	Surve	ey Date												03/01/	2014										
	Surve	у Туре												V - Vesse	el Based										
C	PDC	- Pile	Driving	ı - Zone C		Com	ments																		
	Ti	ide												Eb	b										
		Location												Pier	31										
Sample Location						Upc	urrent (Am	nbient)	)									l	Downcur	rent					
Distance to Source						Арр	rox. 500 - 1	000 ft <sup>1</sup>											500 ft <sup>2</sup>	2					
Samp	ole ID					03	0114-P031	-E-U										03	0114-P03	31-E-D					
Sample	e Time																	12:24							
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(p	pb)						(ppm)					. (	(ppb)					
Detectio	n 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 (		*	0.0007	8.2	5.6	8.0	66		-			16	0.0006	*	0.0007	8.2	5.6	8.0	66				ı	16	0.0006
esult4	S	34.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	28.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	46.4	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	
Anal)	В	44.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	52.0	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surv	ey Date												03/10	)/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity	,	ARM -	Armori	ng		Com	nents															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca	tion					Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distar Sou		Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samp	ole ID	031014-A263-F-U																03	1014-A26	3-F-D					
Sample	e Time		15:23																15:39	1					
		рәрі						- 2				ne	eue.	papu						-	T	CB	١٥	ne	ene
Darameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)					•	(ppm)						(ppb)					
Detectio	n 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 (	-	*	0.0007	8.2	5.6	8.0	66		-		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66			-		16	0.0006
esult⁴	S	13.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	9.60	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	59.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	15.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

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>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surv	ey Date												03/10/	2014										
	Surve	у Туре												V - Vesse	l Based										
С	PDC	- Pile	Driving	g - Zone C		Com	nents																		
		ide												Eb											
		Location												Pier	32										
Sample Location						Upc	urrent (Am	bient)										I	Downcuri	rent					
Distance to Source						Арр	rox. 500 - 1	000 ft <sup>1</sup>											500 ft <sup>2</sup>	2					
Samp	ole ID					03	31014-P032	-E-U										03	1014-P03	2-E-D					
Sample	e Time		_				15:05								_				14:40						
Daramotor		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(p	pb)						(ppm)					(	ppb)					
Detectio	on Limit <sup>3</sup>	Ambient +	0.05				-	0.2	0.2	0.2	0.2		0.1	Ambient +	0.05				1	0.2	0.2	0.2	0.2		0.1
Water (		*	0.0007	8.2	5.6	8.0	66	ı	ı		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006
esult <sup>4</sup>	S 12.4 ND ND ND ND 14 ND ND ND									ND	ND	ND	13.6	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	
Analytical Result <sup>4</sup>	М	10.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	16.8	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
Anal	В	12.4 ND												22.8	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/10	/2014										
	Surve	у Туре												V - Vess	el Based										
Construction Activity Tide					- Pile I	Driving	- Zone C		Com	nents															
														Flo											
		Location												Pier	r 32										
Sample Location						Upcı	urrent (An	nbient	)										Downcur	rent					
Distar Sou						Appr	ox. 500 - 1	000 ft	ı										500 ft <sup>2</sup>	2					
Samp	le ID	031014-P032-F-U															03	1014-P03	32-F-D						
Sample	e Time		031014-P032-F-U 16:57																16:35						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit .						(r	pb)	Ā	Ā	Ā	_	B							(ppb)	Ā	Ā	Ā	_	B
- 61	iit.	(ppm)					()	,pb)						(ppm)					\	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	ı	I	ı	1	0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05		-		I	0.2	0.2	0.2	0.2	ı	0.1
Water (		*	0.0007	8.2	5.6	8.0	66	-	-	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006
esult4	s	8.00	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	7.60	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Result⁴										ND	ND	ND	ND	10.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
Analy	В	21.2	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

ND = Not Detected

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surve	ey Date												03/11	1/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstructi	ion Activi	ty		ARM -	Armori	ng		Com	ments															
		ide													bb										
		Location												Armoring	Operation	IS									
Sam Loca			Upcurrent (Ambient)  Approx. 500 - 1000 ft <sup>1</sup>															I	Downcur	rent					
Distar Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2					
Samp	ole ID	031114-A263-E-U																03	1114-A26	3-E-D					
Sample	e Time		10:10																09:53						
		pel							P	СВ		0	ne	ped							P	СВ		0	ne
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	(ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05			ı		0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05	ı	ı	ı	I	0.2	0.2	0.2	0.2	1	0.1
Water 6	,	*	0.0007	8.2	5.6	8.0	66		-			16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esulf⁴	s	8.40 ND ND ND ND 15 ND ND ND ND ND ND ND ND											ND	10.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		ns																NS						
Anal	В	25.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	18.4	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND

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>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

 $<sup>^{\</sup>rm 2}$  Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surve	ey Date												03/11	/2014										
	Surve	у Туре												V - Vess	el Based										
Survey Type  Construction Activity  Tide				PDC	- Pile [	Oriving	- Zone C		Com	ments															
Source Location Sample													Flo												
Sample														Pie	r 32										
						Upcı	ırrent (An	nbient	)										Downcur	rent					
Distar Sou						Appro	ox. 500 - 1	1000 ft	1										500 ft <sup>2</sup>	2					
Samp	ole ID					031	114-P032	2-F-U										03	1114-P03	32-F-D					
Sample	e Time		_				08:42								_				08:18						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(1	opb)						(ppm)						(ppb)					
Detectio	n 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 (	,	* 0.0007 8.2 5.6 8.0 66									-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006
\$ 7.20 ND					ND	ND	12	ND	ND	ND	ND	ND	ND	11.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М	13.2	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	12.8	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
Anal	В	17.6	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	22.8	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	ey Date												03/12	2/2014										
	Surve	у Туре												V - Vess	sel Based										
С		ion Activ	ity		ARM -	Armori	ng		Comi	ments															
		ide												E	bb										
		Location												Armoring	Operation	ns									
Sample Location						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distance to Source						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID				031	214-A26	3-E-U										03	1214-A26	3-E-D						
Sample	e Time		11:06 PCB																10:45						
Darameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	r 1242	1		r 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	r 1242	T	r 1254	r 1260	Naphthalene	Benzo(a)pyrene
Dara	2	Total Su Sc	Me	Ž	ပိ	Ļ	Z	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naph	Benzo(	Total St Sc	Me	Ź	တ	ĭ	Z	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naph	Benzo(
Ur	nit	(ppm)			_		(	ppb)						(ppm)					(	(ppb)					
Detectio	on Limit <sup>3</sup>	Ambient + 100	0.05				ı	0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05		ı			0.2	0.2	0.2	0.2	ı	0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	-			ı	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-			ı	16	0.0006
esult <sup>4</sup>	s	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	10.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Analy	В	5.20	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	9.20	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND

- 1 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

	Surv	ey Date												03/12	2/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												FI	ood										
		Location												Armoring	Operation	ns									
Loca	nple ation					Upcu	rrent (A	mbient	:)									l	Downcur	rent					
	nce to ırce	Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2						
Samı	ole ID		031214-A263-F-U															03	1214-A26	3-F-D					
Sampl	e Time						8:25												8:44						
rotomored	rai alletei	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)					(	ppb)						(ppm)						(ppb)					
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05			ı	-	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	ı	ı	ı	-1	0.2	0.2	0.2	0.2	-	0.1
Water Stand	,	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006	*	0.0007	8.2	5.6	8.0	66				1	16	0.0006
esul∉	s	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	5.20	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М		NS																NS						
Anal	В	10.8	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND

- 1 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

	Surv	ey Date												03/17	7/2014										
	Surve	у Туре												V - Vess	sel Based										
C	Construct	ion Activi	ity		ARM -	Armori	ng		Com	ments															
Tide Source Location														Fl	ood										
											Armoring	Operation	is .												
Sample Location						Upcu	rrent (A	mbient	t)										Downcur	rent					
	nce to urce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Sam	ple ID					031	714-A26	3-F-U										03	31714-A26	3-F-D					
Sampl	le Time						10:49												10:29						
	Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
U	nit	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05				1	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05			-		0.2	0.2	0.2	0.2	1	0.1
	Quality dard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-			16	0.0006	*	0.0007	8.2	5.6	8.0	66			-	1	16	0.0006
esul <sup>¢</sup>	s	44.0 ND ND ND ND 21 ND ND ND ND ND ND ND ND									65.6	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND			
Analytical Resul <sup>∉</sup>	М				NS												NS								
Anal	В	86.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	76.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/17	/2014										
Survey Type  Construction Activity  Tide														V - Vess	el Based										
С	ty	PDC	- Pile I	Oriving	- Zone C		Com	ments																	
Sample Location Distance to Source Sample ID														Et											
		Location												Pier	r 32										
						Upc	urrent (An	nbient)	)										Downcur	rent					
						Appr	ox. 500 - 1	1000 ft <sup>1</sup>	1										500 ft <sup>2</sup>	2					
Samp	ole ID					03	1714-P032	2-E-U										03	1714-P03	32-E-D					
Sample	e Time						14:36												14:09						
Doromotor	a a a a a a a a a a a a a a a a a a a	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(1	opb)		I		I		(ppm)					(	(ppb)					
Detectio	n 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 (	,	*	0.0007	5.6	8.0	66		-	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-				16	0.0006	
ssult⁴	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	24.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND			
Analytical Result⁴	М	44.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	25.6	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Anal	В	32.4	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	27.6	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND

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>&</sup>lt;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

 $<sup>^{\</sup>rm 2}$  Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surve	ey Date												03/18	3/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstructi	ion Activi	ity		ARM -	Armori	ng		Com	nents															
		ide													bb										
		Location												Armoring	Operation	ns									
Sam Loca						Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distar Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	!					
Samp	ole ID	031814-A263-E-U																03	1814-A26	3-E-D					
Sample	e Time						15:05												14:41						
		þək							P	СВ		ω	ne	pek							PO	СВ		ø	ne
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)						(ppm)					(	ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	1	I	1	-	0.2	0.2	0.2	0.2	1	0.1
Water (	,	*	0.0007	8.2	5.6	8.0	66	-	-	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	1		-	ı	16	0.0006
esulf <sup>4</sup>	s	22.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	44.4	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analı	В	18.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	ey Date												03/18	3/2014										
	Surve	у Туре												V - Vess	sel Based										
Construction Activity Tide Source Location				PDC -	- Pile D	riving -	Zone C		Com	ments															
												E	bb												
		Location												Pie	er 31										
Sample Location						Upcu	rrent (A	mbient	:)									ı	Downcur	rent					
Distai Sou						Appro	x. 500 -	1000 ft	1										500 ft <sup>2</sup>	2					
Samp	ole ID					031	814-P03	1-E-U										03	1814-P03	1-E-D					
Sampl	e Time						16:20												15:50						
	5	papua	_					22		ZB	9	eue	rene	papua						- 73		ZB	9	ene	rene
rotomored	במוופה	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detection	on 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 (	,	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult⁴	s	10.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	15.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М	16.4	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Anal	В	34.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	21.6	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND

## ND = Not Detected

<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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surve	ey Date												03/19	9/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activ	ity		ARM -	Armori	ing		Comi	ments															
		ide												E	bb										
		Location												Armoring	Operation	ns									
Sam Loca						Upcu	rrent (A	mbien	t)									ļ	Downcur	rent					
Distar Sou						Appro	эх. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					031	914-A26	3-E-U										03	1914-A26	3-E-D					
Sample	e Time						14:54												14:40						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	1242	1248		1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	1242	1	1254 B	1260	Naphthalene	Benzo(a)pyrene
Para	B -	Total Su So	Mer	Nio	Cop	Le	ΙΖ	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a	Total Su So	Mer	Nio	doo	Эη	ΙΖ	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a
Ur	nit	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detectio	on Limit <sup>3</sup>	Ambient + 100	0.05				ı	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05		ı	-		0.2	0.2	0.2	0.2	-	0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	-			ı	16	0.0006	*	0.0007	8.2	5.6	8.0	66		-		ı	16	0.0006
esulf <sup>4</sup>	s	26.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	25.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Analy	В	37.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	27.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	ey Date												03/19	9/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	nents															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	าร									
Sam Loca						Upcu	rrent (A	mbien	t)									1	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					031	914-A26	3-F-U										03	1914-A26	3-F-D					
Sample	e Time		_				10:13								_				09:56						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)					•	(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05			-		0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05		1	ı	-	0.2	0.2	0.2	0.2	1	0.1
Water (	,	*	0.0007	8.2	5.6	8.0	66	•	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	1	ı	16	0.0006
esulf <sup>4</sup>	s	23.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	36.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analı	В	34.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	48.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- <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

	Surve	ey Date												03/19/	/2014										
	Surve	у Туре												V - Vesse	el Based										
С	onstructi	ion Activi	ity	PDC	- Pile l	Driving	- Zone C		Com	ments															
	Т	ide												Eb	b										
		Location												Pier	31										
Source Location  Sample Location  Distance to Source  Sample ID  Sample Time  Wercury  Wercury  Source  Sample Time						Upcı	ırrent (Am	nbient)	)									ļ	Downcuri	rent					
				Appr	ox. 500 - 1	000 ft <sup>1</sup>	I										500 ft <sup>2</sup>	2							
Samp	ole ID					03′	1914-P031	-E-U										03	1914-P03	1-E-D					
Sample	e Time	_	_				08:46								_				08:14						
Darameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(p	pb)						(ppm)					(	ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05				ı	0.2	0.2	0.2	0.2		0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
\$ 13.6 ND				ND	ND	ND	13	ND	ND	ND	ND	ND	ND	39.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
ytical Re	S         13.6         ND           M         45.6         ND           B         82.0         ND				ND	ND	14	ND	ND	ND	ND	ND	ND	40.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В	82.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	ey Date												03/19	/2014										
	Surve	у Туре												V - Vess	el Based										
С	onstructi	ion Activi	ty	PDC	- Pile I	Oriving	- Zone C		Com	nents															
	Т	ide												Flo	od										
		Location												Pier	31										
San Loca	•					Upcı	urrent (An	nbient)	)										Downcur	rent					
Distar Sou						Appr	ox. 500 - 1	000 ft <sup>1</sup>	1										500 ft <sup>2</sup>	2					
Samp	ole ID					03	1914-P031	-F-U										03	1914-P03	31-F-D					
Sample	e Time						10:56												10:30						
Doromotor	מומוננפ	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(r	ppb)						(ppm)						(ppb)					
Detectio	on Limit <sup>3</sup>	Ambient + 100	0.05			-		0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		1			0.2	0.2	0.2	0.2	1	0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	-		-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-		-		16	0.0006
esul∉	s	14.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М	34.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	28.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Anal	В	123	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	50.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

<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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/20	)/2014										
	Surve	у Туре												V - Vess	sel Based										
C	onstructi	ion Activi	ty		ARM -	Armori	ng		Com	nents															
		ide												E	bb										
		Location												Armoring	Operation	ıs									
Sam Loca						Upcu	rrent (A	mbient	)									ı	Downcuri	rent					
Distan Sou						Appro	x. 500 -	1000 ft	1										500 ft <sup>2</sup>	2					
Samp	le ID					032	014-A26	3-E-U										03	2014-A26	3-E-D					
Sample	Time	_	_				08:49								_				08:30						
		pə							P	СВ		o)	ne	pel							P	СВ		ø.	ne
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)					(	(ppb)						(ppm)					(	(ppb)				•	
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05			1	1	0.2	0.2	0.2	0.2	1	0.1	Ambient + 100	0.05	1	1	1	ı	0.2	0.2	0.2	0.2	1	0.1
Water 0	,	*	0.0007	8.2	5.6	8.0	66		-	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	-		1	-	16	0.0006
esult⁴	s	39.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	71.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	41.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	118	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND

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>1</sup> Samples collected at a location up current of the source where the water quality effects of the project are no longer discernible

 $<sup>^{\</sup>rm 2}$  Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> None from sewage, industrial waste or other wastes that will cause deposition or impair the waters for their best usages

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

	Surv	ey Date												03/20	0/2014										
	Surve	у Туре												V - Vess	sel Based										
C	Construct	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	is .									
	nple ation					Upcu	rrent (A	mbient	t)										Downcur	rent					
	nce to urce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Sam	ple ID					032	014-A26	3-F-U										03	2014-A26	3-F-D					
Sampl	le Time						10:54												10:37						
·	Parameter	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
U	nit	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05				1	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		1			0.2	0.2	0.2	0.2	-	0.1
	Quality dard <sup>3</sup>	*	0.0007	8.2	5.6	8.0	66	-	-			16	0.0006	*	0.0007	8.2	5.6	8.0	66			-	1	16	0.0006
esulf	s	18.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	34.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М						NS												NS						
Anal	В	34.8	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	38.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

- <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

	Surve	ey Date												03/21	/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activ	ity	4	ARM -	Armori	ng		Com	nents															
	Т	ide												Flo	ood										
		Location												Armoring	Operation	าร									
Sam Loca	ition					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					032	114-A26	3-F-U										03	2114-A26	3-F-D					
Sample	e Time						12:00												12:13						
Daramotor		al Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
		Total							Arc	Arc	Arc	Z	Ber								Arc	Arc	Arc	Ż	Ber
Ur	nit	(ppm)		1			(	ppb)		1				(ppm)					· · · · · · · ·	(ppb)		1	1		I
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05					0.2	0.2	0.2	0.2	ł	0.1	Ambient + 100	0.05	I	I	I		0.2	0.2	0.2	0.2	I	0.1
Water (		*	0.0007	8.2	5.6	8.0	66		-		-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esult <sup>4</sup>	s	36.4	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	41.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М						NS												NS						
Anal	В	40.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	41.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/24	1/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Comi	ments															
	Т	ide												E	bb										
		Location												Armoring	Operation	าร									
Sam Loca						Upcu	rrent (Aı	mbien	t)									I	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					032	414-A26	3-E-U										03	2414-A26	3-E-D					
Sample	e Time		_				11:01								_				10:50						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit						,	ppb)	Ā	Ā	Ā		Ř							ppb)	Ā	Ā	Ā	_	Ä
Detectio		Ambient + dd	0.05	-				0.2	0.2	0.2	0.2	-	0.1	Ambient + dd dd	0.05		-	-		0.2	0.2	0.2	0.2		0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	1	16	0.0006
esult <sup>4</sup>	s	38.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	90.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Analı	В	40.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	78.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

<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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/24	1/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstructi	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												Fl	ood										
		Location												Armoring	Operation	ns									
San Loca	tion					Upcu	rrent (A	mbien	t)										Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2					
Samı	ole ID					032	414-A26	3-F-U										03	32414-A26	3-F-D					
Sampl	e Time						15:21												15:07						
rotomer and		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
									Aro	Aro	Aro	ž	Ben							, i	Aro	Aro	Aro	ž	Ben
Uı	nit	(ppm)				1	(	(ppb)					ı	(ppm)					ı	(ppb)					
Detection	n 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 Stand	-	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
esul∉	s	44.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	38.8	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М	NS NS																NS							
Anal	В	46.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	61.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	y Date												03/25	/2014										
	Surve	у Туре												V - Vess	el Based										
C		on Activi	ty		ARM -	Armori	ng		Comr	nents															
		ide													bb										
		Location												Armoring	Operation	S									
Sam Loca						Upcu	rrent (Aı	mbient	)									- 1	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 ft	.1						1925				500 ft	2					
Samp	le ID		- 54 E.			032	514-A26	3-E-U										03	2514-A26	3-E-D		200			
Sample	Time						10:19												10:02						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Arocior 1248	Aroclor 1254	Arocior 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)		l				ppb)	l					(ppm)		<b>.</b>				(ppb)		<u> </u>			
Detectio	n 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 (		*	0.0007	8.2	5.6	8.0	66	-		-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-		16	0.0006
ssulf	s	32.0	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	20.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resulf	М						NS												NS						
Analy	В	65.2	ND	NĐ	ND	ND	12	ND	ND	ND	ND	ND	NĐ	19.6	NĐ	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	y Date											<del></del>	03/25	/2014					- 12/					
	Surve	у Туре												V - Vess	sel Based										
C	onstructi	on Activi	ty		ARM -	Armori	ng		Com	ments															
	T	ide												Fl	ood										
		Location										-		Armoring	Operation	ıs							-		
Sam Loca	0.00000					Upcu	rrent (Aı	nbient	:)									Ì	Downcur	rent					
Distan Sou	2 (2) (2)		02720			Appro	x. 500 -	1000 ft	1										500 ft <sup>2</sup>	2					
Samp	le ID					032	514-A26	3-F-U										03	2514-A26	3-F-D					
Sample	Time						15:01												14:45						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	1242		1254 B	1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	1242	1248		1260	Naphthalene	Benzo(a)pyrene
Para		Total Sur Sol	Merc	Nic	СO	Le	ΙΖ	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a	Total Su Sol	Mer	Nio	Сор	<b>9</b> 7	1Z	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Napht	Benzo(a
Ur	rit	(ppm)					(	ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	ı	_	1	ı	0.2	0.2	0.2	0.2	1	0.1	Amblent + 100	0.05		-	1	-	0.2	0.2	0.2	0.2	-	0.1
Water (		•	0.0007	8.2	5.6	8.0	66	1	-	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	1	1	16	0.0006
ssuif	s	38.0	ND	ND	ND	ND	ND	ND	ND	ND	NĐ	ND	ND	56.0	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Analytical Resulf	M	200			2079		NS						717						NS					<del></del>	
Analy	В	33.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.2	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

- 1 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.
  - 4 S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	y Date												03/25	/2014			THOUSAND .							
	Surve	у Туре												V - Vess	el Based										
Co	onstructi	on Activit	ly	PDC	- Pile [	Oriving -	Zone C		Comr	nents															
		de												Flo											
-		Location								M-r-				Pier	32										
Sam Locat						Upcu	rrent (An	nbient)	i .									1	Downcur	rent					
Distan: Sour						Appro	ox. 500 - 1	000 ft <sup>1</sup>		-			200.00						500 ft	2					
Samp	le ID					032	514-P032	?-F-U										03	2514-P03	32-F-D				-	
Sample	Time						17:38												17:11						
Parameter	Variable (Control of the Control of	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Arocior 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254 @	Arocior 1260	Naphthalene	Benzo(a)pyrene
Un	it	(ppm)					(1	pb)						(ppm)					ļ	(ppb)					
Detection	n Limit <sup>3</sup>	Ambient + 100	0.05	1	-	-	_	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 C Stand		*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	•	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006
sulf	s	10.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	CN	38.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Resulf	М	16.4	10.4 ND ND ND ND 16 ND									ND	ND	17.6	ND	NO	ND	ND	18	ND	ND	ND	ND	ND	ND
Analy	В	52.0	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	119	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND

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

		y Date												03/26	3/2014										
		у Туре												V - Vess	el Based										
С		on Activi	ty		ARM -	Armori	ng		Com	nents							,								
		ide													bb										
		Location		<u> </u>										Armoring	Operation	5									.,
Sam Loca						Upcu	rrent (Aı	mbient	)									l	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 ft	1									63-800	500 ft <sup>2</sup>	ł					
Samp	ole ID				2 12	032	614-A26	3-E-U		-					E 333855			03	2614-A26	3-E-D					
Sample	Time						09:53												09:37						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)						(ppm)						(ppb					
Detectio	n Limit³	Ambient +	0.05	-	_	-	•	0.2	0.2	0.2	0.2	1	0.1	Amblent + 100	0.05	1	ı	1		0.2	0.2	0.2	0.2	-	0.1
Water (			0.0007	8.2	5.6	8.0	66	-		-	1	16	0.0006	*	0.0007	8.2	5.6	8.0	66	_	-	-		16	0.0006
sulf	s	21.2	ND	ND	ND	ND	12	ND	NĐ	ND	ND	ND	NĐ	41.6	NO	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analytical Resulf	М	NS																	NS						
Analy	В	28.8	28.8 ND ND ND ND 13 ND ND ND ND ND ND											50.8	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

- <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

	Surve	y Date												03/26	3/2014							<del></del>			
	Surve	у Туре												V - Vess	sel Based	st.									
C	onstructi	on Activi	ty		ARM -	Armori	ng		Comi	ments															
		ide	a												ood										
		Location												Armoring	Operation	ns									
Sam Loca						Upcu	rrent (A	mbien	t)									]	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2					
Samp	ole ID					032	614-A26	3-F-U										03	2614-A26	3-F-D					
Sample	e Time						8:11												8:29						
To Go		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Arocior 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)		L			- (	ppb)		ļ.,			l	(ppm)		l				(ppb)			I		-
Detection	-	_	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient +	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1			
Water 6			0.0007	8.2	5.6	8.0	66	-	-	_	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006
soif.	s	10.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	23.6	ND	ND	ND	ND	12	NE)	ND	ND	ND	ND	ND
Analytical Resulf	М						NS												NS						
Analy	ND	ND	NĐ	12	ND	ND	ND	ND	ND	ND	26.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	NO			

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

	Surve	y Date												03/27	//2014										
	Surve	у Туре											***************************************	V - Vess	el Based										
C	onstructi	on Activi	ty		ARM -	Armori	ng		Com	nents															
_		de													bb										
		Location												Armoring	Operation	\$							=:-		
Sam Loca						Upcu	rrent (Ar	nbient	)										Downcun	rent					
Distar Sou						Appro	x. 500 -	1000 ft	1										500 ft <sup>2</sup>						
Samp	le ID					032	714-A26	3-E-U										03.	2714-A26	3-E-D					
Sample	Time						10:14					(2)							10:28						
		per							P	СВ			2	pej							P	В			2
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Arocior 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	uit	(ppm)						ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	-	-	1	1	0.2	0.2	0.2	0.2	1	0.1	Amblent + 100	0.05	_	1	1	-	0.2	0.2	0.2	0.2	1	0.1
Water (		•	0.0007	8.2	5.6	8.0	66	1	-	-	1	16	0.0006	•	0.0007	8.2	5,6	8.0	66	-	-	-		16	0.0006
anıı	s	25.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Resulf	М						NS												NS						
Anal	B	34.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND

<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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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

	Surve	y Date												03/27	/2014										
	Surve	у Туре												V - Vess	el Based				(14)						
C	onstructi	ion Activi	ty		ARM -	Armori	ng		Com	nents															
		ide												100	bod										
-		Location										_		Armoring	Operation	s									
Sam Loca						Upcu	rrent (A	mbient	)									1	Downcur	rent					
Distan Sou						Appro	x 500 -	1000 fi	•										500 ft	2					
Samp	le ID					032	714-A26	3-F-U			8							03	2714-A26	3-F-D					
Sample	Time						08:18				ave.						2000		08:04						
		pe							PC	СВ		200	2	pe		510					PC	В			2
Peterson		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1264	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1264	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)						ppb)						(ppm)						(ppb)					0%-
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	1	-	-	1	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	ij	1	1	-	0.2	0.2	0.2	0.2		0.1
Water 6	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006		
sulf	s	34.4	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	42.0	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Resuld	М						NS												NS						
Analy	В	49.2	ND	ND	3.7	ND	11	ND	ND	ND	ND	ND	ND	37.2	ND	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND

- 1 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.
  - 4 S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	y Date												03/27/	2014			-				***			
	Surve	у Туре			10.0%									V - Vesse	l Based										
Cc	onstructi	on Activi	ty	PDC	- Pile I	Driving	- Zone C		Com	nents													224		
		de												Eb	7										
		Location												Pier	32										
Sam Local						Upcı	irrent (Am	bient)	Š										Downcum	rent	200				
Distan Sou						Appr	ox. 500 - 1	000 ft <sup>1</sup>	Ň										500 ft²						
Samp	le ID					032	2714-P032	-E-U	-		4.80							033	2714-P03	2-E-D			·		
Sample	Time						10.57												10:38						
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Un	iit	(ppm)					(p	pb)						(ppm)					(	ppb)					
Unit 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 0	1000	•	0.0007	8.2	5.6	8.0	66	-	_	-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006
sulf.	S	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.4	ND	ND	3.8	ND	10	ND	ND	ND	ND	ND	ND
Analytical Result		26.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	26.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Anai	В	32.8	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	26.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

	Surve	y Date												03/27	/2014										
27-4833	Surve	у Туре												V - Vess	el Based		-0	*							
Co	onstructi	on Activi	ly	PDC	· Pile C	niving -	Zone C		Comr	nents															
		ide												Fio											
		Location												Pier	32										
Sam Loca						Upcu	errent (An	nbient)	i									1	Downcum	rent					
Distan Sou						Appro	ox. 500 - 1	1000 fl											500 ft <sup>2</sup>						
Samp	le ID					032	714-P03	2-F-U	_									03	2714-P03	2-F-D					
Sample	Time						09:13			141						= 2007		-	08:49	}					
		Pe							P	В		74	ē	Pe	, , ,						P	СВ			2
Parameter		Total Suspended	Kinziew	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1254	Araclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Araclor 1264	Aroclor 1250	Naphthalene	Benzo(a)pyrene
Unit (ppm)							(1	ppb)						(ppm)						(ppb)					
Detectio	n Limit <sup>3</sup>	Amblent + 100	0.05	-	-	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambient + 100	0.05	1	ı	ľ	-	0.2	0.2	0.2	0.2	1	0.1
Water (		**	0.0007	8.2	5.6	8.0	66	-	-	-	-	16	0.0006	•	0.0007	8.2	5.6	8,0	66	-	-	_	-	16	0.0006
esuit	s	11.6	ND	ND.	3.5	NĐ	ND	ND	ND	ND	ND	ND	ND	10.8	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Resulf	м	32.4	ND	ND	3.5	ND	14	ND	ND	ND	ND	ND	ND	23.6	ND	ND	3.2	ND	13	ND	ND	ND	ND	ND	ND
Anal	В	44.8	ND	ND	4.0	ND	14	ND	ND	ND	ND	ND	ND	32.0	ND	ND	3.8	ND	11	ND	ND	ND	ND	ND	ND

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

	Surve	ey Date												03/28	3/2014										
	Surve	у Туре												V - Vess	sel Based										
С		on Activi	ty	,	ARM -	Armori	ng		Comr	nents															
		de													bb										
		Location												Armoring	Operation	ns									
Sam Loca	ition					Upcu	rrent (Aı	mbien	t)									l	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					032	814-A26	3-E-U										03	2814-A26	3-E-D					
Sample	e Time						12:22												12:09						
Darameter		Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
20	-	Total (	V	_	0			Arocl	Arocl	Arocl	Arocl	Nap	Benze	Total	2	_	0			Arocl	Arocl	Arocl	Arocl	Nap	Benze
Ur	nit	(ppm)					(	ppb)						(ppm)					(	ppb)					
Detectio	n Limit³	Ambient + 100	0.05	ŀ	1	ı	-	0.2	0.2	0.2	0.2	ı	0.1	Ambient + 100	0.05	1	1	ŀ	ı	0.2	0.2	0.2	0.2	ı	0.1
Water (		*	0.0007	8.2	5.6	8.0	66	ı	-		ı	16	0.0006	*	0.0007	8.2	5.6	8.0	66		-			16	0.0006
sult4	s	27.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	30.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surv	ey Date												03/28	3/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	ments															
	Т	ide												Flo	ood										
		Location												Armoring	Operation	าร									
Loca						Upcu	rrent (A	mbien	t)									ļ	Downcur	rent					
	nce to irce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					032	814-A26	3-F-U										03	2814-A26	3-F-D					
Sampl	e Time						08:26												08:08						
rotomered	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene		
Uı	nit	(ppm)			•		(	ppb)						(ppm)				•		(ppb)	•				
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05	1		-	ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05			ŀ	-	0.2	0.2	0.2	0.2	ı	0.1
Water Stan		0.0007	8.2	5.6	8.0	66	-		-	-	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006	
∍sult⁴	s	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	58.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Analytical Result⁴	М						NS												NS						
<b>B</b> 56.0 ND				ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	69.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

<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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												03/29	9/2014										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		ARM -	Armori	ng		Com	nents															
		ide													bb										
		Location												Armoring	Operation	ns									
Sam Loca						Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	!					
Samp	ole ID					032	914-A26	3-E-U										03	2914-A26	3-E-D					
Sample	e Time						11:52												11:39						
		PCB PCB												pep							PO	СВ		ø	ne
Parameter		Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Ur	nit	(ppm)					(	ppb)						(ppm)					(	ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05				ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05		I	1	-	0.2	0.2	0.2	0.2	1	0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66		1	-		16	0.0006	*	0.0007	8.2	5.6	8.0	66	1		-	ı	16	0.0006
esulf <sup>4</sup>	s	44.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	46.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analy	В	44.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND

- 1 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

	Surve	ey Date												03/29	9/2014										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ty		ARM -	Armori	ng		Com	ments															
	Т	ide												FI	ood										
		Location												Armoring	Operation	ns									
	nple ation					Upcu	rrent (A	mbient	t)									l	Downcur	rent					
	nce to Irce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					032	914-A26	3-F-U										03	2914-A26	3-F-D					
Sampl	e Time						10:24												10:12						
rotomored	רמומוופנפו	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene	Total Suspended Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyrene
Uı	nit	(ppm)	<del>·                                     </del>																	(ppb)				•	
Detection	on Limit <sup>3</sup>	Ambient + 100	0.05		-	ı	-	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	ı	ı	ı		0.2	0.2	0.2	0.2	-	0.1
Water Stand	,	*	0.0007	8.2	5.6	8.0	66					16	0.0006	*	0.0007	8.2	5.6	8.0	66				1	16	0.0006
esul∉	s	43.2	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	49.6	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resul <sup>∉</sup>	М	NS																	NS						
Anal	В	58.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	53.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Samples collected at the edge of the 500 ft mixing zone

<sup>&</sup>lt;sup>3</sup> Based on New York State Department of Environmental Conservation (NYSDEC) Permit Facility ID 3-9903-00043/00012-14

<sup>--</sup> No detection limit or water quality standard

<sup>\*</sup> 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>&</sup>lt;sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom