	Surve	y Date												09/17	7/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		DRR -	Dredgi	ng		Com	ments															
		ide													bb										
		Location												Dred	ge 506										
Loca						Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distai Sou	nce to Irce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Sam	ole ID					091	713-D50	6-E-U										09	1713-D50	6-E-D					
Sampl	e Time						12:35												12:18						
o de care		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)				<u> </u>	(	ppb)						(ppm)		<u> </u>				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	I	0.2	0.2	0.2	0.2	-	0.1
Water Stand	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	-	-	-	-	16	0.0006
esult <sup>4</sup>	s	20.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	52.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М		NS																NS						
Analy	В	24.8	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	58.4	ND	ND	ND	ND	14	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

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

	Surve	ey Date												09/17	7/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		DRR -	Dredgi	ng		Com	ments															
	Т	ide												Fle	ood										
		Location												Dred	ge 506										
Loca	nple ation					Upcu	rrent (A	mbien	t)									ĺ	Downcur	rent					
	nce to irce				Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2						
Sam	ole ID				091	713-D50	6-F-U										09	1713-D50	)6-F-D						
Sampl	ole Time 09:04																	09:23							
.,	raiailletei	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	-		-	ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	1	1	-		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					16	0.0006
esult <sup>4</sup>	s	37.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	32.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Analı	В	56.4	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	121	ND	ND	ND	ND	14	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

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

	Surve	y Date												09/17	7/2013										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ty	- 1	DRR -	Dredgi	ng		Com	nents															
		ide													bb										
		Location												Dredo	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					091	713-D55	1-E-U										09	1713-D55	1-E-D					
Sample	Time						11:33												11:57						
Ţ		papu						8		DB	0	ne	rene	papu						7	PC		0	au au	rene
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	iit	(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	1	ı	1	ı	0.2	0.2	0.2	0.2	I	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	1	16	0.0006
sult <sup>4</sup>	s						NS												NS						
Analytical Result <sup>4</sup>	М	20.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	81.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analy	В			•	•		NS	•	•	•	-	-				•			NS	•	-	•	•		

<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

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

	Surve	y Date												09/17	7/2013										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity	- 1	DRR -	Dredgi	ng		Comr	nents															
		ide													ood										
		Location												Dred	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									ļ	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft	2					
Samp	le ID					091	713-D55	1-F-U										09	1713-D55	51-F-D					
Sample	Time						08:26												08:41						
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
Par		Total S S	Me	Z	ŏ	1		Arocic	Aroclo	Arocic	Arocic	Napł	Benzo	Total S S	Me	Z	ŏ	1		Arocic	Arocic	Arocic	Arocic	Napł	Benzo
Un	it	(ppm)					(	ppb)						(ppm)					(	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient + 100	0.05	ı			ı	0.2	0.2	0.2	0.2		0.1	Ambient + 100	0.05	ı	ı	ı	I	0.2	0.2	0.2	0.2		0.1
Water (	-	*	0.0007	8.2	5.6	8.0	66	ı	ı	1	1	16	0.0006	*	0.0007	8.2	5.6	8.0	66	-		-	-	16	0.0006
sult <sup>4</sup>	s						NS												NS						
Analytical Result <sup>4</sup>	М	37.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	22.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS	•	•		•		

<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

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

	Surve	ey Date												09/18	3/2013										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activ	ity		DRR -	Dredgi	ng		Comr	nents															
	Т	ide												E	bb										
		Location												Dredo	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					091	813-D55	51-E-U										09	1813-D55	51-E-D					
Sample	Time						13:22												13:11						
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)					
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		-		1	16	0.0006	*	0.0007	8.2	5.6	8.0	66			-	-	16	0.0006
sult4	s						NS												NS						
Analytical Result <sup>4</sup>	М	34.0	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	4.80	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS						

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<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

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	Surve	ey Date												09/18	3/2013										
	Surve	у Туре												V - Vess	sel Based										
Co	onstruct	ion Activi	ity		DRR -	Dredgi	ng		Com	nents															
		ide													ood										
		Location												Dred	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									ı	Downcur	rent					
Distan Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2					
Samp	le ID		091813-D551-F-U															09	1813-D55	51-F-D					
Sample	Time						07:53												07:40						
eter		Suspended Solids	ıry	el	er	p	0	242	ı	254 B	260	alene	oyrene	sk ds	ıry	el	er	5	0	242	T	254 B	260	alene	oyrene
Parameter		Total Susper 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)					
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
ssult⁴	s						NS												NS						
Analytical Result⁴	М	6.00	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS				-		-

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<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

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	Surve	ey Date												09/19	9/2013										
	Surve	у Туре												V - Vess	sel Based										
Co	onstructi	ion Activi	ity		DRR -	Dredgi	ng		Comr	nents															
		ide													bb										
		Location												Dred	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									İ	Downcur	rent					
	urce Approx. 500 - 1000 ft <sup>1</sup>																	500 ft <sup>2</sup>	2						
Samp	le ID	091913-D551-E-U																09	1913-D55	51-E-D					
Sample	Time	_	_		_	_				13:56															
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
Un	it	(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				1	16	0.0006	*	0.0007	8.2	5.6	8.0	66					16	0.0006
ssult <sup>4</sup>	s		NS																NS						
Analytical Result <sup>4</sup>	М	37.6	6 ND ND ND ND 11 ND ND ND ND ND ND N											11.6	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS	-	-				

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	Surve	ey Date												09/19	9/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Com	nents															
	Т	ide												Fl	ood										
		Location												Dred	ge 551										
Sample Location Distance to						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distai Sou					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2						
Samp	ole ID					091	913-D55	1-F-U										09	1913-D55	1-F-D					
Sampl	e Time		11:39																11:26						
, comercial control		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	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					16	0.0006
esult <sup>4</sup>	s	20.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	18.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М						NS												NS						
Anal	В	29.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	32.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND

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	Surve	ey Date												09/20	/2013										
	Surve	у Туре												V - Vess	el Based										
С	onstruct	ion Activ	ity		DRR -	Dredgi	ng		Com	ments															
		ide													bb										
		Location												Decant C	perations	3									
San 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>	!					
Samp	ole ID					092	013-D21	1-E-U										09	2013-D21	1-E-D					
Sampl	e Time						17:39												17:21						
Deremeter		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)	Ā	₹	₹		ă	(ppm)						Ppb)	Ā	₹	Ā	_	ğ
Detection		Ambient +	0.05					0.2	0.2	0.2	0.2		0.1	Ambient +	0.05					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	16	0.0006
esult <sup>4</sup>	s	26.0	ND	ND	3.1	ND	12	ND	ND	ND	ND	ND	ND	42.0	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М		NS I I I I I I																NS						
Analy	В	103	ND	ND	3.0	ND	13	ND	ND	ND	ND	ND	ND	36.8	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	ey Date												09/20	)/2013										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activ	ity		DRR -	Dredgi	ng		Com	ments															
		ide													bb										
		Location												Dred	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	le ID					092	013-D55	51-E-U										09	2013-D55	51-E-D					
Sample	e Time						16:59												16:49						
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	nit	(ppm)						ppb)						(ppm)					<u> </u>	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient +	0.05					0.2	0.2	0.2	0.2		0.1	Ambient +	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
ssult4	s						NS												NS						
Analytical Result⁴	М	43.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	67.2	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS												NS						

<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

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

	Surve	ey Date												09/20	)/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ity		DRR -	Dredgi	ng		Comr	nents															
		ide													ood										
		Location												Dred	ge 551										
Sam Loca	ition					Upcu	rrent (A	mbien	t)									I	Downcur	rent					
Distar Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2					
Samp	ole ID		092013-D551-F-U															09	2013-D55	51-F-D					
Sample	e Time		12:06																11:44						
		pep								СВ		Ð	ane	pep								СВ		Ð	ane
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	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 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
esult <sup>4</sup>	s	14.8	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	29.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Analytical Result <sup>4</sup>	М		NS																NS						
Anal	В	38.8	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	24.0	ND	ND	ND	ND	14	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												09/21	1/2013										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Comi	ments															
		ide													bb										
		Location												Dred	ge 551										
Sam Loca	tion					Upcu	rrent (A	mbien	t)									l	Downcur	rent					
Distan Sou			Approx. 500 - 1000 ft <sup>1</sup>																500 ft <sup>2</sup>	2					
Samp	ole ID		092113-D551-E-U															09	2113-D55	1-E-D					
Sample	e Time						14:39												14:28						
		þəp							P	СВ		Ð	ne	ded							P	СВ		Ð	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					0.2	0.2	0.2	0.2		0.1
Water (	- 1	*	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			NS								NS													
Analytical Result <sup>4</sup>	М	18.0	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	21.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Anal	В						NS												NS		-		-		-

- 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.

	Surve	y Date												09/2	1/2013										
	Surve	у Туре												V - Ves	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Com	ments															
	Т	ide												FI	ood										
		Location												Dred	ge 551										
San Loca						Upcu	rrent (Aı	nbien	t)										Downcur	rent					
Distar Soເ						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					092	113-D55	1-F-U										09	2113-D55	51-F-D					
Sampl	e Time						12:12												12:32						
jo		sı	, Y	<u> </u>	er	-		242		B 82	097	ilene	yrene	s S	Į.	<u> </u>	er	_		242		B 82	560	lene	yrene
Deremoter	3	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			1	ı	0.2	0.2	0.2	0.2	1	0.1	Ambient + 100	0.05		1		I	0.2	0.2	0.2	0.2	1	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
esulf⁴	s	14.0	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	22.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Analytical Result⁴	М				NS												NS								
Anal	В	37.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	38.0	ND	ND	ND	ND	14	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												09/22	2/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Comi	ments															
	Т	ide												E	bb										
		Location												Decant C	Operations	S									
	nple ation					Upcu	rrent (Aı	mbien	t)									I	Downcur	rent					
Distar Sou	nce to irce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					092	213-D21	1-E-U										09	2213-D21	1-E-D					
Sampl	e Time						08:38												08:21						
1	<u> </u>	papua	>		L			72		ZB	99	ene	rene	papua	>		L			75		ZB	8	eue	rene
rotomered		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 Stand	-	*	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
sulf*	s	20.4	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	22.8	ND	ND	3.2	ND	15	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Analı	В	99.6	ND	ND	ND	3.1	14	ND	ND	ND	ND	ND	ND	31.2	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
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NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.

	Surve	ey Date												09/22	2/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Comi	ments															
	Т	ide												Fl	ood										
		Location												Decant C	Operations	S									
San Loca						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distar Sou	nce to irce					Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samı	ole ID					092	213-D21	1-F-U										09	2213-D21	11-F-D					
Sampl	e Time						10:45												10:27						
Darameter	a a li di di	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	Bei								Arc	Arc	Arc	z	Be
Ui	nit	(ppm)		ı	1	I I	(	ppb)	ı	1	1	1	l	(ppm)		1	ı	I	1	(ppb)		ı	ı		
Detection	on 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	ı	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
sulf⁴	s	12.4	ND	ND	3.4	4.5	13	ND	ND	ND	ND	ND	ND	19.6	ND	ND	3.8	ND	14	ND	ND	ND	ND	ND	ND
ytical Re	S   12.4   ND   ND   ND   ND   ND   ND   ND   N						NS												NS						
Anal	В	28.0	ND	ND	3.1	ND	15	ND	ND	ND	ND	ND	ND	50.8	ND	ND	ND	ND	15	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
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- NS = Not Sampled due to water depth, pursuant to 8/6/13 modification to Condition 60 of NYSDEC Permit Facility ID 3-9903-00043/00012-14.
  - <sup>4</sup> S = Near Surface, M = Mid-Depth, B = Near Bottom

	Surve	ey Date												09/22	2/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Com	ments															
		ide													bb										
		Location												Dred	ge 551										
Sam Loca						Upcu	rrent (Aı	mbient	:)									I	Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 fi	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					092	213-D55	1-E-U										09	2213-D55	1-E-D					
Sample	e Time		_				08:02								_				07:51						
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		I	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			-	-	16	0.0006
sulf⁴	s						NS												NS						
Analytical Result⁴	М	22.4	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	38.8	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Anal	В	_	-				NS				_		-	_	-		•		NS		_				-

- 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.

	Surve	y Date												09/22	2/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Comi	ments															
	Т	ide												Fl	ood										
		Location												Dred	ge 551										
Sam Loca						Upcu	rrent (A	mbien	t)										Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	t <sup>1</sup>										500 ft <sup>2</sup>	2					
Samp	ole ID					092	213-D55	1-F-U										09	2213-D55	51-F-D					
Sample	e Time						10:12												10:00	1					
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)					<u> </u>	(ppb)					
Detectio	n Limit <sup>3</sup>	Ambient +	0.05					0.2	0.2	0.2	0.2		0.1	Ambient +	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
sulf	s						NS												NS						
Analytical Result <sup>4</sup>	М	13.2	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Anal	B NS																	NS							

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

	Surve	y Date												09/23	3/2013										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Comi	ments															
	Т	ide												E	bb										
		Location												Decant C	Operations	S									
San 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					
Samı	ole ID					092	313-D21	1-E-U										09	2313-D21	1-E-D					
Sampl	e Time						08:35												08:19						
iot		Suspended Solids	ıry	e	er	<b>-</b>	0	242		254 B	790	alene	oyrene	sh	ıry	<u> </u>	er	-	0	242		254 B	260	alene	oyrene
rotomered	5	Total Susp Solic	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 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
esult⁴	s	17.6	ND	ND	3.2	ND	11	ND	ND	ND	ND	ND	ND	28.0	ND	ND	3.5	ND	13	ND	ND	ND	ND	ND	ND
Analytical Resulf⁴	М						NS												NS						
Anal	В	28.8	ND	ND	3.2	ND	12	ND	ND	ND	ND	ND	ND	31.6	ND	ND	4.3	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.

	Surve	ey Date												09/23	3/2013										
	Surve	у Туре												V - Vess	sel Based										
C	onstruct	ion Activit	ty	I	DRR -	Dredgi	ng		Com	ments															
	Т	ide												E	bb										
		Location												Dred	ge 551										
Sam Loca						Upcu	rrent (Aı	mbient	:)										Downcur	rent					
Distan Sou						Appro	x. 500 -	1000 ft	1										500 ft	2					
Samp	le ID					092	313-D55	1-E-U										09	2313-D55	51-E-D					
Sample	Time						09:02												08:53						
n Parameter	iit	Ambient + G Total Suspended 100 Solids	0.0 Wercury	Nickel	Copper	Lead		6 Aroclor 1242	Aroclor 1248	8.0 Aroclor 1254	% Aroclor 1260	Naphthalene	Benzo(a)pyrene	Ambient + G Total Suspended 100 Solids	Mercury	Nickel	Copper	Lead		(dd Aroclor 1242	Aroclor 1248	0.0 Aroclor 1254	Aroclor 1260	Naphthalene	.e Benzo(a)pyrene
Detectio	n Limit	Ambi 10	0.05	ı	1	-	-	0.2	0.2	0.2	0.2	-	0.1	Ambi 10	0.05		1			0.2	0.2	0.2	0.2		0.1
Water 0	-	*	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
sulf	s						NS												NS						
Analytical Result⁴	М	21.2	ND	ND	3.4	ND	12	ND	ND	ND	ND	ND	ND	24.8	ND	ND	3.0	ND	12	ND	ND	ND	ND	ND	ND
Analy	В						NS				•								NS				•		

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	Surve	y Date												09/23	3/2013										
	Surve	у Туре												V - Vess	sel Based										
С	onstruct	ion Activi	ty		DRR -	Dredgi	ng		Com	ments															
		ide												Fl	ood										
		Location												Dred	ge 551										
Sam Loca						Upcu	rrent (A	mbien	:)										Downcur	rent					
Distar Sou						Appro	x. 500 -	1000 f	1										500 ft <sup>2</sup>	2					
Samp	ole ID					092	313-D55	1-F-U										09	2313-D55	51-F-D					
Sample	e Time						09:49												09:40						
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					0.2	0.2	0.2	0.2		0.1
	Water Quality Standard <sup>3</sup>		0.0007	8.2	5.6	8.0	66		-			16	0.0006	*	0.0007	8.2	5.6	8.0	66		-			16	0.0006
sulf	s						NS												NS						
Analytical Result <sup>4</sup>	М	20.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	26.0	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Anal	В	B NS																	NS						

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