

Survey Date		02/19/2019																							
Survey Type		V - Vessel Based																							
Construction Activity		JETT - Jetting					Comments																		
Tide		Flood																							
Source Location		B176																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		021919-JETT-F-U											021919-JETT-F-D												
Sample Time		11:25											11:09												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	81	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	M	94	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	117	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	125	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	123	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

- 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
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom
  - 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
- NR = Not Required for these parameters, due to approval of reduced monitoring as of 2/14/2019, pursuant to Condition 64 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		02/20/2019																							
Survey Type		V - Vessel Based																							
Construction Activity		JETT - Jetting				Comments																			
Tide		Flood																							
Source Location		B176																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		022019-JETT-F-U											022019-JETT-F-D												
Sample Time		12:22											12:09												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	57.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	97.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	M	96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	114	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

- 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
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom
  - 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		02/26/2019																						
Survey Type		V - Vessel Based																						
Construction Activity		JETT - Jetting				Comments																		
Tide		Ebb																						
Source Location		B176																						
Sample Location	Upcurrent (Ambient)												Downcurrent											
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID	022619-JETT-E-U												022619-JETT-E-D											
Sample Time	11:04												10:51											
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	132	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	114	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	M	129	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	150	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	133	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	140	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

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

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- 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

NR = Not Required for these parameters, due to approval of reduced monitoring as of 2/14/2019, pursuant to Condition 64 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

Survey Date		02/26/2019																						
Survey Type		V - Vessel Based																						
Construction Activity		DBRI - Debris Removal					Comments																	
Tide		Ebb																						
Source Location		B188																						
Sample Location	Upcurrent (Ambient)											Downcurrent												
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>											200 ft <sup>2</sup>												
Sample ID	022619-DBRI-E-U											022619-DBRI-E-D												
Sample Time	10:03											09:51												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	117	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	131	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	NS											NS											

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 as close to turbidity curtain as practicable

3 Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- 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

NR = Not Required for these parameters, due to approval of reduced monitoring as of 2/14/2019, pursuant to Condition 64 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

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		02/27/2019																						
Survey Type		V - Vessel Based																						
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																		
Tide		Ebb																						
Source Location		B50																						
Sample Location	Upcurrent (Ambient)												Downcurrent											
Distance to Source	Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>											
Sample ID	022719-TIP1-E-U												022719-TIP1-E-D											
Sample Time	12:55												12:30											
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	30.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	55.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	NS												NS										

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

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

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NR = Not Required for these parameters, due to approval of reduced monitoring as of 2/14/2019, pursuant to Condition 64 of NYSDEC Permit Facility ID 3-9903-00043/00012-14

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		02/27/2019																							
Survey Type		V - Vessel Based																							
Construction Activity		SIDI - Silt Displacement				Comments																			
Tide		Ebb																							
Source Location		B172																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		022719-SIDI-E-U											022719-SIDI-E-D												
Sample Time		11:56											11:37												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	35.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	51.6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	M	45.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	48	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	45	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	54.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

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

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- 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		02/28/2019																								
Survey Type		V - Vessel Based																								
Construction Activity		SIDI - Silt Displacement				Comments																				
Tide		Ebb																								
Source Location		B172																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>												500 ft <sup>2</sup>												
Sample ID		022819-SIDI-E-U												022819-SIDI-E-D												
Sample Time		10:52												10:32												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	30	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	29.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	M	54	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	35.7	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	B	67	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	54.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

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

4 S = Near Surface, M = Mid-Depth, B = Near Bottom

-- No detection limit or water quality standard

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Survey Date		02/28/2019																							
Survey Type		V - Vessel Based																							
Construction Activity		TIPC - Timber Pile Cap Foundation Removal				Comments																			
Tide		Ebb																							
Source Location		B52																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft <sup>1</sup>											500 ft <sup>2</sup>												
Sample ID		022819-TIPC-E-U											022819-TIPC-E-D												
Sample Time		10:06											09:58												
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	0.07	3.7	2.6	1.8	5.6	0.2	0.2	0.2	0.2	--	0.1	Ambient + 100	0.07	3.7	2.6	1.8	5.6	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	31.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	47.2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	B	NS											NS												

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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.