

Date		08/28/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging			Comments																				
Tide		Flood																							
Source Location		Decant Operations																							
Sample Location		Upcurrent (Ambient)						Downcurrent																	
Distance to Source		Approx. 500 - 1000 ft ¹						500 ft ²																	
Sample ID		082813-D211-F-U						082813-D211-F-D																	
Sample Time		13:45						13:31																	
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 ³	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 ³	*	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 ⁴	S	24.0	ND	ND	3.9	ND	11	ND	ND	ND	ND	ND	ND	26.0	ND	ND	4.0	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	35.0	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.0	ND	ND	3.8	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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		08/29/2013																						
Survey Type		V - Vessel Based																						
Construction Activity		DRR - Dredging					Comments																	
Tide		Ebb																						
Source Location		Dredge 506																						
Sample Location		Upcurrent (Ambient)											Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²											
Sample ID		082913-D506-E-U											082913-D506-E-D											
Sample Time		11:49											11:35											
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 ³	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 ³	*	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 ⁴	S	27.0	ND	ND	3.7	ND	12	ND	ND	ND	ND	ND	28.0	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	22.0	ND	ND	3.6	ND	13	ND	ND	ND	ND	ND	ND	24.0	ND	ND	3.9	ND	18	ND	ND	ND	ND	ND

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Date		08/30/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging						Comments																		
Tide		Ebb																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		083013-D506-E-U												083013-D506-E-D												
Sample Time		13:13												13:27												
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 ³	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 ³	*	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 ⁴	S	17.0	ND	ND	3.6	ND	12	ND	ND	ND	ND	ND	28.0	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	15.0	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	40.0	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND	

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Date		08/30/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging						Comments																		
Tide		Flood																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		083013-D506-F-U												083013-D506-F-D												
Sample Time		14:35												14:44												
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 ³	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 ³	*	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 ⁴	S	21.0	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	19.0	ND	ND	3.7	ND	13	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	46.0	ND	ND	3.5	ND	11	ND	ND	ND	ND	ND	ND	19.0	ND	ND	3.5	ND	10	ND	ND	ND	ND	ND	ND	

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		083013-D551-E-U											083013-D551-E-D												
Sample Time		12:04											12:17												
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 ³	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 ³	*	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 ⁴	S	NS											NS												
	M	24.0	ND	ND	3.5	ND	12	ND	ND	ND	ND	ND	ND	24.0	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND
	B	NS											NS												

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)										Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹										500 ft ²													
Sample ID		083013-D551-F-U										083013-D551-F-D													
Sample Time		15:16										15:24													
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 ³	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 ³	*	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 ⁴	S	NS										NS													
	M	27.0	ND	ND	3.4	ND	13	ND	ND	ND	ND	ND	ND	27.0	ND	ND	3.6	ND	12	ND	ND	ND	ND	ND	ND
	B	NS										NS													

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Date		08/31/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging						Comments																		
Tide		Ebb																								
Source Location		Decant Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		083113-D211-E-U												083113-D211-E-D												
Sample Time		10:19												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 ³	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 ³	*	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 ⁴	S	24	ND	ND	4.1	ND	12	ND	ND	ND	ND	ND	27	ND	ND	5.6	ND	13	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	24	ND	ND	4.1	ND	14	ND	ND	ND	ND	ND	ND	24	ND	ND	4.7	ND	12	ND	ND	ND	ND	ND	ND	

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Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Ebb																							
Source Location		Dredge 506																							
Sample Location		Upcurrent (Ambient)												Downcurrent											
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²											
Sample ID		083113-D506-E-U												083113-D506-E-D											
Sample Time		11:13												11:31											
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 ³		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 ³		*	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 ⁴	S	27	ND	ND	5.9	ND	12	ND	ND	ND	ND	ND	ND	43	ND	ND	5.2	ND	11	ND	ND	ND	ND	ND	ND
	M	NS												NS											
	B	23	ND	ND	5.0	ND	12	ND	ND	ND	ND	ND	ND	ND	46	ND	ND	5.0	ND	12	ND	ND	ND	ND	ND

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 - ⁵ Upcurrent (ambient) concentration exceeds the Water Quality Standard, Downcurrent concentration is less than 30% over background.

Date		08/31/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging						Comments																		
Tide		Flood																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		083113-D506-F-U												083113-D506-F-D												
Sample Time		7:23												7:09												
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 ³	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 ³	*	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 ⁴	S	28	ND	ND	5.1	ND	17	ND	ND	ND	ND	ND	ND	38	ND	ND	4.9	ND	9.7	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	30	ND	ND	5.7	ND	11	ND	ND	ND	ND	ND	ND	64	ND	ND	5.9	ND	15	ND	ND	ND	ND	ND	ND	

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Date		09/01/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Ebb																								
Source Location		Decant Operations																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		090113-D211-E-U												090113-D211-E-D												
Sample Time		13:22												13:07												
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 ³	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 ³	*	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 ⁴	S	20.0	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	27.0	ND	ND	3.3	ND	12	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	30.0	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	ND	24.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	

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Construction Activity		DRR - Dredging					Comments																			
Tide		Ebb																								
Source Location		Dredge 551																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		090113-D551-E-U												090113-D551-E-D												
Sample Time		12:19												12:29												
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 ³	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 ³	*	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 ⁴	S	NS												NS												
	M	28.0	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	27.0	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	
	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
 - 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.
 - ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/02/2013																						
Survey Type		V - Vessel Based																						
Construction Activity		DRR - Dredging			Comments																			
Tide		Flood																						
Source Location		Decant Operations																						
Sample Location		Upcurrent (Ambient)						Downcurrent																
Distance to Source		Approx. 500 - 1000 ft ¹						500 ft ²																
Sample ID		090213-D211-F-U						090213-D211-F-D																
Sample Time		18:21						18:30																
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 ³	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 ³	*	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 ⁴	S	26.0	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	28.0	ND	ND	3.4	ND	11	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	39.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	39.0	ND	ND	3.1	ND	13	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.
⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/02/2013																								
Survey Type		V - Vessel Based																								
Construction Activity		DRR - Dredging					Comments																			
Tide		Ebb																								
Source Location		Dredge 506																								
Sample Location		Upcurrent (Ambient)												Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹												500 ft ²												
Sample ID		090213-D506-E-U												090213-D506-E-D												
Sample Time		14:02												14:14												
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 ³	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 ³	*	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 ⁴	S	34.0	ND	ND	3.7	ND	14	ND	ND	ND	ND	ND	32.0	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	ND		
	M	NS												NS												
	B	37.0	ND	ND	3.5	ND	16	ND	ND	ND	ND	ND	ND	35.0	ND	ND	3.5	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.
 - ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/02/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 506																							
Sample Location		Upcurrent (Ambient)										Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹										500 ft ²													
Sample ID		090213-D506-F-U										090213-D506-F-D													
Sample Time		09:36										09:18													
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 ³		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 ³		*	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 ⁴	S	15.0	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	ND	62.0	ND	ND	3.3	ND	16	ND	ND	ND	ND	ND	ND
	M	NS										NS													
	B	29.0	ND	ND	3.1	ND	13	ND	ND	ND	ND	ND	ND	203	ND	ND	3.4	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.
⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/02/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		090213-D551-E-U											090213-D551-E-D												
Sample Time		12:31											12:41												
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 Limit³		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 Standard³		*	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 Result⁴	S	NS											NS												
	M	30.0	ND	ND	3.3	ND	14	ND	ND	ND	ND	ND	ND	28.0	ND	ND	3.3	ND	16	ND	ND	ND	ND	ND	ND
	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
 - 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.
 - ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/02/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)										Downcurrent													
Distance to Source		Approx. 500 - 1000 ft ¹										500 ft ²													
Sample ID		090213-D551-F-U										090213-D551-F-D													
Sample Time		10:00										10:12													
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 ³		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 ³		*	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 ⁴	S	NS										NS													
	M	26.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	54.0	ND	ND	3.3	ND	14	ND	ND	ND	ND	ND	ND
	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
 - 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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Date		09/03/2013																						
Survey Type		V - Vessel Based																						
Construction Activity		DRR - Dredging					Comments																	
Tide		Flood																						
Source Location		Dredge 506																						
Sample Location		Upcurrent (Ambient)										Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹										500 ft ²												
Sample ID		090313-D506-F-U										090313-D506-F-D												
Sample Time		09:52										09:33												
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 ³	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 ³	*	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 ⁴	S	23.0	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	46.0	ND	ND	3.0	ND	11	ND	ND	ND	ND	ND	ND
	M	NS										NS												
	B	32.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	61.0	ND	ND	ND	ND	13	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.
⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/04/2013																						
Survey Type		V - Vessel Based																						
Construction Activity		DRR - Dredging			Comments																			
Tide		Flood																						
Source Location		Dredge 506																						
Sample Location		Upcurrent (Ambient)						Downcurrent																
Distance to Source		Approx. 500 - 1000 ft ¹						500 ft ²																
Sample ID		090413-D506-F-U						090413-D506-F-D																
Sample Time		10:43						10:28																
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 ³	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 ³	*	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 ⁴	S	21.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	44.0	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND
	M	NS											NS											
	B	30.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	43.0	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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/05/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge 506																							
Sample Location	Upcurrent (Ambient)											Downcurrent													
Distance to Source	Approx. 500 - 1000 ft ¹											500 ft ²													
Sample ID	090513-D506-E-U											090513-D506-E-D													
Sample Time	17:37											17:29													
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 Limit³	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 Standard³	*	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 Result⁴	S	NS											NS												
	M	70.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	84.0	ND	ND	ND	3.7	16	ND	ND	ND	ND	ND	ND
	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
 - 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.
 - ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/05/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging				Comments																			
Tide		Ebb																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		090513-D551-E-U											090513-D551-E-D												
Sample Time		17:04											17:13												
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 ³	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 ³	*	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 ⁴	S	NS											NS												
	M	60.0	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	55.0	ND	ND	ND	ND	25	ND	ND	ND	ND	ND	ND
	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
- 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.

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

Survey Date		09/06/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Decant Operations																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		090613-D211-F-U											090613-D211-F-D												
Sample Time		09:39											09:22												
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 ³	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 ³	*	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 ⁴	S	53.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	51.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	74.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	54.0	ND	ND	ND	ND	16	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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/06/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 506																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		090613-D506-F-U											090613-D506-F-D												
Sample Time		10:16											10:37												
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 ³		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 ³		*	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 ⁴	S	61.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	81.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	M	NS											NS												
	B	71.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	93.0	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.
- ⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom

Survey Date		09/06/2013																							
Survey Type		V - Vessel Based																							
Construction Activity		DRR - Dredging					Comments																		
Tide		Flood																							
Source Location		Dredge 551																							
Sample Location		Upcurrent (Ambient)											Downcurrent												
Distance to Source		Approx. 500 - 1000 ft ¹											500 ft ²												
Sample ID		090613-D551-F-U											090613-D551-F-D												
Sample Time		10:59											11:12												
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 Limit³		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 Standard³		*	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 Result⁴	S	NS											NS												
	M	47.0	ND	ND	3.1	ND	14	ND	ND	ND	ND	ND	ND	41.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	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
 - 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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⁴ S = Near Surface, M = Mid-Depth, B = Near Bottom