoring Operations																							
<b>Sample Location</b>		<b>Upcurrent (Ambient)</b>											<b>Downcurrent</b>												
<b>Distance to Source</b>		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
<b>Sample ID</b>		052914-A263-F-U											052914-A263-F-D												
<b>Sample Time</b>		07:45											08:05												
<b>Parameter</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	<b>Total Suspended Solids</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Copper</b>	<b>Lead</b>	<b>Zinc</b>	<b>PCB</b>				<b>Naphthalene</b>	<b>Benzo(a)pyrene</b>	
							<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>									<b>Aroclor 1242</b>	<b>Aroclor 1248</b>	<b>Aroclor 1254</b>	<b>Aroclor 1260</b>			
<b>Unit</b>		(ppm)	(ppb)											(ppm)	(ppb)										
<b>Detection Limit<sup>3</sup></b>		Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1
<b>Water Quality Standard<sup>3</sup></b>		*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
<b>Analytical Result<sup>4</sup></b>	<b>S</b>	33.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
	<b>M</b>	NS											NS												
	<b>B</b>	35.2	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	24.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

- Notes:
- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
  - <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
  - <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
  - No detection limit or water quality standard
  - \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages
- ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/30/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Ebb																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>											
Sample ID		053014-A263-E-U											053014-A263-E-D											
Sample Time		14:04											13:51											
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)											(ppm)	(ppb)										
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	19.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	33.2	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	30.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/30/2014																						
Survey Type		V - Vessel Based																						
Construction Activity		ARM - Armoring					Comments																	
Tide		Flood																						
Source Location		Armoring Operations																						
Sample Location		Upcurrent (Ambient)												Downcurrent										
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>										
Sample ID		053014-A263-F-U												053014-A263-F-D										
Sample Time		08:29												08:10										
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260		
Unit	(ppm)	(ppb)										(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006
Analytical Result <sup>4</sup>	S	22.0	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS										
	B	27.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	27.6	ND	ND	ND	ND	17	ND	ND	ND	ND	ND

Notes:

- 1 Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- 2 Samples collected at the edge of the 500 ft mixing zone
- 3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

-- No detection limit or water quality standard  
 \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom



Survey Date		05/31/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring					Comments																			
Tide		Ebb																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		053114-A263-E-U												053114-A263-E-D												
Sample Time		07:49												07:34												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.05	--	--	--	--	0.2	0.2	0.2	0.2	--	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	34.0	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	104	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
	B	NS												NS												

Notes:

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

ND = Not Detected  
 NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.  
<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		05/31/2014																								
Survey Type		V - Vessel Based																								
Construction Activity		ARM - Armoring					Comments																			
Tide		Flood																								
Source Location		Armoring Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		053114-A263-F-U												053114-A263-F-D												
Sample Time		09:48												10:03												
Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	PCB				Naphthalene	Benzo(a)pyrene		
							Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260									Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260				
Unit	(ppm)	(ppb)												(ppm)	(ppb)											
Detection Limit <sup>3</sup>	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1		
Water Quality Standard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006	*	0.0007	8.2	5.6	8.0	66	--	--	--	--	16	0.0006		
Analytical Result <sup>4</sup>	S	NS												NS												
	M	43.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	92.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	
	B	NS												NS												

Notes:

- <sup>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible
- <sup>2</sup> Samples collected at the edge of the 500 ft mixing zone
- <sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14
- No detection limit or water quality standard
- \* None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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<sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom