ANALYTICAL REPORT

Lab Number:	L1016101
Client:	Tetra Tech Rizzo 1 Grant Street Framingham, MA 01701-9005
ATTN:	Ken Deshais
Phone:	(508) 903-2000
Project Name:	SUFFOLK DOWNS
Project Number:	127-20712
Report Date:	11/29/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1016101-01	RECEIVING WATER	EAST BOSTON/REVERE	10/14/10 10:00
L1016101-02	SD-10	EAST BOSTON/REVERE	10/14/10 09:20
L1016101-03	SD-5	EAST BOSTON/REVERE	10/14/10 08:40

Project Name:	SUFFOLK DOWNS	**Lab Number:**	L1016101
Project Number:	127-20712	**Report Date:**	11/29/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report replaces the report issued October 22, 2010. At the client's request the Volatile Organics compound list was amended.

The analyses of Bioassay, Dioxins, and Asbestos were subcontracted. The results will be issued under separate covers.

Sample Receipt

Headspace was noted in the sample containers submitted for Volatile Organics for samples "SD10" and "SD5". The analysis was performed at the client's request.

Semivolatile Organics

The WG438101-2 LCS recoveries, associated with L1016101-02 and -03, were above the acceptance criteria

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Case Narrative (continued)

for 2,4-Dinitrotoluene (102%) and Pentachlorophenol (106%); however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported.

Metals

L1016101-01 has elevated detection limits for all analytes by Method EPA 6020 due to the dilution required by the high concentrations of non-target analytes. The requested reporting limits were not achieved.

The WG437981-4 MS recoveries for Calcium (70%), Magnesium (0%) and Hardness (133%) performed on L1016101-01 do not apply because the sample concentrations are greater than four times the spike amount added.

The WG438603-4 MS recovery, performed on L1016101-03, is above the acceptance criteria for Mercury (133%). A post digestion spike was performed with an acceptable recovery of 99%.

Total Organic Carbon

L1016101-01, -02 and -03 have elevated detection limits due to the dilutions required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons Elizabeth Simmons

Title: Technical Director/Representative Date: 11/29/10

ORGANICS

VOLATILES

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID:	L1016101-02	Date Collected:	10/14/10 09:20
Client ID:	SD-10	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	5,624		
Analytical Date:	10/15/10 08:57		
Analyst:	TT		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Chloroform	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	3.5	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Tetrachloroethene	ND		ug/l	1.5	--	1
Chlorobenzene	ND		ug/l	3.5	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	10	--	1
Bromomethane	ND		ug/l	5.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
Acrolein	ND		ug/l	8.0	--	1
Acrylonitrile	ND		ug/l	10	--	1

Project Name: SUFFOLK DOWNS
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SAMPLE RESULTS

Lab ID: L1016101-02
Client ID: SD-10
Sample Location: EAST BOSTON/REVERE
Date Collected: 10/14/10 09:20
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		80-120
Fluorobenzene	100		80-120
4-Bromofluorobenzene	97		80-120

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SAMPLE RESULTS

Lab ID:	L1016101-03	Date Collected:	10/14/10 08:40
Client ID:	SD-5	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	5,624		
Analytical Date:	10/15/10 10:08		
Analyst:	TT		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Chloroform	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	3.5	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Tetrachloroethene	ND		ug/l	1.5	--	1
Chlorobenzene	ND		ug/l	3.5	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	10	--	1
Bromomethane	ND		ug/l	5.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
Acrolein	ND		ug/l	8.0	--	1
Acrylonitrile	ND		ug/l	10	--	1

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
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SAMPLE RESULTS

Lab ID: L1016101-03
Client ID: SD-5
Sample Location: EAST BOSTON/REVERE
Date Collected: 10/14/10 08:40
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	95		80-120
Fluorobenzene	104		80-120
4-Bromofluorobenzene	99		80-120

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Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 10/15/10 07:13
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG437594-2					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.5	--
Chloroform	ND		ug/l	1.5	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	3.5	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.5	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	1.5	--
Chlorobenzene	ND		ug/l	3.5	--
Trichlorofluoromethane	ND		ug/l	5.0	--
1,2-Dichloroethane	ND		ug/l	1.5	--
1,1,1-Trichloroethane	ND		ug/l	2.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	1.5	--
cis-1,3-Dichloropropene	ND		ug/l	1.5	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	10	--
Bromomethane	ND		ug/l	5.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.5	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 10/15/10 07:13
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG437594-2					
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
Vinyl acetate	ND		ug/l	20	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Acrolein	ND		ug/l	8.0	--
Acrylonitrile	ND		ug/l	10	--
Methyl tert butyl ether	ND		ug/l	20	--
Dibromomethane	ND		ug/l	1.0	--
1,4-Dioxane	ND		ug/l	2000	--
Tert-Butyl Alcohol	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	92		80-120
Fluorobenzene	103		80-120
4-Bromofluorobenzene	102		80-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG437594-1								
Methylene chloride	106		-		1-221	-		30
1,1-Dichloroethane	115		-		59-155	-		30
Chloroform	112		-		51-138	-		30
Carbon tetrachloride	124		-		70-140	-		30
1,2-Dichloropropane	115		-		1-210	-		30
Dibromochloromethane	107		-		53-149	-		30
1,1,2-Trichloroethane	103		-		52-150	-		30
2-Chloroethylvinyl ether	104		-		1-305	-		30
Tetrachloroethene	103		-		64-148	-		30
Chlorobenzene	78		-		37-160	-		30
Trichlorofluoromethane	116		-		17-181	-		30
1,2-Dichloroethane	126		-		49-155	-		30
1,1,1-Trichloroethane	113		-		52-162	-		30
Bromodichloromethane	110		-		35-155	-		30
trans-1,3-Dichloropropene	108		-		17-183	-		30
cis-1,3-Dichloropropene	103		-		1-227	-		30
Bromoform	85		-		45-169	-		30
1,1,2,2-Tetrachloroethane	87		-		46-157	-		30
Benzene	106		-		37-151	-		30
Toluene	98		-		47-150	-		30
Ethylbenzene	85		-		37-162	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG437594-1								
Chloromethane	125		-		1-273	-		30
Bromomethane	85		-		1-242	-		30
Vinyl chloride	115		-		1-251	-		30
Chloroethane	110		-		14-230	-		30
1,1-Dichloroethene	118		-		1-234	-		30
trans-1,2-Dichloroethene	104		-		54-156	-		30
cis-1,2-Dichloroethene	98		-		60-140	-		30
Trichloroethene	97		-		71-157	-		30
1,2-Dichlorobenzene	77		-		18-190	-		30
1,3-Dichlorobenzene	75		-		59-156	-		30
1,4-Dichlorobenzene	79		-		18-190	-		30
p/m-Xylene	84		-		40-160	-		30
o-Xylene	79		-		40-160	-		30
XYLENE (TOTAL)	82		-		40-160	-		30
Styrene	77		-		40-160	-		30
Acetone	128		-		40-160	-		30
Carbon disulfide	110		-		40-160	-		30
2-Butanone	128		-		40-160	-		30
Vinyl acetate	133		-		40-160	-		30
4-Methyl-2-pentanone	118		-		40-160	-		30
2-Hexanone	125		-		40-160	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG437594-1								
Acrolein	125		-		40-160	-		30
Acrylonitrile	110		-		40-160	-		30
Dibromomethane	100		-		70-130	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	102				80-120
Fluorobenzene	109				80-120
4-Bromofluorobenzene	94				80-120

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437594-3 QC Sample: L1016101-02 Client ID: SD-10												
Methylene chloride	ND	20	18	90		-	-		1-221	-		30
1,1-Dichloroethane	ND	20	26	129		-	-		59-155	-		30
Chloroform	ND	20	24	120		-	-		51-138	-		30
Carbon tetrachloride	ND	20	28	140		-	-		70-140	-		30
1,2-Dichloropropane	ND	20	25	124		-	-		1-210	-		30
Dibromochloromethane	ND	20	22	111		-	-		53-149	-		30
1,1,2-Trichloroethane	ND	20	21	107		-	-		52-150	-		30
2-Chloroethylvinyl ether	ND	20	20	101		-	-		1-305	-		30
Tetrachloroethene	ND	20	22	112		-	-		64-148	-		30
Chlorobenzene	ND	20	17	84		-	-		37-160	-		30
Trichlorofluoromethane	ND	20	25	126		-	-		17-181	-		30
1,2-Dichloroethane	ND	20	26	132		-	-		49-155	-		30
1,1,1-Trichloroethane	ND	20	26	128		-	-		52-162	-		30
Bromodichloromethane	ND	20	23	116		-	-		35-155	-		30
trans-1,3-Dichloropropene	ND	20	23	115		-	-		17-183	-		30
cis-1,3-Dichloropropene	ND	20	21	105		-	-		1-227	-		30
Bromoform	ND	20	18	88		-	-		45-169	-		30
1,1,2,2-Tetrachloroethane	ND	20	18	91		-	-		46-157	-		30
Benzene	ND	20	23	116		-	-		35-151	-		30
Toluene	ND	20	21	105		-	-		47-150	-		30
Ethylbenzene	ND	20	18	92		-	-		37-162	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437594-3 QC Sample: L1016101-02 Client ID: SD-10												
Chloromethane	ND	20	32	158		-	-		1-273	-		30
Bromomethane	ND	20	19	97		-	-		1-242	-		30
Vinyl chloride	ND	20	27	133		-	-		1-251	-		30
Chloroethane	ND	20	25	126		-	-		14-230	-		30
1,1-Dichloroethene	ND	20	26	130		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	20	24	119		-	-		54-156	-		30
cis-1,2-Dichloroethene	ND	20	22	108		-	-		60-140	-		30
Trichloroethene	ND	20	22	108		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	20	16	83		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	20	16	81		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	20	17	84		-	-		18-190	-		30
p/m-Xylene	ND	40	36	91		-	-		40-160	-		30
o-Xylene	ND	20	17	84		-	-		40-160	-		30
XYLENE (TOTAL)	ND	60	53	89		-	-		40-160	-		30
Styrene	ND	20	16	81		-	-		40-160	-		30
Acetone	ND	50	66	132		-	-		40-160	-		30
Carbon disulfide	ND	20	21	106		-	-		40-160	-		30
2-Butanone	ND	50	62	124		-	-		40-160	-		30
Vinyl acetate	ND	40	57	142		-	-		40-160	-		30
4-Methyl-2-pentanone	ND	50	57	114		-	-		40-160	-		30
2-Hexanone	ND	50	58	116		-	-		40-160	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437594-3 QC Sample: L1016101-02 Client ID: SD-10												
Acrolein	ND	40	36	89		-	-		40-160	-		30
Acrylonitrile	ND	40	42	105		-	-		40-160	-		30
Dibromomethane	ND	20	20	100		-	-			-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	94				80-120
Fluorobenzene	108				80-120
Pentafluorobenzene	101				80-120

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437594-4 QC Sample: L1016101-02 Client ID: SD-10						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	ND	ND	ug/l	NC		30
1,2-Dichloropropane	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30
Toluene	ND	ND	ug/l	NC		30
Ethylbenzene	ND	ND	ug/l	NC		30
Chloromethane	ND	ND	ug/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437594-4 QC Sample: L1016101-02 Client ID: SD-10					
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		94		80-120
Fluorobenzene	100		106		80-120
4-Bromofluorobenzene	97		104		80-120

SEMIVOLATILES

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID:	L1016101-02	Date Collected:	10/14/10 09:20
Client ID:	SD-10	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 625
Analytical Method:	5,625	Extraction Date:	10/19/10 09:35
Analytical Date:	10/21/10 06:41		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	5.0	--	1
Benzidine	ND		ug/l	50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
2-Chloronaphthalene	ND		ug/l	6.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	5.0	--	1
Fluoranthene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	10	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Hexachloroethane	ND		ug/l	5.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NDPA/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	5.0	--	1

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-02
Client ID: SD-10
Sample Location: EAST BOSTON/REVERE
Date Collected: 10/14/10 09:20
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/l	5.0	--	1
Benzo(b)fluoranthene	ND		ug/l	5.0	--	1
Chrysene	ND		ug/l	5.0	--	1
Acenaphthylene	ND		ug/l	5.0	--	1
Anthracene	ND		ug/l	5.0	--	1
Benzo(ghi)perylene	ND		ug/l	5.0	--	1
Fluorene	ND		ug/l	5.0	--	1
Phenanthrene	ND		ug/l	5.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	7.0	--	1
Pyrene	ND		ug/l	5.0	--	1
n-Nitrosodimethylamine	ND		ug/l	50	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Pentachlorophenol	ND		ug/l	10	--	1
Phenol	ND		ug/l	7.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	117		10-120
4-Terphenyl-d14	99		33-120

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID:	L1016101-03	Date Collected:	10/14/10 08:40
Client ID:	SD-5	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 625
Analytical Method:	5,625	Extraction Date:	10/19/10 09:35
Analytical Date:	10/21/10 15:07		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	5.0	--	1
Benzidine	ND		ug/l	50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
2-Chloronaphthalene	ND		ug/l	6.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	5.0	--	1
Fluoranthene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	10	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Hexachloroethane	ND		ug/l	5.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NDPA/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	5.0	--	1

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-03
Client ID: SD-5
Sample Location: EAST BOSTON/REVERE
Date Collected: 10/14/10 08:40
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/l	5.0	--	1
Benzo(b)fluoranthene	ND		ug/l	5.0	--	1
Chrysene	ND		ug/l	5.0	--	1
Acenaphthylene	ND		ug/l	5.0	--	1
Anthracene	ND		ug/l	5.0	--	1
Benzo(ghi)perylene	ND		ug/l	5.0	--	1
Fluorene	ND		ug/l	5.0	--	1
Phenanthrene	ND		ug/l	5.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	7.0	--	1
Pyrene	ND		ug/l	5.0	--	1
n-Nitrosodimethylamine	ND		ug/l	50	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Pentachlorophenol	ND		ug/l	10	--	1
Phenol	ND		ug/l	7.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	96		33-120

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,625
Analytical Date: 10/21/10 00:27
Analyst: JB

Extraction Method: EPA 625
Extraction Date: 10/19/10 09:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG438101-1					
Acenaphthene	ND		ug/l	5.0	--
Benzidine	ND		ug/l	50	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--
2-Chloronaphthalene	ND		ug/l	6.0	--
3,3'-Dichlorobenzidine	ND		ug/l	50	--
2,4-Dinitrotoluene	ND		ug/l	6.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	5.0	--
Fluoranthene	ND		ug/l	5.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	10	--
Hexachlorocyclopentadiene	ND		ug/l	30	--
Hexachloroethane	ND		ug/l	5.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	5.0	--
NDPA/DPA	ND		ug/l	15	--
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--
Bis(2-ethylhexyl)phthalate	ND		ug/l	5.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Benzo(a)anthracene	ND		ug/l	5.0	--
Benzo(a)pyrene	ND		ug/l	5.0	--

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,625
Analytical Date: 10/21/10 00:27
Analyst: JB

Extraction Method: EPA 625
Extraction Date: 10/19/10 09:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG438101-1					
Benzo(b)fluoranthene	ND		ug/l	5.0	--
Benzo(k)fluoranthene	ND		ug/l	5.0	--
Chrysene	ND		ug/l	5.0	--
Acenaphthylene	ND		ug/l	5.0	--
Anthracene	ND		ug/l	5.0	--
Benzo(ghi)perylene	ND		ug/l	5.0	--
Fluorene	ND		ug/l	5.0	--
Phenanthrene	ND		ug/l	5.0	--
Dibenzo(a,h)anthracene	ND		ug/l	5.0	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	7.0	--
Pyrene	ND		ug/l	5.0	--
Aniline	ND		ug/l	20	--
4-Chloroaniline	ND		ug/l	5.0	--
1-Methylnaphthalene	ND		ug/l	5.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	7.0	--
Dibenzofuran	ND		ug/l	5.0	--
2-Methylnaphthalene	ND		ug/l	5.0	--
n-Nitrosodimethylamine	ND		ug/l	50	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
p-Chloro-m-cresol	ND		ug/l	5.0	--
2-Chlorophenol	ND		ug/l	6.0	--
2,4-Dichlorophenol	ND		ug/l	10	--
2,4-Dimethylphenol	ND		ug/l	10	--
2-Nitrophenol	ND		ug/l	20	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	30	--
4,6-Dinitro-o-cresol	ND		ug/l	20	--
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	7.0	--

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,625
Analytical Date: 10/21/10 00:27
Analyst: JB

Extraction Method: EPA 625
Extraction Date: 10/19/10 09:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG438101-1					
2-Methylphenol	ND		ug/l	6.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	10	--
Carbazole	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	103		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG438101-2								
Acenaphthene	87		-		46-118	-		30
1,2,4-Trichlorobenzene	66		-		39-98	-		30
2-Chloronaphthalene	87		-		40-140	-		30
2,4-Dinitrotoluene	**102**	Q	-		24-96	-		30
2,6-Dinitrotoluene	87		-		40-140	-		30
Fluoranthene	100		-		40-140	-		30
4-Chlorophenyl phenyl ether	96		-		40-140	-		30
n-Nitrosodi-n-propylamine	82		-		41-116	-		30
Butyl benzyl phthalate	108		-		40-140	-		30
Anthracene	106		-		40-140	-		30
Pyrene	96		-		26-127	-		30
P-Chloro-M-Cresol	95		-		23-97	-		30
2-Chlorophenol	82		-		27-123	-		30
2-Nitrophenol	77		-		30-130	-		30
4-Nitrophenol	44		-		10-80	-		30
2,4-Dinitrophenol	78		-		20-130	-		30
Pentachlorophenol	**106**	Q	-		9-103	-		30
Phenol	43		-		12-110	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG438101-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65				21-120
Phenol-d6	44				10-120
Nitrobenzene-d5	85				23-120
2-Fluorobiphenyl	92				15-120
2,4,6-Tribromophenol	113				10-120
4-Terphenyl-d14	105				33-120

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-3 QC Sample: L1016250-01 Client ID: MS Sample												
Acenaphthene	ND	80	70	88		-	-		46-118	-		30
1,2,4-Trichlorobenzene	ND	80	50	63		-	-		39-98	-		30
2-Chloronaphthalene	ND	80	64	80		-	-		40-140	-		30
2,4-Dinitrotoluene	ND	80	90	**110**	Q	-	-		24-96	-		30
2,6-Dinitrotoluene	ND	80	79	99		-	-		40-140	-		30
Fluoranthene	ND	80	94	120		-	-		40-140	-		30
4-Chlorophenyl phenyl ether	ND	80	72	90		-	-		40-140	-		30
n-Nitrosodi-n-propylamine	ND	80	61	76		-	-		41-116	-		30
Butyl benzyl phthalate	ND	80	96	120		-	-		40-140	-		30
Anthracene	ND	80	89	110		-	-		40-140	-		30
Pyrene	ND	80	82	100		-	-		26-127	-		30
P-Chloro-M-Cresol	ND	80	78	**98**	Q	-	-		23-97	-		30
2-Chlorophenol	ND	80	59	74		-	-		27-123	-		30
2-Nitrophenol	ND	80	60	75		-	-		30-130	-		30
4-Nitrophenol	ND	80	63	79		-	-		10-80	-		30
2,4-Dinitrophenol	ND	80	75	94		-	-		20-130	-		30
Pentachlorophenol	ND	80	96	**120**	Q	-	-		9-103	-		30
Phenol	ND	80	40	50		-	-		12-110	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-3 QC Sample: L1016250-01 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	103				10-120
2-Fluorobiphenyl	71				15-120
2-Fluorophenol	57				21-120
4-Terphenyl-d14	94				33-120
Nitrobenzene-d5	70				23-120
Phenol-d6	45				10-120

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-4 QC Sample: L1016250-01 Client ID: DUP Sample						
Acenaphthene	ND	ND	ug/l	NC		30
Benzidine	ND	ND	ug/l	NC		30
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC		30
Hexachlorobenzene	ND	ND	ug/l	NC		30
Bis(2-chloroethyl)ether	ND	ND	ug/l	NC		30
2-Chloronaphthalene	ND	ND	ug/l	NC		30
3,3'-Dichlorobenzidine	ND	ND	ug/l	NC		30
2,4-Dinitrotoluene	ND	ND	ug/l	NC		30
2,6-Dinitrotoluene	ND	ND	ug/l	NC		30
Azobenzene	ND	ND	ug/l	NC		30
Fluoranthene	ND	ND	ug/l	NC		30
4-Chlorophenyl phenyl ether	ND	ND	ug/l	NC		30
4-Bromophenyl phenyl ether	ND	ND	ug/l	NC		30
Bis(2-chloroisopropyl)ether	ND	ND	ug/l	NC		30
Bis(2-chloroethoxy)methane	ND	ND	ug/l	NC		30
Hexachlorobutadiene	ND	ND	ug/l	NC		30
Hexachlorocyclopentadiene	ND	ND	ug/l	NC		30
Hexachloroethane	ND	ND	ug/l	NC		30
Isophorone	ND	ND	ug/l	NC		30

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-4 QC Sample: L1016250-01 Client ID: DUP Sample					
Naphthalene	ND	ND	ug/l	NC	30
Nitrobenzene	ND	ND	ug/l	NC	30
NDPA/DPA	ND	ND	ug/l	NC	30
n-Nitrosodi-n-propylamine	ND	ND	ug/l	NC	30
Bis(2-ethylhexyl)phthalate	ND	ND	ug/l	NC	30
Butyl benzyl phthalate	ND	ND	ug/l	NC	30
Di-n-butylphthalate	ND	ND	ug/l	NC	30
Di-n-octylphthalate	ND	ND	ug/l	NC	30
Diethyl phthalate	ND	ND	ug/l	NC	30
Dimethyl phthalate	ND	ND	ug/l	NC	30
Benzo(a)anthracene	ND	ND	ug/l	NC	30
Benzo(a)pyrene	ND	ND	ug/l	NC	30
Benzo(b)fluoranthene	ND	ND	ug/l	NC	30
Benzo(k)fluoranthene	ND	ND	ug/l	NC	30
Chrysene	ND	ND	ug/l	NC	30
Acenaphthylene	ND	ND	ug/l	NC	30
Anthracene	ND	ND	ug/l	NC	30
Benzo(ghi)perylene	ND	ND	ug/l	NC	30
Fluorene	ND	ND	ug/l	NC	30

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-4 QC Sample: L1016250-01 Client ID: DUP Sample					
Phenanthrene	ND	ND	ug/l	NC	30
Dibenzo(a,h)anthracene	ND	ND	ug/l	NC	30
Indeno(1,2,3-cd)pyrene	ND	ND	ug/l	NC	30
Pyrene	ND	ND	ug/l	NC	30
Aniline	ND	ND	ug/l	NC	30
4-Chloroaniline	ND	ND	ug/l	NC	30
1-Methylnaphthalene	ND	ND	ug/l	NC	30
2-Nitroaniline	ND	ND	ug/l	NC	30
3-Nitroaniline	ND	ND	ug/l	NC	30
4-Nitroaniline	ND	ND	ug/l	NC	30
Dibenzofuran	ND	ND	ug/l	NC	30
2-Methylnaphthalene	ND	ND	ug/l	NC	30
n-Nitrosodimethylamine	ND	ND	ug/l	NC	30
2,4,6-Trichlorophenol	ND	ND	ug/l	NC	30
p-Chloro-m-cresol	ND	ND	ug/l	NC	30
2-Chlorophenol	ND	ND	ug/l	NC	30
2,4-Dichlorophenol	ND	ND	ug/l	NC	30
2,4-Dimethylphenol	ND	ND	ug/l	NC	30
2-Nitrophenol	ND	ND	ug/l	NC	30

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-4 QC Sample: L1016250-01 Client ID: DUP Sample					
4-Nitrophenol	ND	ND	ug/l	NC	30
2,4-Dinitrophenol	ND	ND	ug/l	NC	30
4,6-Dinitro-o-cresol	ND	ND	ug/l	NC	30
Pentachlorophenol	ND	ND	ug/l	NC	30
Phenol	ND	ND	ug/l	NC	30
2-Methylphenol	ND	ND	ug/l	NC	30
3-Methylphenol/4-Methylphenol	ND	ND	ug/l	NC	30
2,4,5-Trichlorophenol	ND	ND	ug/l	NC	30
Benzoic Acid	ND	ND	ug/l	NC	30
Benzyl Alcohol	ND	ND	ug/l	NC	30
Carbazole	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		48		21-120
Phenol-d6	26		40		10-120
Nitrobenzene-d5	52		56		23-120
2-Fluorobiphenyl	53		62		15-120
2,4,6-Tribromophenol	80		76		10-120
4-Terphenyl-d14	77		80		33-120

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438101-4 QC Sample: L1016250-01 Client ID: DUP Sample					

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria

PESTICIDES

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID:	L1016101-02	Date Collected:	10/14/10 09:20
Client ID:	SD-10	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	10/18/10 17:35
Analytical Date:	10/21/10 10:58	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	10/19/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB/Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	--	1
Lindane	ND		ug/l	0.020	--	1
Alpha-BHC	ND		ug/l	0.020	--	1
Beta-BHC	ND		ug/l	0.020	--	1
Heptachlor	ND		ug/l	0.020	--	1
Aldrin	ND		ug/l	0.020	--	1
Heptachlor epoxide	ND		ug/l	0.020	--	1
Endrin	ND		ug/l	0.040	--	1
Endrin aldehyde	ND		ug/l	0.040	--	1
Dieldrin	ND		ug/l	0.040	--	1
4,4'-DDE	ND		ug/l	0.040	--	1
4,4'-DDD	ND		ug/l	0.040	--	1
4,4'-DDT	ND		ug/l	0.040	--	1
Endosulfan I	ND		ug/l	0.020	--	1
Endosulfan II	ND		ug/l	0.040	--	1
Endosulfan sulfate	ND		ug/l	0.040	--	1
Toxaphene	ND		ug/l	0.200	--	1
Chlordane	ND		ug/l	0.200	--	1
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID:	L1016101-03	Date Collected:	10/14/10 08:40
Client ID:	SD-5	Date Received:	10/14/10
Sample Location:	EAST BOSTON/REVERE	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	10/18/10 17:35
Analytical Date:	10/21/10 11:10	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	10/19/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB/Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	--	1
Lindane	ND		ug/l	0.020	--	1
Alpha-BHC	ND		ug/l	0.020	--	1
Beta-BHC	ND		ug/l	0.020	--	1
Heptachlor	ND		ug/l	0.020	--	1
Aldrin	ND		ug/l	0.020	--	1
Heptachlor epoxide	ND		ug/l	0.020	--	1
Endrin	ND		ug/l	0.040	--	1
Endrin aldehyde	ND		ug/l	0.040	--	1
Dieldrin	ND		ug/l	0.040	--	1
4,4'-DDE	ND		ug/l	0.040	--	1
4,4'-DDD	ND		ug/l	0.040	--	1
4,4'-DDT	ND		ug/l	0.040	--	1
Endosulfan I	ND		ug/l	0.020	--	1
Endosulfan II	ND		ug/l	0.040	--	1
Endosulfan sulfate	ND		ug/l	0.040	--	1
Toxaphene	ND		ug/l	0.200	--	1
Chlordane	ND		ug/l	0.200	--	1
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	103		30-150	A

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 10/21/10 10:07
Analyst: SH

Extraction Method: EPA 608
Extraction Date: 10/18/10 17:35
Cleanup Method1: EPA 3620B
Cleanup Date1: 10/19/10

Parameter	Result	Qualifier	Units	RL	MDL
PCB/Pesticides by GC - Westborough Lab for sample(s): 02-03 Batch: WG438004-1					
Delta-BHC	ND		ug/l	0.020	--
Lindane	ND		ug/l	0.020	--
Alpha-BHC	ND		ug/l	0.020	--
Beta-BHC	ND		ug/l	0.020	--
Heptachlor	ND		ug/l	0.020	--
Aldrin	ND		ug/l	0.020	--
Heptachlor epoxide	ND		ug/l	0.020	--
Endrin	ND		ug/l	0.040	--
Endrin aldehyde	ND		ug/l	0.040	--
Endrin ketone	ND		ug/l	0.040	--
Dieldrin	ND		ug/l	0.040	--
4,4'-DDE	ND		ug/l	0.040	--
4,4'-DDD	ND		ug/l	0.040	--
4,4'-DDT	ND		ug/l	0.040	--
Endosulfan I	ND		ug/l	0.020	--
Endosulfan II	ND		ug/l	0.040	--
Endosulfan sulfate	ND		ug/l	0.040	--
Methoxychlor	ND		ug/l	0.200	--
Toxaphene	ND		ug/l	0.200	--
Chlordane	ND		ug/l	0.200	--
cis-Chlordane	ND		ug/l	0.020	--
trans-Chlordane	ND		ug/l	0.020	--
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 10/21/10 10:07
Analyst: SH

Extraction Method: EPA 608
Extraction Date: 10/18/10 17:35
Cleanup Method1: EPA 3620B
Cleanup Date1: 10/19/10

Parameter	Result	Qualifier	Units	RL	MDL
PCB/Pesticides by GC - Westborough Lab for sample(s): 02-03 Batch: WG438004-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	118		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 Batch: WG438004-2								
Delta-BHC	88		-		30-150	-		30
Lindane	99		-		30-150	-		30
Alpha-BHC	93		-		30-150	-		30
Beta-BHC	99		-		30-150	-		30
Heptachlor	85		-		30-150	-		30
Aldrin	87		-		30-150	-		30
Heptachlor epoxide	111		-		30-150	-		30
Endrin	118		-		30-150	-		30
Endrin aldehyde	117		-		30-150	-		30
Endrin ketone	113		-		30-150	-		30
Dieldrin	118		-		30-150	-		30
4,4'-DDE	102		-		30-150	-		30
4,4'-DDD	122		-		30-150	-		30
4,4'-DDT	121		-		30-150	-		30
Endosulfan I	127		-		30-150	-		30
Endosulfan II	119		-		30-150	-		30
Endosulfan sulfate	108		-		30-150	-		30
Methoxychlor	112		-		30-150	-		30
cis-Chlordane	113		-		30-150	-		30
trans-Chlordane	108		-		30-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 Batch: WG438004-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68				30-150	A
Decachlorobiphenyl	144				30-150	A

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438004-3 QC Sample: L1016295-02 Client ID: MS Sample												
Delta-BHC	ND	0.312	0.378	121		-	-		19-140	-		30
Lindane	ND	0.312	0.265	85		-	-		56-123	-		30
Alpha-BHC	ND	0.312	0.292	93		-	-		37-134	-		30
Beta-BHC	ND	0.312	0.408	131		-	-		17-147	-		30
Heptachlor	ND	0.312	0.347	111		-	-		40-111	-		30
Aldrin	ND	0.312	0.340	109		-	-		40-120	-		30
Heptachlor epoxide	ND	0.312	0.398	127		-	-		37-142	-		30
Endrin	ND	0.312	0.328	105		-	-		56-121	-		30
Endrin aldehyde	ND	0.312	0.319	102		-	-		42-122	-		30
Endrin ketone	ND	0.312	0.342	109		-	-		30-150	-		30
Dieldrin	ND	0.312	0.272	87		-	-		52-126	-		30
4,4'-DDE	ND	0.312	0.399	128		-	-		30-145	-		30
4,4'-DDD	ND	0.312	0.272	87		-	-		31-141	-		30
4,4'-DDT	ND	0.312	0.288	92		-	-		38-127	-		30
Endosulfan I	ND	0.312	0.271	87		-	-		45-153	-		30
Endosulfan II	ND	0.312	0.322	103		-	-		.1-202	-		30
Endosulfan sulfate	ND	0.312	0.345	110		-	-		26-144	-		30
Methoxychlor	ND	0.312	ND	0		-	-		30-150	-		30
cis-Chlordane	ND	0.312	0.331	106		-	-		30-150	-		30
trans-Chlordane	ND	0.312	0.376	120		-	-		30-150	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438004-3 QC Sample: L1016295-02 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	*Column*
2,4,5,6-Tetrachloro-m-xylene	96				30-150	A
Decachlorobiphenyl	74				30-150	A

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438004-4 QC Sample: L1016295-02 Client ID: DUP Sample						
Delta-BHC	ND	ND	ug/l	NC		30
Lindane	ND	ND	ug/l	NC		30
Alpha-BHC	ND	ND	ug/l	NC		30
Beta-BHC	ND	ND	ug/l	NC		30
Heptachlor	ND	ND	ug/l	NC		30
Aldrin	ND	ND	ug/l	NC		30
Heptachlor epoxide	ND	ND	ug/l	NC		30
Endrin	ND	ND	ug/l	NC		30
Endrin aldehyde	ND	ND	ug/l	NC		30
Dieldrin	ND	ND	ug/l	NC		30
4,4'-DDE	ND	ND	ug/l	NC		30
4,4'-DDD	ND	ND	ug/l	NC		30
4,4'-DDT	ND	ND	ug/l	NC		30
Endosulfan I	ND	ND	ug/l	NC		30
Endosulfan II	ND	ND	ug/l	NC		30
Endosulfan sulfate	ND	ND	ug/l	NC		30
Toxaphene	ND	ND	ug/l	NC		30
Chlordane	ND	ND	ug/l	NC		30
Aroclor 1016	ND	ND	ug/l	NC		30

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
PCB/Pesticides by GC - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438004-4 QC Sample: L1016295-02 Client ID: DUP Sample					
Aroclor 1221	ND	ND	ug/l	NC	30
Aroclor 1232	ND	ND	ug/l	NC	30
Aroclor 1242	ND	ND	ug/l	NC	30
Aroclor 1248	ND	ND	ug/l	NC	30
Aroclor 1254	ND	ND	ug/l	NC	30
Aroclor 1260	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		94		30-150	A
Decachlorobiphenyl	91		113		30-150	A

METALS

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-01
Client ID: RECEIVING WATER
Sample Location: EAST BOSTON/REVERE
Matrix: Water
Date Collected: 10/14/10 10:00
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:29	EPA 3005A	19,200.7	AI
Cadmium, Total	ND		mg/l	0.0008	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Calcium, Total	93		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:29	EPA 3005A	19,200.7	AI
Chromium, Total	ND		mg/l	0.0020	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Copper, Total	0.0031		mg/l	0.0020	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Lead, Total	0.0032		mg/l	0.0020	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Magnesium, Total	120		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:29	EPA 3005A	19,200.7	AI
Nickel, Total	0.0032		mg/l	0.0020	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Zinc, Total	0.0343		mg/l	0.0200	--	4	10/15/10 13:10	10/19/10 06:54	EPA 3005A	1,6020	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	730		mg/l	0.66	--	1	10/18/10 15:30	10/21/10 18:29	EPA 3005A	19,200.7	AI

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-02
Client ID: SD-10
Sample Location: EAST BOSTON/REVERE
Matrix: Water
Date Collected: 10/14/10 09:20
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:45	EPA 3005A	19,200.7	AI
Antimony, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Arsenic, Total	0.0028		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0002	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Calcium, Total	56		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:45	EPA 3005A	19,200.7	AI
Chromium, Total	0.0012		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Copper, Total	0.0035		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Lead, Total	0.0065		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Magnesium, Total	11		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:45	EPA 3005A	19,200.7	AI
Mercury, Total	ND		mg/l	0.0002	--	1	10/20/10 17:57	10/21/10 12:30	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0019		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Selenium, Total	0.001		mg/l	0.001	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0004	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Zinc, Total	0.0512		mg/l	0.0050	--	1	10/15/10 13:10	10/19/10 07:00	EPA 3005A	1,6020	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	--	1	10/18/10 15:30	10/21/10 18:45	EPA 3005A	19,200.7	AI

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-03
Client ID: SD-5
Sample Location: EAST BOSTON/REVERE
Matrix: Water
Date Collected: 10/14/10 08:40
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:48	EPA 3005A	19,200.7	AI
Antimony, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Arsenic, Total	0.0016		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0002	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Calcium, Total	100		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:48	EPA 3005A	19,200.7	AI
Chromium, Total	0.0012		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Copper, Total	0.0009		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Lead, Total	0.0008		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Magnesium, Total	12		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:48	EPA 3005A	19,200.7	AI
Mercury, Total	ND		mg/l	0.0002	--	1	10/20/10 17:57	10/21/10 12:32	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0019		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Selenium, Total	0.001		mg/l	0.001	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0004	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Zinc, Total	0.0185		mg/l	0.0050	--	1	10/15/10 13:10	10/19/10 07:06	EPA 3005A	1,6020	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	310		mg/l	0.66	--	1	10/18/10 15:30	10/21/10 18:48	EPA 3005A	19,200.7	AI

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG437685-1										
Antimony, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Arsenic, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Cadmium, Total	ND		mg/l	0.0002	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Chromium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Copper, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Lead, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Nickel, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Selenium, Total	ND		mg/l	0.001	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Silver, Total	ND		mg/l	0.0004	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM
Zinc, Total	ND		mg/l	0.0050	--	1	10/15/10 13:10	10/19/10 02:52	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG437981-1										
Aluminum, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:22	19,200.7	AI
Calcium, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:22	19,200.7	AI
Magnesium, Total	ND		mg/l	0.10	--	1	10/18/10 15:30	10/21/10 18:22	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-03 Batch: WG437981-1										
Hardness	ND		mg/l	0.66	--	1	10/18/10 15:30	10/21/10 18:22	19,200.7	AI

Project Name: SUFFOLK DOWNS
Project Number: 127-20712
Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-03 Batch: WG438603-1										
Mercury, Total	ND		mg/l	0.0002	--	1	10/20/10 17:57	10/21/10 12:23	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG437685-2								
Antimony, Total	95		-		80-120	-		
Arsenic, Total	97		-		80-120	-		
Beryllium, Total	97		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Chromium, Total	92		-		80-120	-		
Copper, Total	99		-		80-120	-		
Lead, Total	96		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	95		-		80-120	-		
Thallium, Total	88		-		80-120	-		
Zinc, Total	98		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG437981-2								
Aluminum, Total	95		-		85-115	-		
Calcium, Total	100		-		85-115	-		
Magnesium, Total	100		-		85-115	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 Batch: WG437981-2								
Hardness	100		-		85-115	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03 Batch: WG438603-2					
Mercury, Total	112	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437685-4 QC Sample: L1016136-02 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.5042	101		-	-		80-120	-		20
Arsenic, Total	0.0081	0.12	0.1310	102		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0482	96		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0520	102		-	-		80-120	-		20
Chromium, Total	0.0099	0.2	0.1905	90		-	-		80-120	-		20
Copper, Total	0.0090	0.25	0.2389	92		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5133	101		-	-		80-120	-		20
Nickel, Total	0.0172	0.5	0.4755	92		-	-		80-120	-		20
Selenium, Total	0.035	0.12	0.145	91		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0447	89		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1021	85		-	-		80-120	-		20
Zinc, Total	0.0726	0.5	0.5067	87		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437981-4 QC Sample: L1016101-01 Client ID: RECEIVING WATER												
Aluminum, Total	ND	2	2.0	100		-	-		75-125	-		20
Calcium, Total	93	10	100	**70**		-	-		75-125	-		20
Magnesium, Total	120	10	120	**0**		-	-		75-125	-		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437981-4 QC Sample: L1016101-01 Client ID: RECEIVING WATER												
Hardness	730	66.2	760	**45**		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438603-4 QC Sample: L1016101-03 Client ID: SD-5												
Mercury, Total	ND	0.001	0.0013	**133**	Q	-	-		70-130	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437685-3 QC Sample: L1016136-02 Client ID: DUP Sample						
Arsenic, Total	0.0081	0.0071	mg/l	13		20
Copper, Total	0.0090	0.0089	mg/l	1		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.0172	0.0169	mg/l	2		20
Selenium, Total	0.035	0.034	mg/l	4		20
Zinc, Total	0.0726	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437981-3 QC Sample: L1016101-01 Client ID: RECEIVING WATER						
Aluminum, Total	ND	ND	mg/l	NC		20
Calcium, Total	93	90	mg/l	3		20
Magnesium, Total	120	110	mg/l	9		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437981-3 QC Sample: L1016101-01 Client ID: RECEIVING WATER						
Hardness	730	690	mg/l	6		20
Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438603-3 QC Sample: L1016101-03 Client ID: SD-5						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-01
Client ID: RECEIVING WATER
Sample Location: EAST BOSTON/REVERE
Matrix: Water

Date Collected: 10/14/10 10:00
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	160		mg CaCO3/L	2.0	NA	1	-	10/15/10 10:18	30,2320B	SD
Specific Conductance	7500		umhos/cm	10	--	1	-	10/14/10 18:15	4,120.1	JW
Solids, Total	4800		mg/l	10	NA	1	-	10/18/10 14:50	30,2540B	SD
Solids, Total Dissolved	4400		mg/l	10	--	1	-	10/18/10 15:05	30,2540C	SD
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	10/14/10 18:50	30,4500CL-D	JW
pH (H)	7.1		SU	-	NA	1	-	10/15/10 00:20	30,4500H+-B	JW
Nitrogen, Ammonia	1.54		mg/l	0.075	--	1	10/15/10 15:30	10/20/10 21:14	30,4500NH3-BH	AT
Dissolved Oxygen	1.7		mg/l	0.10	--	1	-	10/14/10 20:10	30,4500O-G	DW
Total Organic Carbon	11		mg/l	4.0	--	8	-	10/18/10 19:05	30,5310C	DD

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-02
Client ID: SD-10
Sample Location: EAST BOSTON/REVERE
Matrix: Water

Date Collected: 10/14/10 09:20
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	250		mg CaCO3/L	2.0	NA	1	-	10/15/10 10:18	30,2320B	SD
Specific Conductance	1200		umhos/cm	10	--	1	-	10/14/10 18:15	4,120.1	JW
Solids, Total	670		mg/l	10	NA	1	-	10/18/10 14:50	30,2540B	SD
Solids, Total Dissolved	640		mg/l	10	--	1	-	10/18/10 15:05	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	--	1	10/18/10 11:00	10/18/10 16:13	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	10/14/10 18:50	30,4500CL-D	JW
pH (H)	7.4		SU	-	NA	1	-	10/15/10 00:20	30,4500H+-B	JW
Nitrogen, Ammonia	5.79		mg/l	0.075	--	1	10/15/10 15:30	10/20/10 21:15	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	0.27		mg/l	0.10	--	1	-	10/16/10 01:22	44,353.2	DD
Nitrogen, Total Kjeldahl	6.8		mg/l	0.30	--	1	10/15/10 11:40	10/20/10 22:41	30,4500N-C	AT
Dissolved Oxygen	4.3		mg/l	0.10	--	1	-	10/14/10 20:10	30,4500O-G	DW
Phosphorus, Total	0.204		mg/l	0.010	--	1	-	10/20/10 15:57	30,4500P-E	SD
Total Organic Carbon	13		mg/l	1.0	--	2	-	10/18/10 19:05	30,5310C	DD

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

SAMPLE RESULTS

Lab ID: L1016101-03
Client ID: SD-5
Sample Location: EAST BOSTON/REVERE
Matrix: Water

Date Collected: 10/14/10 08:40
Date Received: 10/14/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	430		mg CaCO3/L	2.0	NA	1	-	10/15/10 10:18	30,2320B	SD
Specific Conductance	1200		umhos/cm	10	--	1	-	10/14/10 18:15	4,120.1	JW
Solids, Total	710		mg/l	10	NA	1	-	10/18/10 14:50	30,2540B	SD
Solids, Total Dissolved	660		mg/l	10	--	1	-	10/18/10 15:05	30,2540C	SD
Cyanide, Total	0.005		mg/l	0.005	--	1	10/18/10 11:00	10/18/10 16:14	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	10/14/10 18:50	30,4500CL-D	JW
pH (H)	7.1		SU	-	NA	1	-	10/15/10 00:20	30,4500H+-B	JW
Nitrogen, Ammonia	6.07		mg/l	0.075	--	1	10/15/10 15:30	10/20/10 21:19	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	10/16/10 01:22	44,353.2	DD
Nitrogen, Total Kjeldahl	6.7		mg/l	0.30	--	1	10/15/10 11:40	10/20/10 22:42	30,4500N-C	AT
Dissolved Oxygen	2.0		mg/l	0.10	--	1	-	10/14/10 20:10	30,4500O-G	DW
Phosphorus, Total	0.379		mg/l	0.010	--	1	-	10/20/10 15:57	30,4500P-E	SD
Total Organic Carbon	10		mg/l	1.0	--	2	-	10/18/10 19:05	30,5310C	DD

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG437529-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	10/14/10 18:50	30,4500CL-D	JW
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG437640-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	--	1	10/15/10 11:40	10/20/10 22:36	30,4500N-C	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG437715-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	10/15/10 15:30	10/20/10 21:30	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG437735-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	10/15/10 10:18	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG437771-2										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	10/16/10 01:14	44,353.2	DD
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG437900-2										
Cyanide, Total	ND		mg/l	0.005	--	1	10/18/10 11:00	10/18/10 15:54	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG437929-1										
Solids, Total	ND		mg/l	10	NA	1	-	10/18/10 14:50	30,2540B	SD
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG437930-1										
Solids, Total Dissolved	ND		mg/l	10	--	1	-	10/18/10 15:05	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG438052-2										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	10/18/10 19:05	30,5310C	DD
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG438460-1										
Phosphorus, Total	ND		mg/l	0.010	--	1	-	10/20/10 15:55	30,4500P-E	SD

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-03		Batch: WG437515-1					
Specific Conductance	98		-		80-120	-		
General Chemistry - Westborough Lab	Associated sample(s): 01-03		Batch: WG437529-2					
Chlorine, Total Residual	109		-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): 01-03		Batch: WG437551-1					
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab	Associated sample(s): 02-03		Batch: WG437640-2					
Nitrogen, Total Kjeldahl	102		-		85-110	-		
General Chemistry - Westborough Lab	Associated sample(s): 01-03		Batch: WG437715-2					
Nitrogen, Ammonia	98		-		80-120	-		20
General Chemistry - Westborough Lab	Associated sample(s): 01-03		Batch: WG437735-2					
Alkalinity, Total	103		-		80-115	-		11
General Chemistry - Westborough Lab	Associated sample(s): 02-03		Batch: WG437771-1					
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG437900-1					
Cyanide, Total	90	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG437929-2					
Solids, Total	97	-	81-113	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG437930-2					
Solids, Total Dissolved	94	-	72-121	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG438052-1					
Total Organic Carbon	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG438460-2					
Phosphorus, Total	105	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437640-3 QC Sample: L1016123-05 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	1.5	8	9.9	105		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437715-3 QC Sample: L1016200-06 Client ID: MS Sample												
Nitrogen, Ammonia	0.271	4	4.26	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437735-3 QC Sample: L1016069-05 Client ID: MS Sample												
Alkalinity, Total	92	100	190	93		-	-		86-116	-		11
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437771-3 QC Sample: L1016243-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	ND	4	4.2	105		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437900-3 QC Sample: L1016088-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.150	**75**	Q	-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG438052-3 QC Sample: L1016277-01 Client ID: MS Sample												
Total Organic Carbon	0.58	4	5.0	109		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438460-3 QC Sample: L1016217-02 Client ID: MS Sample												
Phosphorus, Total	0.065	0.5	0.579	103		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437515-2 QC Sample: L1016101-01 Client ID: RECEIVING WATER						
Specific Conductance	7500	7600	umhos/cm	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437529-3 QC Sample: L1016101-01 Client ID: RECEIVING WATER						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437551-2 QC Sample: L1016101-01 Client ID: RECEIVING WATER						
pH (H)	7.1	7.2	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437640-4 QC Sample: L1016123-06 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	49	52	mg/l	6		24
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437715-4 QC Sample: L1016200-05 Client ID: DUP Sample						
Nitrogen, Ammonia	0.238	0.250	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437735-4 QC Sample: L1016069-05 Client ID: DUP Sample						
Alkalinity, Total	92	89	mg CaCO3/L	3		11
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437771-4 QC Sample: L1016243-01 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG437900-4 QC Sample: L1016101-03 Client ID: SD-5						
Cyanide, Total	0.005	0.005	mg/l	1		30

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1016101
Report Date: 11/29/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437929-3 QC Sample: L1016221-01 Client ID: DUP Sample					
Solids, Total	520	510	mg/l	2	16
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG437930-3 QC Sample: L1016123-06 Client ID: DUP Sample					
Solids, Total Dissolved	1000	1000	mg/l	0	11
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG438052-4 QC Sample: L1016101-03 Client ID: SD-5					
Total Organic Carbon	10	10	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG438460-4 QC Sample: L1016217-02 Client ID: DUP Sample					
Phosphorus, Total	0.065	0.062	mg/l	5	20

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1016101-01A	Plastic 1000ml unpreserved	C	6	4	Y	Absent	COND-120(1),TRC-4500(1),PH-4500(.01)
L1016101-01B	Plastic 1000ml unpreserved	C	6	4	Y	Absent	TSC-2540(7),TDS-2540(7)
L1016101-01C	Plastic 1000ml unpreserved	C	6	4	Y	Absent	ALK-T-2320(14)
L1016101-01D	Plastic 250ml H2SO4 preserved	C	<2	4	Y	Absent	NH3-4500(28)
L1016101-01E	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)
L1016101-01F	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)
L1016101-01G	Plastic 500ml HNO3 preserved	C	<2	4	Y	Absent	CA-UI(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),HARDU(180),MG-UI(180),PB-6020T(180),AL-UI(180),CD-6020T(180)
L1016101-01H	BOD bottle Powder Pillow preserv	C	N/A	4	Y	Absent	DO-4500(1)
L1016101-02A	Plastic 1000ml unpreserved	A	6	4	Y	Absent	COND-120(1),TRC-4500(1),PH-4500(.01),TDS-2540(7)
L1016101-02B	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	SE-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),HARDU(180),MG-UI(180),PB-6020T(180),BE-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),AL-UI(180),CD-6020T(180)
L1016101-02C	Amber 1000ml Na2S2O3	A	6	4	Y	Absent	625(7)
L1016101-02D	Amber 1000ml Na2S2O3	A	6	4	Y	Absent	625(7)
L1016101-02E	Amber 1000ml Na2S2O3	A	6	4	Y	Absent	PCB/PESTICIDE-608(7)
L1016101-02F	Amber 1000ml Na2S2O3	A	6	4	Y	Absent	PCB/PESTICIDE-608(7)
L1016101-02G	Plastic 500ml unpreserved	A	6	4	Y	Absent	TSC-2540(7),CA-UI(180)
L1016101-02H	Plastic 250ml H2SO4 preserved	A	<2	4	Y	Absent	TKN-4500(28),NO3/NO2-353(28),TPHOS-4500(28),NH3-4500(28)

*Values in parentheses indicate holding time in days

Project Name: SUFFOLK DOWNS
Project Number: 127-20712

Lab Number: L1016101
Report Date: 11/29/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1016101-02I	Plastic 250ml NaOH preserved	A	>12	4	Y	Absent	TCN-4500(14)
L1016101-02J	Plastic 250ml unpreserved	A	6	4	Y	Absent	ALK-T-2320(14)
L1016101-02K	BOD bottle Powder Pillow preserv	A	N/A	4	Y	Absent	DO-4500(1)
L1016101-02O	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1016101-02P	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1016101-02X	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	624(7)
L1016101-02Y	Vial Na2S2O3 preserved	A	N/A	4	Y	Absent	624(7)
L1016101-03A	Plastic 1000ml unpreserved	B	6	2	Y	Absent	COND-120(1),TRC-4500(1),PH-4500(.01),TDS-2540(7)
L1016101-03B	Plastic 500ml HNO3 preserved	B	<2	2	Y	Absent	SE-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),HARDU(180),MG-UI(180),PB-6020T(180),BE-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),AL-UI(180),CD-6020T(180)
L1016101-03C	Amber 1000ml Na2S2O3	B	6	2	Y	Absent	625(7)
L1016101-03D	Amber 1000ml Na2S2O3	B	6	2	Y	Absent	625(7)
L1016101-03E	Amber 1000ml Na2S2O3	B	6	2	Y	Absent	PCB/PESTICIDE-608(7)
L1016101-03F	Amber 1000ml Na2S2O3	B	6	2	Y	Absent	PCB/PESTICIDE-608(7)
L1016101-03G	Plastic 500ml unpreserved	B	6	2	Y	Absent	TSC-2540(7),CA-UI(180)
L1016101-03H	Plastic 250ml H2SO4 preserved	B	<2	2	Y	Absent	TKN-4500(28),NO3/NO2-353(28),TPHOS-4500(28),NH3-4500(28)
L1016101-03I	Plastic 250ml NaOH preserved	B	>12	2	Y	Absent	TCN-4500(14)
L1016101-03J	Plastic 250ml unpreserved	B	6	2	Y	Absent	ALK-T-2320(14)
L1016101-03K	BOD bottle Powder Pillow preserv	B	N/A	2	Y	Absent	DO-4500(1)
L1016101-03O	Vial H2SO4 preserved	B	N/A	2	Y	Absent	TOC-5310(28)
L1016101-03P	Vial H2SO4 preserved	B	N/A	2	Y	Absent	TOC-5310(28)
L1016101-03X	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	624(7)
L1016101-03Y	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	624(7)

*Values in parentheses indicate holding time in days

Project Name: SUFFOLK DOWNS **Lab Number:** L1016101
Project Number: 127-20712 **Report Date:** 11/29/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name:	SUFFOLK DOWNS	**Lab Number:**	L1016101
Project Number:	127-20712	**Report Date:**	11/29/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: SUFFOLK DOWNS **Lab Number:** L1016101
Project Number: 127-20712 **Report Date:** 11/29/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)
Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)
Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A , 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

Serial_No:11291018:37

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 10/14/10

ALPHA Job #: L1016101

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TetraTech RIZZO

Address: 1 Grant St

Framingham, MA

Phone: 508-903 2410

Fax:

Email: ken.deshais@tetratech

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Suffolk Downs

Project Location: East Boston/Revere

Project #: 127-20712

Project Manager: Ken Deshais

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program EPA/CWA Criteria NPDES

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Aquatic toxicity	Cond, TDS, TRC	TSC	NH3	TPC	Hardness, Cd, Cr, Pb, Zn, Ni, Al, Mn, Cu	DO	Alkalinity, Ph, Copper				Sample Specific Comments
L1016101-01	Receiving Water	10/14/10	10:00	H2O	RAD	X	X	X	X	X	X	X	X	X	X		
-02	~~SD~~ SD10	10/14/10	09:20	H2O	RAD	X											
-03	SD5	10/14/10	08:40			X											

SAMPLE HANDLING

Filtration

☐ Done
☐ Not needed
☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

TOTAL # BOTTLES

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
Ken Deshais	10/14/10 12:45		10/14/10 1245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 10/14/10

ALPHA Job #: L1016101

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial No:11291018:37

Client Information

Client: FedTech Pizzo
Address: 1 Grant St
Framingham, MA
Phone: 508-903-2410
Fax:
Email: ken.deshais@etstratech.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Scottolli Downs
Project Location: East Boston / Revere
Project #: 127-20712
Project Manager: Ken DeShais
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
EPA/CWA	NPDES

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOC	Alkalinity	# BOTTLES	Sample Specific Comments
6101-02	SD10	10/14/10	09:20	H_2O	KAD	X	X		
-03	SD5	10/14/10	08:40	H_2O	KAD	X	X		

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type																	
Preservative																	

Relinquished By:	Date/Time	Received By:	Date/Time
Ken DeShais	10/14/10 12:45		10/14/10 1245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:11291018:37

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 10/14/10

ALPHA Job #: L1011101

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TetraTech Rizzo

Address: 1 Grant Street

Framingham, MA

Phone: 508-903-2410

Fax:

Email: Ken.Deshais@tetratech.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Suffolk Downs

Project Location: East Boston/Revere

Project #: 127-20712

Project Manager: Ken Deshais

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program EPA/CWA Criteria NPDES

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total solids	PH, Cond, TDS, TRC	TPH 3 metals + Al	Mg, Ca, hard	624	625	PCB/Pest.	Asbestos	Dioxins by 1613	DO, TCN	TKN, TPhos, NO2/NO3	NH3	Sample Specific Comments	TOTAL # BOTTLES
L1011-02	SD10	10/14/10	09:20	H2O	KAD	X	X	X	X	X	X	X	X	X	X	X	X		
-03	SD5	10/14/10	08:40	H2O	KAD	X	X	X	X	X	X	X	X	X	X	X	X		

SAMPLE HANDLING

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do

(Please specify below)

Container Type																			
Preservative																			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Ken Deshais	10/14/10 12:45		10/14/10 12:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)