FORMER GASTOWN MGP SITE SITE NO. 915171

2011 LAB REPORTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

The lab reports for April, May, November & December are missing for 2007.



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-1176-1

Client Project/Site: NYSDEC - Gastown WWTP

Sampling Event: Mthly Post-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Glenn May

Authorized for release by: 2/10/2011 9:57 AM

Brian Fischer Project Manager II

brian.fischer@testamericainc.com

Review your project

results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Project/Site: NYSDEC - Gastown WWTP

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Brian Fischer Project Manager II 2/10/2011 9:57 AM Client: New York State D.E.C. Project/Site: NYSDEC - Gastown WWTP TestAmerica Job ID: 480-1176-1

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Qualifier Definition/Glossary

Client: New York State D.E.C. TestAmerica Job ID: 480-1176-1

Project/Site: NYSDEC - Gastown WWTP

Qualifiers

Metals

Qualifier	Qualifier Description
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.
0	h anatatus.

General Chemistry

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

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Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Job ID: 480-1176-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-1176-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

HPLC

Method(s) 300.0: In batch 4066 the following sample(s) was diluted due to the abundance of target analytes: Pre-Carbon (480-1176-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 310.2: The method blank for batch 3975 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: (480-1153-5 DU), Post-Carbon (480-1176-1), WA-012411-02 (480-1153-5)

No other analytical or quality issues were noted.

TestAmerica Job ID: 480-1176-1

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Analytical Data

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Client Sample ID: Post-Carbon Lab Sample ID: 480-1176-1

Date Collected: 01/26/11 14:45 **Matrix: Wastewater**

Date Received: 01/26/11 15:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/28/11 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/28/11 15:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/28/11 15:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/28/11 15:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/28/11 15:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/28/11 15:54	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			01/28/11 15:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/28/11 15:54	1
2-Hexanone	ND		5.0	1.2	ug/L			01/28/11 15:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/28/11 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/28/11 15:54	1
Acetone	ND		10	3.0	ug/L			01/28/11 15:54	1
Benzene	ND		1.0	0.41	ug/L			01/28/11 15:54	1
Bromodichloromethane	ND		1.0	0.38	ug/L			01/28/11 15:54	1
Bromoform	ND		1.0	0.26	ug/L			01/28/11 15:54	1
Bromomethane	ND		1.0	0.69	ug/L			01/28/11 15:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/28/11 15:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/28/11 15:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/28/11 15:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/28/11 15:54	1
Chloroethane	ND		1.0	0.32	ug/L			01/28/11 15:54	1
Chloroform	ND		1.0	0.34	ug/L			01/28/11 15:54	1
Chloromethane	ND		1.0	0.35	ug/L			01/28/11 15:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/28/11 15:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/28/11 15:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/28/11 15:54	1
Styrene	ND		1.0	0.73	ug/L			01/28/11 15:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/28/11 15:54	1
Toluene	ND		1.0	0.51	ug/L			01/28/11 15:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/28/11 15:54	1
Trichloroethene	ND		1.0	0.46	ug/L			01/28/11 15:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/28/11 15:54	1
Vinyl acetate	ND		5.0	0.85	ug/L			01/28/11 15:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/28/11 15:54	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137			_		01/28/11 15:54	1
Toluene-d8 (Surr)	100		71 - 126					01/28/11 15:54	1
			70 100					04/00/44 45 54	

Surrogate	% Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137	_		01/28/11 15:54	1
Toluene-d8 (Surr)	100		71 - 126			01/28/11 15:54	1
4-Bromofluorohenzene (Surr)	95		73 - 120			01/28/11 15:54	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND	0.20	0.035	ug/L			02/07/11 15:03	1
1,3,5-Trimethylbenzene	ND	0.20	0.15	ug/L			02/07/11 15:03	1
Benzene	ND	0.20	0.023	ug/L			02/07/11 15:03	1
Ethylbenzene	ND	0.20	0.029	ug/L			02/07/11 15:03	1
Isopropylbenzene	ND	0.20	0.027	ug/L			02/07/11 15:03	1
Methyl tert-butyl ether	ND	0.40	0.044	ug/L			02/07/11 15:03	1
m,p-Xylene	ND	0.40	0.054	ug/L			02/07/11 15:03	1
n-Butylbenzene	ND	0.20	0.031	ug/L			02/07/11 15:03	1
n-Propylbenzene	ND	0.20	0.13	ug/L			02/07/11 15:03	1

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TestAmerica Job ID: 480-1176-1

Analytical Data

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Lab Sample ID: 480-1176-1

TestAmerica Job ID: 480-1176-1

Matrix: Wastewater

Client Sample ID: Post-Carbon Date Collected: 01/26/11 14:45

Date Received: 01/26/11 15:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.20	0.027	ug/L			02/07/11 15:03	1
p-Cymene	ND		0.20	0.030	ug/L			02/07/11 15:03	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			02/07/11 15:03	1
Toluene	ND		0.20	0.036	ug/L			02/07/11 15:03	1
Xylenes, Total	ND		0.60	0.054	ug/L			02/07/11 15:03	1
Analyte Iron	157	Qualifier	RL 50.0		ug/L	D	Prepared 01/27/11 18:08	Analyzed 01/29/11 01:50	Dil Fac
General Chemistry	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte									
Analyte Cvanide Total			0.010	0.0050	ma/I		01/28/11 14:05	02/01/11 09:33	1
Cyanide, Total	0.33		0.010	0.0050	Ü	_	01/28/11 14:05	02/01/11 09:33	1
	0.33	Qualifier	0.010 RL 0.100	0.0050 RL 0.100	Unit	D	01/28/11 14:05 Prepared	02/01/11 09:33 Analyzed 01/26/11 23:08	Dil Fac

Lab Sample ID: 480-1176-2 **Client Sample ID: Pre-Carbon** Date Collected: 01/26/11 14:55 **Matrix: Wastewater**

Date Received: 01/26/11 15:10

Method: 200.7 Rev 4.4 - Meta	• •	Ovelifier	DI.	MDI	I I m i 4		Duamanad	Amalumad	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fa
Calcium	143000	B7	500	100	ug/L		01/27/11 18:08	01/31/11 17:03	
iron	420		50.0	19.3	ug/L		01/27/11 18:08	01/29/11 01:57	
Magnesium	85600		200	43.4	ug/L		01/27/11 18:08	01/29/11 01:57	
Potassium	4260		500	200	ug/L		01/27/11 18:08	01/31/11 17:03	· · · · · · · · · ·
Sodium	82800	B7	1000	324	ug/L		01/27/11 18:08	01/31/11 17:03	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		1.0	0.56	mg/L			01/28/11 19:25	- 2
Sulfate	193		4.0	0.70	mg/L			01/28/11 19:25	2
Alkalinity, Total	541	В	100	40.0	mg/L			01/27/11 13:14	10

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Client Sample ID: Post-Carbon

Lab Sample ID: 480-1176-1

TestAmerica Job ID: 480-1176-1

Matrix: Wastewater

Date Collected: 01/26/11 14:45 Date Received: 01/26/11 15:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4035	01/28/11 15:54	ND	TestAmerica Buffalo
Total/NA	Analysis	8021B		1	4807	02/07/11 15:03	DB	TestAmerica Buffalo
Total/NA	Prep	200.7			3990	01/27/11 18:08	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	4164	01/29/11 01:50	MM	TestAmerica Buffalo
Total/NA	Analysis	SM 4500 H+ B		1	3863	01/26/11 23:08	ML	TestAmerica Buffalo
Total/NA	Prep	Distill/CN			4078	01/28/11 14:05	AP	TestAmerica Buffalo
Total/NA	Analysis	335.4		1	4324	02/01/11 09:33	JM	TestAmerica Buffalo

Client Sample ID: Pre-Carbon Lab Sample ID: 480-1176-2

Date Collected: 01/26/11 14:55 Matrix: Wastewater

Date Received: 01/26/11 15:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			3990	01/27/11 18:08	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	4164	01/29/11 01:57	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	4331	01/31/11 17:03	MM	TestAmerica Buffalo
Total/NA	Analysis	310.2		10	3975	01/27/11 13:14	RF	TestAmerica Buffalo
Total/NA	Analysis	300.0		2	4066	01/28/11 19:25	RMM	TestAmerica Buffalo

Certification Summary

Client: New York State D.E.C.

TestAmerica Buffalo

TestAmerica Buffalo

TestAmerica Buffalo

TestAmerica Buffalo

Project/Site: NYSDEC - Gastown WWTP

Certification ID * Expiration Date Laboratory Authority Program **EPA Region** USDA P330-08-00242 11/25/11 TestAmerica Buffalo 07/06/11 TestAmerica Buffalo State Program 6 88-0686 Arkansas California **NELAC** 9 1169CA 09/30/11 TestAmerica Buffalo PH-0568 TestAmerica Buffalo Connecticut State Program 09/30/12 TestAmerica Buffalo Florida **NELAC** 4 E87672 06/30/11 TestAmerica Buffalo Georgia Georgia EPD N/A 03/31/11 Georgia 04/01/10 TestAmerica Buffalo State Program 956 TestAmerica Buffalo Illinois **NELAC** 5 100325 / 200003 09/30/11 TestAmerica Buffalo lowa State Program 374 03/01/11 F-10187 02/28/11 TestAmerica Buffalo Kansas **NELAC** TestAmerica Buffalo Kentucky Kentucky UST 4 04/12/12 30 TestAmerica Buffalo Kentucky State Program 90029 12/31/11 TestAmerica Buffalo Louisiana **NELAC** 02031 06/30/11 State Program TestAmerica Buffalo Maine NY0044 12/04/12 TestAmerica Buffalo Maryland State Program 294 03/31/11 TestAmerica Buffalo Massachusetts State Program M-NY044 06/30/11 5 TestAmerica Buffalo Michigan State Program 9937 04/01/11 TestAmerica Buffalo Minnesota **NELAC** 5 036-999-337 12/31/11 TestAmerica Buffalo New Hampshire **NELAC** 68-00281 11/17/11 **NELAC** New Hampshire 2337 TestAmerica Buffalo 09/11/11 TestAmerica Buffalo New Jersey **NELAC** 2 NY455 06/30/11 2 TestAmerica Buffalo New York **NELAC** 10026 04/01/11 8 TestAmerica Buffalo North Dakota State Program R-176 03/31/11 TestAmerica Buffalo State Program 09/30/11 TestAmerica Buffalo Oregon **NELAC** 10 NY200003 06/10/11 TestAmerica Buffalo Pennsylvania **NELAC** 3 68-00281 07/31/11 TestAmerica Buffalo TN02970 03/31/11 Tennessee State Program

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

NELAC

State Program

State Program

West Virginia DEP

Texas

Virginia

West Virginia

Wisconsin

TestAmerica Job ID: 480-1176-1

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08/31/11

^{*} Any expired certifications in this list are currently pending renewal and are considered valid.

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pН	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-1176-1

Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-1176-1	Post-Carbon	Wastewater	01/26/11 14:45	01/26/11 15:10
480-1176-2	Pre-Carbon	Wastewater	01/26/11 14:55	01/26/11 15:10

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TestAmerica Job ID: 480-1176-1

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Chain of Custody Record



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Client: New York State D.E.C.

Job Number: 480-1176-1

Login Number: 1176

Creator: Wienke, Robert

List Source: TestAmerica Buffalo List Number: 1

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-2009-1

Client Project/Site: NYSDEC - Gastown WWTP

Sampling Event: Mthly Post-Carbon Mthly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Glenn May

Authorized for release by: 03/09/2011 12:56:47 PM

Brian Fischer
Project Manager II

brian.fischer@testamericainc.com

Review your project results through Total Access

Have a Question?

Ask
The

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory

Manager or his/her designee, as verified by the following signature.

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Brian Fischer Project Manager II 03/09/2011 12:56:47 PM Client: New York State D.E.C. Project/Site: NYSDEC - Gastown WWTP TestAmerica Job ID: 480-2009-1

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Qualifier Definition/Glossary

Client: New York State D.E.C. TestAmerica Job ID: 480-2009-1

Project/Site: NYSDEC - Gastown WWTP

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes

Glossary

<u> </u>	
Glossary	Glossary Description
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis.

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Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Job ID: 480-2009-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-2009-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 6989 the following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-2009-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8021B: The ending continuing calibration verification (CCV) for analytical batch 6757 slightly exceeded control criteria for toluene. The data have been qualified and reported.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 310.2: The method blank for batch 7134 contained Alkalinity above the method detection limit for samples Pre-Carbon (480-2009-1), TW09D (480-2115-7). This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-2011-1)

No other analytical or quality issues were noted.

TestAmerica Job ID: 480-2009-1

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Analytical Data

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Lab Sample ID: 480-2009-1 **Client Sample ID: Pre-Carbon**

Date Collected: 02/25/11 13:45 **Matrix: Wastewater**

Date Received: 02/25/11 14:25

Method: 200.7 Rev 4.4 - Metal	s (ICP)							
Analyte	Result Qualit	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	153000	500	100	ug/L		02/28/11 09:00	03/01/11 22:12	1
Iron	494	50.0	19.3	ug/L		02/28/11 09:00	03/01/11 22:12	1
Magnesium	74100	200	43.4	ug/L		02/28/11 09:00	03/01/11 22:12	1
Potassium	4330	500	200	ug/L		02/28/11 09:00	03/01/11 22:12	1
Sodium	88300	1000	324	ug/L		02/28/11 09:00	03/01/11 22:12	1
General Chemistry								
Analyte	Result Qualit	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145	1.0	0.56	mg/L			03/03/11 10:34	2

Client Sample ID: Post-Carbon Lab Sample ID: 480-2011-1

4.0

100

176

489 B

0.70 mg/L

40.0 mg/L

Date Collected: 02/25/11 13:30 **Matrix: Wastewater**

Sulfate

Alkalinity, Total

Method: 8260B - Volatile Organi	c Compounds ((GC/MS)							
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/28/11 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/11 16:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/11 16:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/11 16:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/11 16:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/11 16:02	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			02/28/11 16:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/11 16:02	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/11 16:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/11 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/11 16:02	1
Acetone	ND		10	3.0	ug/L			02/28/11 16:02	1
Benzene	ND		1.0	0.41	ug/L			02/28/11 16:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/11 16:02	1
Bromoform	ND		1.0	0.26	ug/L			02/28/11 16:02	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/11 16:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/11 16:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/11 16:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/11 16:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/11 16:02	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/11 16:02	1
Chloroform	ND		1.0	0.34	ug/L			02/28/11 16:02	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/11 16:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/11 16:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/11 16:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/11 16:02	1
Styrene	ND		1.0	0.73	ug/L			02/28/11 16:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/11 16:02	1
Toluene	ND		1.0	0.51	ug/L			02/28/11 16:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/11 16:02	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/11 16:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/11 16:02	1
Vinyl acetate	ND		5.0	0.85	ug/L			02/28/11 16:02	1

Page 6 of 15

TestAmerica Job ID: 480-2009-1

03/03/11 10:34

03/03/11 12:15

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Analytical Data

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Client Sample ID: Post-Carbon Lab Sample ID: 480-2011-1

Date Collected: 02/25/11 13:30 Date Received: 02/25/11 14:25

TestAmerica Job ID: 480-2009-1

Matrix: Wastewater

nic Compounds (GC/MS) (Co	ontinued)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		2.0	0.66	ug/L			02/28/11 16:02	1
% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
107		66 - 137			_		02/28/11 16:02	1
106		71 - 126					02/28/11 16:02	1
101		73 - 120					02/28/11 16:02	1
	Result ND	Result Qualifier ND **Recovery 107 106	Result ND Qualifier Qualifier RL Qualifier % Recovery 107 Qualifier Qualifier Qualifier Limits Qualifier Qual	ND 2.0 0.66 % Recovery Qualifier Limits 107 66 - 137 106 71 - 126	Result ND Qualifier Qualifier RL Qualifier MDL QUALIFIER Unit QUALIFIER **Recovery 107 Qualifier Qualifier Qualifier Limits QUALIFIER 66 - 137 106 71 - 126	Result ND Qualifier Qualifier RL 2.0 MDL ug/L Unit ug/L D % Recovery 107 Qualifier 66 - 137 71 - 126 - 137 71 - 126 - 126 - 137 71 - 126 </td <td>Result ND Qualifier RL 2.0 MDL unit ug/L D Prepared % Recovery 107 Qualifier 66 - 137 106 Limits 71 - 126 Prepared</td> <td>Result ND Qualifier RL 2.0 MDL unit 0.66 Unit ug/L D Prepared 0.2/28/11 16:02 Analyzed 0.2/28/11 16:02 % Recovery 107 Qualifier 0.2/28/11 16:02 Limits 0.2/28/11 16:02 Prepared 0.2/28/11 16:02 Analyzed 0.2/28/11 16:02 106 71 - 126 0.2/28/11 16:02 0.2/28/11 16:02</td>	Result ND Qualifier RL 2.0 MDL unit ug/L D Prepared % Recovery 107 Qualifier 66 - 137 106 Limits 71 - 126 Prepared	Result ND Qualifier RL 2.0 MDL unit 0.66 Unit ug/L D Prepared 0.2/28/11 16:02 Analyzed 0.2/28/11 16:02 % Recovery 107 Qualifier 0.2/28/11 16:02 Limits 0.2/28/11 16:02 Prepared 0.2/28/11 16:02 Analyzed 0.2/28/11 16:02 106 71 - 126 0.2/28/11 16:02 0.2/28/11 16:02

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20	0.035	ug/L			03/01/11 13:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			03/01/11 13:46	1
Benzene	0.13	J	0.20	0.023	ug/L			03/01/11 13:46	1
Ethylbenzene	ND		0.20	0.029	ug/L			03/01/11 13:46	1
Isopropylbenzene	ND		0.20	0.027	ug/L			03/01/11 13:46	1
Methyl tert-butyl ether	ND		0.40	0.044	ug/L			03/01/11 13:46	1
m,p-Xylene	ND		0.40	0.054	ug/L			03/01/11 13:46	1
n-Butylbenzene	ND		0.20	0.031	ug/L			03/01/11 13:46	1
n-Propylbenzene	ND		0.20	0.13	ug/L			03/01/11 13:46	1
o-Xylene	ND		0.20	0.027	ug/L			03/01/11 13:46	1
p-Cymene	ND		0.20	0.030	ug/L			03/01/11 13:46	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			03/01/11 13:46	1
Toluene	0.090	J	0.20	0.036	ug/L			03/01/11 13:46	1
Xylenes, Total	ND		0.60	0.054	ua/L			03/01/11 13:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	154		50.0	19.3	ug/L		02/28/11 09:00	03/01/11 22:18	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29		0.010	0.0050	mg/L		02/28/11 11:32	02/28/11 12:04	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Lab Sample ID: 480-2009-1

TestAmerica Job ID: 480-2009-1

Matrix: Wastewater

Client Sample ID: Pre-Carbon

Date Collected: 02/25/11 13:45 Date Received: 02/25/11 14:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			6587	02/28/11 09:00	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	6914	03/01/11 22:12	LH	TestAmerica Buffalo
Total/NA	Analysis	300.0		2	6989	03/03/11 10:34	RMM	TestAmerica Buffalo
Total/NA	Analysis	310.2		10	7134	03/03/11 12:15	JR	TestAmerica Buffalo

Client Sample ID: Post-Carbon Lab Sample ID: 480-2011-1

Date Collected: 02/25/11 13:30 Matrix: Wastewater

Date Received: 02/25/11 14:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	6655	02/28/11 16:02	ND	TestAmerica Buffalo
Total/NA	Analysis	8021B		1	6757	03/01/11 13:46	DB	TestAmerica Buffalo
Total/NA	Prep	200.7			6587	02/28/11 09:00	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	6914	03/01/11 22:18	LH	TestAmerica Buffalo
Total/NA	Analysis	SM 4500 H+ B		1	6596	02/26/11 17:44	AP	TestAmerica Buffalo
Total/NA	Prep	Distill/CN			6672	02/28/11 11:32	JM	TestAmerica Buffalo
Total/NA	Analysis	335.4		1	6677	02/28/11 12:04	JM	TestAmerica Buffalo

Certification Summary

Client: New York State D.E.C.

TestAmerica Buffalo

TestAmerica Buffalo

TestAmerica Buffalo

Project/Site: NYSDEC - Gastown WWTP

Certification ID * Expiration Date Laboratory Authority Program **EPA Region** USDA P330-08-00242 11/25/11 TestAmerica Buffalo 07/06/11 TestAmerica Buffalo State Program 6 88-0686 Arkansas California **NELAC** 9 1169CA 09/30/11 TestAmerica Buffalo PH-0568 TestAmerica Buffalo Connecticut State Program 09/30/12 TestAmerica Buffalo Florida **NELAC** 4 E87672 06/30/11 TestAmerica Buffalo Georgia Georgia EPD N/A 03/31/11 Georgia 04/01/10 TestAmerica Buffalo State Program 956 TestAmerica Buffalo Illinois **NELAC** 5 100325 / 200003 09/30/11 TestAmerica Buffalo lowa State Program 374 03/01/13 F-10187 01/31/12 TestAmerica Buffalo Kansas **NELAC** TestAmerica Buffalo Kentucky Kentucky UST 4 04/12/12 30 TestAmerica Buffalo Kentucky State Program 90029 12/31/11 TestAmerica Buffalo Louisiana **NELAC** 02031 06/30/11 State Program TestAmerica Buffalo Maine NY0044 12/04/12 TestAmerica Buffalo Maryland State Program 294 03/31/11 TestAmerica Buffalo Massachusetts State Program M-NY044 06/30/11 5 TestAmerica Buffalo Michigan State Program 9937 04/01/11 TestAmerica Buffalo Minnesota **NELAC** 5 036-999-337 12/31/11 TestAmerica Buffalo New Hampshire **NELAC** 68-00281 11/17/11 **NELAC** New Hampshire 2337 TestAmerica Buffalo 1 09/11/11 TestAmerica Buffalo New Jersey **NELAC** 2 NY455 06/30/11 2 TestAmerica Buffalo New York **NELAC** 10026 04/01/11 8 TestAmerica Buffalo North Dakota State Program R-176 03/31/11 TestAmerica Buffalo State Program 6 09/30/11 TestAmerica Buffalo Oregon **NELAC** 10 NY200003 06/10/11 TestAmerica Buffalo Pennsylvania **NELAC** 3 68-00281 07/31/11 TestAmerica Buffalo Tennessee TN02970 03/31/11 State Program 6 TestAmerica Buffalo T104704412-08-TX 07/31/11 Texas **NELAC** State Program TestAmerica Buffalo Virginia 3 278 06/30/11

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Program

State Program

West Virginia DEP

Washington

Wisconsin

West Virginia

TestAmerica Job ID: 480-2009-1

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02/10/12

09/30/11

08/31/11

^{*} Any expired certifications in this list are currently pending renewal and are considered valid.

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pН	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-2009-1

Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC - Gastown WWTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-2009-1	Pre-Carbon	Wastewater	02/25/11 13:45	02/25/11 14:25
480-2011-1	Post-Carbon	Wastewater	02/25/11 13:30	02/25/11 14:25

TestAmerica Job ID: 480-2009-1

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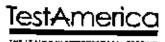
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TestAmerica Buffelo

10 Hazelwood Ewin Amherst, NY 14228-2239

Chain of Custody Record



Phone (716) 691-2600 Fair (716) 691-7991																	
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TestAmerica Buffalo

III Marelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



Phone (716) 691-2600 Fax (716) 691-7991	Complete 2	+ Willer	Labrai Fische	. 0-14					Can	sier Trac	king No	H(\$).		OPIC No	
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Thomas Palmar	(800-2)	87 - 183 (brian.fi	scher	cher Prestamerica/rc.com					<u></u>				Page I of 1	
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Client: New York State D.E.C.

Job Number: 480-2009-1

Login Number: 2009 List Source: TestAmerica Buffalo

List Number: 1

Creator: Szymanski, Andrew

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Client: New York State D.E.C.

Job Number: 480-2009-1

List Source: TestAmerica Buffalo

Login Number: 2011

List Number: 1 Creator: Szymanski, Andrew

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-2995-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Qtrly Post-Carbon Qtrly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Glenn May

Authorized for release by: 04/18/2011 12:21:33 PM

Brian Fischer
Project Manager II

brian.fischer@testamericainc.com

Review your project results through Total Access

Have a Question?

Ask
The Expert

www.testamericainc.com

Visit us at:

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Brian Fischer Project Manager II 04/18/2011 12:21:33 PM

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data

package and in the electronic data deliverable has been authorized by the Laboratory

Manager or his/her designee, as verified by the following signature.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Qualifier Definition/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

 Qualifier
 Qualifier Description

 B
 Compound was found in the blank and sample.

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

 Qualifier
 Qualifier Description

 E
 Result exceeded calibration range.

 H
 Sample was prepped or analyzed beyond the specified holding time

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

 Qualifier
 Qualifier Description

 B
 Compound was found in the blank and sample.

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

 Qualifier
 Qualifier Description

 *
 LCS or LCSD exceeds the control limits

 B
 Compound was found in the blank and sample.

 H
 Sample was prepped or analyzed beyond the specified holding time

 HF
 Field parameter with a holding time of 15 minutes

Glossary

RPD

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis. ₩ **EPA** United States Environmental Protection Agency ND Not Detected above the reporting level. MDL Method Detection Limit RL Reporting Limit RE, RE1 (etc.) Indicates a Re-extraction or Reanalysis of the sample. %R Percent Recovery

Relative Percent Difference, a measure of the relative difference between two points.

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TestAmerica Job ID: 480-2995-1

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Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

Job ID: 480-2995-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-2995-1

Comments

No additional comments

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-2995-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The following compound was outside control limits in the continuing calibration verification (CCV) associated with analytical batch 480-11126: Benzo(b)fluoranthene. This compound is not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for four analytes to be outside limits; therefore, the data has been reported.

Method(s) 8270C: The method blank for preparation batch 480-9946 contained Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 10239 the following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-2995-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8021B: The a,a,a-Trifluorotoluene surrogate recovery for the blank associated with batch 10365 was outside recovery limits. The 4-Bromofluorobenzene surrogate recovery is acceptable and all associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

Method(s) 8021B: The following sample required a secondary dilution for Benzene which was performed outside of the analytical holding time: Pre-Carbon (480-2995-1). The reported 8021 GC value for Benzene, 2800 ug/L, is confirmed via the 8260 GCMS result of 2900 mg/L.

Method(s) 8021B: The following samples were diluted due to abundance of target analytes: (480-2995-1 MS), (480-2995-1 MSD), Pre-Carbon (480-2995-1). As such, elevated reporting limits (RLs) are provided.

Method(s) 8021B: The following sample was diluted due to abundance of benzene: Pre-Carbon (480-2995-1). As such, elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Method(s) 200.7 Rev 4.4: The Method Blank for batch 480-9935 contained total calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples Post-Carbon

Case Narrative

Client: New York State D.E.C.

TestAmerica Job ID: 480-2995-1 Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Job ID: 480-2995-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-2997-1), Pre-Carbon (480-2995-1) was not performed.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 1664A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 9949 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-2997-1 MS)

Method(s) 310.2: The method blank for preparation batch 10311 contained alkalinity above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 420.4, 9066: The laboratory control sample (LCS) for batch 11326 exceeded control limits for the following analytes: Total Recoverable Phenolics. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 480-11078/2-A)

Method(s) SM 5210B: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 10130 exceeded control limits for the following analytes: BOD. he acceptable range for the LCS is 167.5 - 228.5 mg/L. The LCS for this batch failed low. The value was 155.13 mg/L.

Method(s) SM 5210B: The seed correction factor was above the method range of 0.6 to 1.0. SCF = 1.12. Results may be biased low.

Method(s) SM 5210B: Sample was originally set within holding time but due to the laboratory control sample (LCS) failing outside acceptance criteria, the sample needed to be reset outside of holding time. Both sets of data have been reported. Post-Carbon (480-2997-1)

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method: 8021B - Volatile Organic Compounds (GC)

1,2,4-Trimethylbenzene

Lab Sample ID: 480-2995-1

TestAmerica Job ID: 480-2995-1

Matrix: Wastewater

Client Sample ID: Pre-Carbon Date Collected: 03/28/11 12:20

Date Received: 03/28/11 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			03/30/11 08:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/11 08:02	1
1,1,2-Trichloroethane	ND		1.0	0.23				03/30/11 08:02	1
1,1-Dichloroethane	ND		1.0		ug/L			03/30/11 08:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/11 08:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/11 08:02	1
1,2-Dichloroethene, Total	5.5		2.0	0.70	ug/L			03/30/11 08:02	1
1,2-Dichloropropane	ND		1.0	0.72				03/30/11 08:02	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/11 08:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/11 08:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/30/11 08:02	1
Acetone	ND		10	3.0	ug/L			03/30/11 08:02	1
Bromodichloromethane	0.65	J	1.0		ug/L			03/30/11 08:02	1
Bromoform	ND		1.0	0.26				03/30/11 08:02	1
Bromomethane	ND		1.0	0.69				03/30/11 08:02	1
Carbon disulfide	ND		1.0		ug/L			03/30/11 08:02	1
Carbon tetrachloride	ND		1.0	0.27	_			03/30/11 08:02	1
Chlorobenzene	ND		1.0		ug/L			03/30/11 08:02	1
Dibromochloromethane	ND		1.0	0.32				03/30/11 08:02	1
Chloroethane	ND		1.0	0.32				03/30/11 08:02	1
Chloroform	5.4		1.0	0.34				03/30/11 08:02	1
Chloromethane	ND		1.0	0.35				03/30/11 08:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36				03/30/11 08:02	1
Methylene Chloride	ND		1.0		ug/L			03/30/11 08:02	1
Styrene	ND		1.0		ug/L			03/30/11 08:02	1
Tetrachloroethene	ND		1.0	0.36	_			03/30/11 08:02	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/30/11 08:02	1
Trichloroethene	ND		1.0		ug/L			03/30/11 08:02	1
Vinyl chloride	1.3		1.0	0.90	_			03/30/11 08:02	1
Vinyl acetate	ND		5.0		ug/L			03/30/11 08:02	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Anglyzad	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91	Quanner	66 - 137			-	riepaieu	Analyzed 03/30/11 08:02	
Toluene-d8 (Surr)	87		71 - 126					03/30/11 08:02	. 1
4-Bromofluorobenzene (Surr)	86		73 - 120					03/30/11 08:02	1
Mothod: 9260P Volatile Organ	nic Compounds	(CC/MS) D	ı.						
Method: 8260B - Volatile Orgar Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2900		40	16	ug/L			03/31/11 00:27	40
Ethylbenzene	270		40	30	ug/L			03/31/11 00:27	40
Toluene	800		40	20	ug/L			03/31/11 00:27	40
Xylenes, Total	250		80	26	ug/L			03/31/11 00:27	40
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137			-		03/31/11 00:27	40
Toluene-d8 (Surr)	92		71 - 126					03/31/11 00:27	40

RL

2.0

Page 7 of 19

Result Qualifier

10

MDL Unit

0.35 ug/L

Dil Fac

Analyzed

04/04/11 12:04

Prepared

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-2995-1

TestAmerica Job ID: 480-2995-1

Client Sample ID: Pre-Carbon Date Collected: 03/28/11 12:20 **Matrix: Wastewater**

Date Received: 03/28/11 12:30

Date Received: 03/28/11 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			04/04/11 12:04	10
Benzene	510	E	2.0	0.23	ug/L			04/04/11 12:04	10
Ethylbenzene	220		2.0	0.29	ug/L			04/04/11 12:04	10
Isopropylbenzene	1.0	J	2.0	0.27	ug/L			04/04/11 12:04	10
Methyl tert-butyl ether	1.9	J	4.0	0.44	ug/L			04/04/11 12:04	10
m,p-Xylene	87		4.0	0.54	ug/L			04/04/11 12:04	10
n-Butylbenzene	ND		2.0	0.31	ug/L			04/04/11 12:04	10
n-Propylbenzene	ND		2.0	1.3	ug/L			04/04/11 12:04	10
o-Xylene	49		2.0	0.27	ug/L			04/04/11 12:04	10
p-Cymene	ND		2.0	0.30	ug/L			04/04/11 12:04	10
sec-Butylbenzene	ND		2.0	0.20	ug/L			04/04/11 12:04	10
Toluene	470		2.0	0.36	ug/L			04/04/11 12:04	10
Xylenes, Total	140		6.0	0.54	ug/L			04/04/11 12:04	10

Method: 8021B - Volatile Organic (Compounds (GC) - DL						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2800 H	10	1.2 ug/L			04/13/11 13:33	50
_							

Method: 200.7 Rev 4.4 - Metals (IC	P)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	157000 B	500	100	ug/L		03/29/11 10:40	03/30/11 18:35	1
Iron	165	50.0	19.3	ug/L		03/29/11 10:40	03/30/11 18:35	1
Magnesium	66600	200	43.4	ug/L		03/29/11 10:40	03/30/11 18:35	1
Potassium	4110	500	200	ug/L		03/29/11 10:40	03/30/11 18:35	1
Sodium	72900	1000	324	ug/L		03/29/11 10:40	03/30/11 18:35	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		1.0	0.56	mg/L			03/31/11 11:51	2
Sulfate	169		4.0	0.70	mg/L			03/31/11 11:51	2
Alkalinity, Total	550	В	100	40.0	mg/L			03/31/11 12:07	10

Client Sample ID: Post-Carbon Lab Sample ID: 480-2997-1 Date Collected: 03/28/11 12:15 **Matrix: Wastewater**

Analyte	Result Qu	ıalifier R	L MD	Lι	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND	1.	0.8	2 ι	ug/L			03/30/11 20:10	1
1,1,2,2-Tetrachloroethane	ND	1.	0 0.2	1 ι	ug/L			03/30/11 20:10	1
1,1,2-Trichloroethane	ND	1.	0 0.2	3 ι	ug/L			03/30/11 20:10	1
1,1-Dichloroethane	ND	1.	0 0.3	8 ι	ug/L			03/30/11 20:10	1
1,1-Dichloroethene	ND	1.	0 0.2	9 ι	ug/L			03/30/11 20:10	1
1,2-Dichloroethane	ND	1.	0 0.2	1 ι	ug/L			03/30/11 20:10	1
1,2-Dichloroethene, Total	ND	2	0 0.7	0 ι	ug/L			03/30/11 20:10	1
1,2-Dichloropropane	ND	1.	0 0.7	2 ι	ug/L			03/30/11 20:10	1
2-Hexanone	ND	5	0 1.	2 ι	ug/L			03/30/11 20:10	1
2-Butanone (MEK)	ND	1	0 1.	3 ι	ug/L			03/30/11 20:10	1
4-Methyl-2-pentanone (MIBK)	ND	5	0 2.	1 ι	ug/L			03/30/11 20:10	1
Acetone	ND	1	0 3.	0 ι	ug/L			03/30/11 20:10	1
Benzene	ND	1.	0 0.4	1 i	ug/L			03/30/11 20:10	1

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TestAmerica Buffalo 04/18/2011

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-2997-1

Matrix: Wastewater

TestAmerica Job ID: 480-2995-1

Client Sample ID: Post-Carbon

Date Collected: 03/28/11 12:15 Date Received: 03/28/11 12:30

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND	1.0	0.39	ug/L			03/30/11 20:10	1
Bromoform	ND	1.0	0.26	ug/L			03/30/11 20:10	1
Bromomethane	ND	1.0	0.69	ug/L			03/30/11 20:10	1
Carbon disulfide	ND	1.0	0.19	ug/L			03/30/11 20:10	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			03/30/11 20:10	1
Chlorobenzene	ND	1.0	0.75	ug/L			03/30/11 20:10	1
Dibromochloromethane	ND	1.0	0.32	ug/L			03/30/11 20:10	1
Chloroethane	ND	1.0	0.32	ug/L			03/30/11 20:10	1
Chloroform	ND	1.0	0.34	ug/L			03/30/11 20:10	1
Chloromethane	ND	1.0	0.35	ug/L			03/30/11 20:10	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			03/30/11 20:10	1
Ethylbenzene	ND	1.0	0.74	ug/L			03/30/11 20:10	1
Methylene Chloride	ND	1.0	0.44	ug/L			03/30/11 20:10	1
Styrene	ND	1.0	0.73	ug/L			03/30/11 20:10	1
Tetrachloroethene	ND	1.0	0.36	ug/L			03/30/11 20:10	1
Toluene	1.3	1.0	0.51	ug/L			03/30/11 20:10	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			03/30/11 20:10	1
Trichloroethene	ND	1.0	0.46	ug/L			03/30/11 20:10	1
Vinyl chloride	ND	1.0	0.90	ug/L			03/30/11 20:10	1
Vinyl acetate	ND	5.0	0.85	ug/L			03/30/11 20:10	1
Xylenes, Total	2.0	2.0	0.66	ug/L			03/30/11 20:10	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		03/30/11 20:10	1
Toluene-d8 (Surr)	90		71 - 126		03/30/11 20:10	1
4-Bromofluorobenzene (Surr)	88		73 - 120		03/30/11 20:10	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4.7	0.57	ug/L		03/29/11 10:47	04/07/11 22:51	1
Acenaphthene	ND		4.7	0.39	ug/L		03/29/11 10:47	04/07/11 22:51	1
Acenaphthylene	ND		4.7	0.36	ug/L		03/29/11 10:47	04/07/11 22:51	1
Anthracene	ND		4.7	0.27	ug/L		03/29/11 10:47	04/07/11 22:51	1
Benzo[a]anthracene	ND		4.7	0.34	ug/L		03/29/11 10:47	04/07/11 22:51	1
Benzo[a]pyrene	ND		4.7	0.45	ug/L		03/29/11 10:47	04/07/11 22:51	1
Benzo[b]fluoranthene	ND		4.7	0.32	ug/L		03/29/11 10:47	04/07/11 22:51	1
Benzo[g,h,i]perylene	0.49	JB	4.7	0.33	ug/L		03/29/11 10:47	04/07/11 22:51	1
Benzo[k]fluoranthene	ND		4.7	0.69	ug/L		03/29/11 10:47	04/07/11 22:51	1
Biphenyl	ND		4.7	0.62	ug/L		03/29/11 10:47	04/07/11 22:51	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.7	ug/L		03/29/11 10:47	04/07/11 22:51	1
Carbazole	ND		4.7	0.28	ug/L		03/29/11 10:47	04/07/11 22:51	1
Chrysene	ND		4.7	0.31	ug/L		03/29/11 10:47	04/07/11 22:51	1
Dibenz(a,h)anthracene	0.42	JB	4.7	0.40	ug/L		03/29/11 10:47	04/07/11 22:51	1
Dibenzofuran	ND		9.5	0.48	ug/L		03/29/11 10:47	04/07/11 22:51	1
Fluoranthene	ND		4.7	0.38	ug/L		03/29/11 10:47	04/07/11 22:51	1
Fluorene	ND		4.7	0.34	ug/L		03/29/11 10:47	04/07/11 22:51	1
Indeno[1,2,3-cd]pyrene	0.49	JB	4.7	0.45	ug/L		03/29/11 10:47	04/07/11 22:51	1
Naphthalene	ND		4.7	0.72	ug/L		03/29/11 10:47	04/07/11 22:51	1
Pentachlorophenol	ND		9.5	2.1	ug/L		03/29/11 10:47	04/07/11 22:51	1
Phenanthrene	ND		4.7	0.42	ug/L		03/29/11 10:47	04/07/11 22:51	1
Phenol	ND		4.7	0.37	ug/L		03/29/11 10:47	04/07/11 22:51	1

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-2997-1

TestAmerica Job ID: 480-2995-1

Matrix: Wastewater

Client Sample ID: Post-Carbon

Date Collected: 03/28/11 12:15 Date Received: 03/28/11 12:30

Method: 8270C - Semivolatile Orga	anic Compou	nds (GC/MS) (Continued)
Analyte	Result	Qualifier	RL
Pyrene	ND		4.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND	-	4.7	0.32	ug/L		03/29/11 10:47	04/07/11 22:51	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	124		52 - 132				03/29/11 10:47	04/07/11 22:51	1
2-Fluorobiphenyl	83		48 - 120				03/29/11 10:47	04/07/11 22:51	1
2-Fluorophenol	40		20 - 120				03/29/11 10:47	04/07/11 22:51	1
Nitrobenzene-d5	85		46 - 120				03/29/11 10:47	04/07/11 22:51	1
p-Terphenyl-d14	86		24 - 136				03/29/11 10:47	04/07/11 22:51	1
Phenol-d5	29		16 - 120				03/29/11 10:47	04/07/11 22:51	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND ND		0.20	0.035	ug/L			04/01/11 13:10	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			04/01/11 13:10	1
Benzene	0.64		0.20	0.023	ug/L			04/01/11 13:10	1
Ethylbenzene	0.15 J	J	0.20	0.029	ug/L			04/01/11 13:10	1
Isopropylbenzene	ND		0.20	0.027	ug/L			04/01/11 13:10	1
Methyl tert-butyl ether	ND		0.40	0.044	ug/L			04/01/11 13:10	1
m,p-Xylene	ND		0.40	0.054	ug/L			04/01/11 13:10	1
n-Butylbenzene	ND		0.20	0.031	ug/L			04/01/11 13:10	1
n-Propylbenzene	ND		0.20	0.13	ug/L			04/01/11 13:10	1
o-Xylene	ND		0.20	0.027	ug/L			04/01/11 13:10	1
p-Cymene	ND		0.20	0.030	ug/L			04/01/11 13:10	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			04/01/11 13:10	1
Toluene	0.31		0.20	0.036	ug/L			04/01/11 13:10	1
Xylenes, Total	ND		0.60	0.054	ug/L			04/01/11 13:10	1

Mathad, COO	Ouganashlarina	Pesticides in Water
- Iviernoo: bub -	Urganochiorine	Pesticioes in water

DCB Decachlorobiphenyl

Tetrachloro-m-xylene

Method: 608 - Organochlor	ine Pesticides in Wate	r						
Analyte	Result Q	_	L MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND ND	0.04	8 0.0063	ug/L		04/01/11 09:18	04/04/11 15:12	1
alpha-BHC	ND	0.04	8 0.0063	ug/L		04/01/11 09:18	04/04/11 15:12	1
beta-BHC	ND	0.04	8 0.024	ug/L		04/01/11 09:18	04/04/11 15:12	1
delta-BHC	ND	0.04	8 0.0096	ug/L		04/01/11 09:18	04/04/11 15:12	1
gamma-BHC (Lindane)	ND	0.04	8 0.0058	ug/L		04/01/11 09:18	04/04/11 15:12	1
Chlordane (technical)	ND	0.4	8 0.028	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDD	ND	0.04	8 0.0088	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDE	ND	0.04	8 0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDT	ND	0.04	8 0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
Dieldrin	ND	0.04	8 0.0094	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan I	ND	0.04	8 0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan II	ND	0.04	8 0.012	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan sulfate	ND	0.04	8 0.015	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endrin	ND	0.04	8 0.013	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endrin aldehyde	ND	0.04	8 0.016	ug/L		04/01/11 09:18	04/04/11 15:12	1
Heptachlor	ND	0.04	8 0.0082	ug/L		04/01/11 09:18	04/04/11 15:12	1
Heptachlor epoxide	ND	0.04	8 0.0051	ug/L		04/01/11 09:18	04/04/11 15:12	1
Toxaphene	ND	0.4	8 0.12	ug/L		04/01/11 09:18	04/04/11 15:12	1
Surrogate	% Recovery Q	Qualifier Limits				Prepared	Analyzed	Dil Fac

TestAmerica Buffalo

04/18/2011

04/01/11 09:18 04/04/11 15:12

26 - 145

25 - 152

89

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Post-Carbon Lab Sample ID: 480-2997-1

Date Collected: 03/28/11 12:15 Matrix: Wastewater

Date Received: 03/28/11 12:30

Biochemical Oxygen Demand

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0	5.6	ug/L		03/29/11 10:40	03/30/11 18:37	1
Iron	81.9		50.0	19.3	ug/L		03/29/11 10:40	03/30/11 18:37	1
Manganese	8.0		3.0	0.30	ug/L		03/29/11 10:40	03/30/11 18:37	1
Zinc	6.5	J	10.0	1.7	ug/L		03/29/11 10:40	03/30/11 18:37	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.9	1.4	mg/L		03/29/11 10:21	03/29/11 11:21	1
Cyanide, Total	0.16		0.010	0.0050	mg/L		03/28/11 15:53	03/29/11 12:08	1
Phenolics, Total Recoverable	ND	*	0.010	0.0050	mg/L		04/07/11 11:03	04/08/11 14:23	1
Total Dissolved Solids	872		10.0	4.0	mg/L			03/29/11 16:15	1
Biochemical Oxygen Demand	ND	*	2.0	2.0	mg/L			03/30/11 11:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/28/11 15:51	1
pH	7.90	HF	0.100	0.100	SU			03/28/11 23:09	1
- General Chemistry - RA									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

2.0

2.0 mg/L

ND H

TestAmerica Job ID: 480-2995-1

04/05/11 17:15

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Pre-Carbon Lab Sample ID: 480-2995-1

Date Collected: 03/28/11 12:20 **Matrix: Wastewater** Date Received: 03/28/11 12:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10049	03/30/11 08:02	LH	TestAmerica Buffalo
Total/NA	Analysis	8260B	DL	40	10205	03/31/11 00:27	LH	TestAmerica Buffalo
Total/NA	Analysis	8021B		10	10566	04/04/11 12:04	DB	TestAmerica Buffalo
Total/NA	Analysis	8021B	DL	50	11804	04/13/11 13:33	DB	TestAmerica Buffalo
Total/NA	Prep	200.7			9935	03/29/11 10:40	MM	TestAmerica Buffalo
Total/NA	Analysis	200.7 Rev 4.4		1	10228	03/30/11 18:35	LH	TestAmerica Buffalo
Total/NA	Analysis	300.0		2	10239	03/31/11 11:51	RMM	TestAmerica Buffalo
Total/NA	Analysis	310.2		10	10311	03/31/11 12:07	RF	TestAmerica Buffalo

Lab Sample ID: 480-2997-1 **Client Sample ID: Post-Carbon**

Date Collected: 03/28/11 12:15 **Matrix: Wastewater** Date Received: 03/28/11 12:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Γotal/NA	Analysis	8260B		1	10100	03/30/11 20:10	CDC	TestAmerica Buffalo
Γotal/NA	Prep	3510C			9946	03/29/11 10:47	KV	TestAmerica Buffalo
Γotal/NA	Analysis	8270C		1	11126	04/07/11 22:51	JLG	TestAmerica Buffalo
Γotal/NA	Analysis	8021B		1	10365	04/01/11 13:10	DB	TestAmerica Buffalo
Γotal/NA	Prep	3510C			10380	04/01/11 09:18	KV	TestAmerica Buffalo
Γotal/NA	Analysis	608		1	10570	04/04/11 15:12	LW	TestAmerica Buffalo
Γotal/NA	Prep	200.7			9935	03/29/11 10:40	MM	TestAmerica Buffalo
Γotal/NA	Analysis	200.7 Rev 4.4		1	10228	03/30/11 18:37	LH	TestAmerica Buffalo
Γotal/NA	Analysis	SM 2540C		1	10031	03/29/11 16:15	JN	TestAmerica Buffalo
Γotal/NA	Analysis	SM 5210B		1	10130	03/30/11 11:53	AP	TestAmerica Buffalo
Γotal/NA	Analysis	SM 5210B	RA	1	10839	04/05/11 17:15	ML	TestAmerica Buffalo
Γotal/NA	Prep	Distill/Phenol			11078	04/07/11 11:03	JE	TestAmerica Buffalo
Γotal/NA	Analysis	420.4		1	11326	04/08/11 14:23	JM	TestAmerica Buffalo
Γotal/NA	Analysis	SM 2540D		1	9862	03/28/11 15:51	RL	TestAmerica Buffalo
Γotal/NA	Analysis	SM 4500 H+ B		1	9895	03/28/11 23:09	RL	TestAmerica Buffalo
Γotal/NA	Prep	1664A			9934	03/29/11 10:21	JM	TestAmerica Buffalo
Γotal/NA	Analysis	1664A		1	9949	03/29/11 11:21	JM	TestAmerica Buffalo
Γotal/NA	Prep	Distill/CN			9896	03/28/11 15:53	ML	TestAmerica Buffalo
Γotal/NA	Analysis	335.4		1	9967	03/29/11 12:08	RF	TestAmerica Buffalo

TestAmerica Job ID: 480-2995-1

Certification Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo		USDA		P330-08-00242
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method **Method Description** Protocol Laboratory 8260B Volatile Organic Compounds (GC/MS) SW846 TAL BUF 8270C Semivolatile Organic Compounds (GC/MS) SW846 TAL BUF 8021B Volatile Organic Compounds (GC) SW846 TAL BUF 608 Organochlorine Pesticides in Water 40CFR136A TAL BUF 200.7 Rev 4.4 Metals (ICP) **EPA** TAL BUF 1664A HEM and SGT-HEM 1664A TAL BUF 300.0 Anions, Ion Chromatography MCAWW TAL BUF 310.2 Alkalinity **MCAWW** TAL BUF MCAWW 335.4 Cyanide, Total TAL BUF Phenolics, Total Recoverable MCAWW TAL BUF 420.4 SM 2540C Solids, Total Dissolved (TDS) SM TAL BUF SM 2540D Solids, Total Suspended (TSS) SM TAL BUF SM 4500 H+ B SM TAL BUF

Protocol References:

SM 5210B

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

BOD, 5-Day

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-2995-1

TAL BUF

SM

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Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-2995-1	Pre-Carbon	Wastewater	03/28/11 12:20	03/28/11 12:30
480-2997-1	Post-Carbon	Wastewater	03/28/11 12:15	03/28/11 12:30

TestAmerica Job ID: 480-2995-1

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



Priorie (716) 691-2000 Pax (716) 691-7891	Summer			Tueb P	51:						In	anter Tra	ckina Na	Jeu		CCC No.	
Cilent Information	Surprep Sinc of Phone: 1-8000	- M:1	100	Fisc	her, Bri	an						##	L KITY MU	/ > f.		480-8778-1179.1	<u> </u>
Clerk Conset Thomas Palmer	1-800°	<u> 287 </u>	-7857	7 E-Mai brian	n n.fische	1 Q 18:	stam	Brica	lng.ç	ÇM1						Page: Page 1 of 1	
Company: Groundwater & Environmental Services Inc									Ana	leyla	e Requ	ested				Job #:	
Address: 158 Sonwil Drive	Due Date Request	ed;								Ť	\Box				ŀ	Preservation Cod	e4:
Gty: Cheektowaga	TAT Requested (d	aye):														A - HCL B - NaOH C - Zn Acetale	M - Hecome N - Mone O - Anneck
State, Zrpx NPY, 14225	1								ត្ត							D - Niric Add E - NaMSQ4	P - N82045 Q - N82503
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Emsk tpalmar@gasonline.com	₩0#				2± δ 9	[월	٩	100	?						ـــ ا	l · lce J · DiWener	U - Acetore V - MCAA
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Tesi America Buffalo

10 Hazelwood Orive

Amherst, NY 14228-2298

Phone (716) 691-2600 Fex (716) 691-7991

Chain of Custody Record

<u>TestAmerica</u>

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Client: New York State D.E.C.

Job Number: 480-2995-1

Login Number: 2995

List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	TEMP OF 5.8 SAME DAY SAMPLING
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Client: New York State D.E.C. Job Number: 480-2995-1

Login Number: 2997 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	TEMP 5.8, SAME DAY SAMPLING
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-5769-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Qtrly Post-Carbon **Qtrly Pre-Carbon**

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by: 06/23/2011 11:03:36 AM

Brian Fischer Project Manager II

brian.fischer@testamericainc.com

.....LINKS **Review your project** results through Total Access

Have a Question?



Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature. 06/23/2011

Page 1 of 19

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

I certify that this data package is in compliance with the terms and conditions of the

Brian Fischer Project Manager II

06/23/2011 11:03:36 AM

TestAmerica Job ID: 480-5769-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description					
В	Compound was found in the blank and sample.					
HF	Field parameter with a holding time of 15 minutes					

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde{\	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Job ID: 480-5769-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-5769-1

Comments

No additional comments.

Receipt

The following sample was received at the laboratory outside the required temperature criteria: .

The following sample was received at the laboratory outside the required temperature criteria: .

All other samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Pre-Carbon (480-5769-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-5769-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 19367 the following sample was diluted due to the abundance of target analytes: Pre-Carbon (480-5769-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8021B: The following sample was diluted due to abundance of target analytes: Pre-Carbon (480-5769-1). Therefore, elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 310.2: The method blank for batch 16535 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) SM 5210B: The dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L.

Method(s) 9040B, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-5770-1)

No other analytical or quality issues were noted.

TestAmerica Job ID: 480-5769-1

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Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Job ID: 480-5769-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Organic Prep

No analytical or quality issues were noted.

TestAmerica Job ID: 480-5769-1

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Client: New York State D.E.C.

Date Collected: 06/07/11 13:30

Date Received: 06/07/11 13:45

Client Sample ID: Pre-Carbon

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5769-1

TestAmerica Job ID: 480-5769-1

Matrix: Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/11/11 16:23	- 2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/11/11 16:23	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/11/11 16:23	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/11/11 16:23	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/11/11 16:23	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/11/11 16:23	2
1,2-Dichloroethene, Total	2.5	J	4.0	1.4	ug/L			06/11/11 16:23	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/11/11 16:23	2
2-Hexanone	ND		10	2.5	ug/L			06/11/11 16:23	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/11/11 16:23	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/11/11 16:23	2
Acetone	7.6	J	20	6.0	ug/L			06/11/11 16:23	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/11/11 16:23	2
Bromoform	ND		2.0	0.52	ug/L			06/11/11 16:23	2
Bromomethane	ND		2.0	1.4	ug/L			06/11/11 16:23	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/11/11 16:23	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/11/11 16:23	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/11/11 16:23	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/11/11 16:23	2
Chloroethane	ND		2.0	0.64	ug/L			06/11/11 16:23	2
Chloroform	46		2.0	0.68	ug/L			06/11/11 16:23	2
Chloromethane	ND		2.0	0.70	ug/L			06/11/11 16:23	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/11/11 16:23	2
Ethylbenzene	120		2.0	1.5	ug/L			06/11/11 16:23	2
Methylene Chloride	0.95	J	2.0	0.88	ug/L			06/11/11 16:23	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/11/11 16:23	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/11/11 16:23	2
Trichloroethene	ND		2.0	0.92	ug/L			06/11/11 16:23	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/11/11 16:23	2
Vinyl acetate	ND		10	1.7	ug/L			06/11/11 16:23	2
Xylenes, Total	440		4.0	1.3	ug/L			06/11/11 16:23	2
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 137			_		06/11/11 16:23	2
Toluene-d8 (Surr)	87		71 - 126					06/11/11 16:23	2

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 137		06/11/11 16:23	2
Toluene-d8 (Surr)	87		71 - 126		06/11/11 16:23	2
4-Bromofluorobenzene (Surr)	90		73 - 120		06/11/11 16:23	2

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3700		50	21	ug/L			06/16/11 13:58	50
Styrene	450		50	37	ug/L			06/16/11 13:58	50
Toluene	1900		50	26	ug/L			06/16/11 13:58	50

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		06/16/11 13:58	50
Toluene-d8 (Surr)	112		71 - 126		06/16/11 13:58	50
4-Bromofluorobenzene (Surr)	108		73 - 120		06/16/11 13:58	50

Method: 8021B - '	Volatile Org	anic Compoun	de (GC)

-1	mothod: out ib volutile organie	Joinpounds (GG)						
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	1,2,4-Trimethylbenzene	46	2.0	0.35 ug/L			06/21/11 11:38	10

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5769-1

Client Sample ID: Pre-Carbon Date Collected: 06/07/11 13:30 **Matrix: Wastewater**

Date Received: 06/07/11 13:45

Xylenes, Total

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	15	2.0	1.5	ug/L			06/21/11 11:38	10
Ethylbenzene	140	2.0	0.29	ug/L			06/21/11 11:38	10
Isopropylbenzene	1.1 J	2.0	0.27	ug/L			06/21/11 11:38	10
Methyl tert-butyl ether	ND	4.0	0.44	ug/L			06/21/11 11:38	10
m,p-Xylene	360	4.0	0.54	ug/L			06/21/11 11:38	10
n-Butylbenzene	ND	2.0	0.31	ug/L			06/21/11 11:38	10
n-Propylbenzene	ND	2.0	1.3	ug/L			06/21/11 11:38	10
p-Cymene	ND	2.0	0.30	ug/L			06/21/11 11:38	10
sec-Butylbenzene	ND	2.0	0.20	ug/L			06/21/11 11:38	10

Method: 8021B - Volatile Organic Compounds (GC) - DL											
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	2900	10	1.2	ug/L			06/21/11 12:18	50			
o-Xylene	170	10	1.4	ug/L			06/21/11 12:18	50			
Toluene	1500	10	1.8	ug/L			06/21/11 12:18	50			

6.0

1100

0.54 ug/L

(P)							
Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
136000	500	100	ug/L		06/09/11 10:50	06/10/11 14:23	1
186	50.0	19.3	ug/L		06/09/11 10:50	06/10/11 14:23	1
81400	200	43.4	ug/L		06/09/11 10:50	06/10/11 14:23	1
3670	500	200	ug/L		06/09/11 10:50	06/10/11 14:23	1
65500	1000	324	ug/L		06/09/11 10:50	06/10/11 14:23	1
	136000 186 81400 3670	Result 136000 Qualifier RL 5000 186 50.0 81400 200 3670 500	Result 136000 Qualifier RL 500 MDL 100 186 50.0 19.3 81400 200 43.4 3670 500 200	Result Qualifier RL MDL Unit 136000 500 100 ug/L 186 50.0 19.3 ug/L 81400 200 43.4 ug/L 3670 500 200 ug/L	Result 136000 Qualifier RL 500 MDL 100 ug/L ug/L Unit ug/L D 186 50.0 19.3 ug/L ug/L 43.4 ug/L 3670 500 200 ug/L 200 ug/L 43.4 ug	Result 136000 Qualifier RL Prepared MDL Unit Ug/L Ug/L D 06/09/11 10:50 186 50.0 19.3 ug/L 06/09/11 10:50 81400 200 43.4 ug/L 06/09/11 10:50 3670 500 200 ug/L 06/09/11 10:50	Result 136000 Qualifier RL Prepared No. 100 ug/L Description of the prepared of the

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		1.0	0.56	mg/L			06/10/11 05:05	2
Sulfate	177		4.0	0.70	mg/L			06/10/11 05:05	2
Alkalinity, Total	483	В	100	40.0	mg/L			06/14/11 13:25	10

Client Sample ID: Post-Carbon Lab Sample ID: 480-5770-1 Date Collected: 06/07/11 13:25 **Matrix: Wastewater**

Date Received: 06/07/11 13:45

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/16/11 00:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/16/11 00:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/16/11 00:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/16/11 00:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/16/11 00:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/16/11 00:23	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			06/16/11 00:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/16/11 00:23	1
2-Hexanone	ND		5.0	1.2	ug/L			06/16/11 00:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/16/11 00:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/16/11 00:23	1
Acetone	ND		10	3.0	ug/L			06/16/11 00:23	1
Benzene	ND		1.0	0.41	ug/L			06/16/11 00:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/16/11 00:23	1

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06/21/11 11:38

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5770-1

Date Collected: 06/07/11 13:25 Matrix: Wastewater

Date Received: 06/07/11 13:45

Client Sample ID: Post-Carbon

Method: 8260B -	Volatile Orga	anic Compound	Is (GC/MS)	(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			06/16/11 00:23	1
Bromomethane	ND		1.0	0.69	ug/L			06/16/11 00:23	1
Carbon disulfide	6.3		1.0	0.19	ug/L			06/16/11 00:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/16/11 00:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/16/11 00:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/16/11 00:23	1
Chloroethane	ND		1.0	0.32	ug/L			06/16/11 00:23	1
Chloroform	ND		1.0	0.34	ug/L			06/16/11 00:23	1
Chloromethane	1.4		1.0	0.35	ug/L			06/16/11 00:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/16/11 00:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/16/11 00:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/16/11 00:23	1
Styrene	ND		1.0	0.73	ug/L			06/16/11 00:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/16/11 00:23	1
Toluene	ND		1.0	0.51	ug/L			06/16/11 00:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/16/11 00:23	1
Trichloroethene	ND		1.0	0.46	ug/L			06/16/11 00:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/16/11 00:23	1
Vinyl acetate	ND		5.0	0.85	ug/L			06/16/11 00:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/16/11 00:23	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		06/16/11 00:23	1
Toluene-d8 (Surr)	102		71 - 126		06/16/11 00:23	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/16/11 00:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4.9	0.58	ug/L		06/14/11 08:44	06/15/11 15:13	1
Acenaphthene	ND		4.9	0.40	ug/L		06/14/11 08:44	06/15/11 15:13	1
Acenaphthylene	ND		4.9	0.37	ug/L		06/14/11 08:44	06/15/11 15:13	1
Anthracene	ND		4.9	0.27	ug/L		06/14/11 08:44	06/15/11 15:13	1
Benzo[a]anthracene	ND		4.9	0.35	ug/L		06/14/11 08:44	06/15/11 15:13	1
Benzo[a]pyrene	ND		4.9	0.46	ug/L		06/14/11 08:44	06/15/11 15:13	1
Benzo[b]fluoranthene	ND		4.9	0.33	ug/L		06/14/11 08:44	06/15/11 15:13	1
Benzo[g,h,i]perylene	ND		4.9	0.34	ug/L		06/14/11 08:44	06/15/11 15:13	1
Benzo[k]fluoranthene	ND		4.9	0.71	ug/L		06/14/11 08:44	06/15/11 15:13	1
Biphenyl	ND		4.9	0.63	ug/L		06/14/11 08:44	06/15/11 15:13	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.7	ug/L		06/14/11 08:44	06/15/11 15:13	1
Carbazole	ND		4.9	0.29	ug/L		06/14/11 08:44	06/15/11 15:13	1
Chrysene	ND		4.9	0.32	ug/L		06/14/11 08:44	06/15/11 15:13	1
Dibenz(a,h)anthracene	ND		4.9	0.41	ug/L		06/14/11 08:44	06/15/11 15:13	1
Dibenzofuran	ND		9.7	0.50	ug/L		06/14/11 08:44	06/15/11 15:13	1
Fluoranthene	ND		4.9	0.39	ug/L		06/14/11 08:44	06/15/11 15:13	1
Fluorene	ND		4.9	0.35	ug/L		06/14/11 08:44	06/15/11 15:13	1
Indeno[1,2,3-cd]pyrene	ND		4.9	0.46	ug/L		06/14/11 08:44	06/15/11 15:13	1
Naphthalene	ND		4.9	0.74	ug/L		06/14/11 08:44	06/15/11 15:13	1
Pentachlorophenol	ND		9.7	2.1	ug/L		06/14/11 08:44	06/15/11 15:13	1
Phenanthrene	ND		4.9	0.43	ug/L		06/14/11 08:44	06/15/11 15:13	1
Phenol	ND		4.9	0.38	ug/L		06/14/11 08:44	06/15/11 15:13	1
Pyrene	ND		4.9	0.33	ug/L		06/14/11 08:44	06/15/11 15:13	1

TestAmerica Buffalo 06/23/2011

TestAmerica Job ID: 480-5769-1

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Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5770-1 **Client Sample ID: Post-Carbon**

Date Collected: 06/07/11 13:25 Date Received: 06/07/11 13:45

TestAmerica Job ID: 480-5769-1

Matrix: Wastewater

Surrogate	% Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92	52 - 132	06/14/11 08:44	06/15/11 15:13	1
2-Fluorobiphenyl	79	48 - 120	06/14/11 08:44	06/15/11 15:13	1
2-Fluorophenol	32	20 - 120	06/14/11 08:44	06/15/11 15:13	1
Nitrobenzene-d5	64	46 - 120	06/14/11 08:44	06/15/11 15:13	1
p-Terphenyl-d14	41	24 - 136	06/14/11 08:44	06/15/11 15:13	1
Phenol-d5	26	16 - 120	06/14/11 08:44	06/15/11 15:13	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND ND	0.20	0.035	ug/L			06/21/11 13:22	1
1,3,5-Trimethylbenzene	ND	0.20	0.15	ug/L			06/21/11 13:22	1
Benzene	0.14 J	0.20	0.023	ug/L			06/21/11 13:22	1
Ethylbenzene	ND	0.20	0.029	ug/L			06/21/11 13:22	1
Isopropylbenzene	ND	0.20	0.027	ug/L			06/21/11 13:22	1
Methyl tert-butyl ether	0.13 J	0.40	0.044	ug/L			06/21/11 13:22	1
m,p-Xylene	ND	0.40	0.054	ug/L			06/21/11 13:22	1
n-Butylbenzene	ND	0.20	0.031	ug/L			06/21/11 13:22	1
n-Propylbenzene	ND	0.20	0.13	ug/L			06/21/11 13:22	1
o-Xylene	ND	0.20	0.027	ug/L			06/21/11 13:22	1
p-Cymene	ND	0.20	0.030	ug/L			06/21/11 13:22	1
sec-Butylbenzene	ND	0.20	0.020	ug/L			06/21/11 13:22	1
Toluene	0.12 J	0.20	0.036	ug/L			06/21/11 13:22	1
Xylenes, Total	ND	0.60	0.054	ug/L			06/21/11 13:22	1

Method: 608 - Organochlorine Pe	sticides in Water
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0063	ug/L		06/14/11 16:49	06/16/11 11:52	1
alpha-BHC	ND		0.048	0.0063	ug/L		06/14/11 16:49	06/16/11 11:52	1
beta-BHC	ND		0.048	0.024	ug/L		06/14/11 16:49	06/16/11 11:52	1
delta-BHC	ND		0.048	0.0096	ug/L		06/14/11 16:49	06/16/11 11:52	1
gamma-BHC (Lindane)	ND		0.048	0.0057	ug/L		06/14/11 16:49	06/16/11 11:52	1
Chlordane (technical)	ND		0.48	0.028	ug/L		06/14/11 16:49	06/16/11 11:52	1
4,4'-DDD	ND		0.048	0.0088	ug/L		06/14/11 16:49	06/16/11 11:52	1
4,4'-DDE	ND		0.048	0.011	ug/L		06/14/11 16:49	06/16/11 11:52	1
4,4'-DDT	ND		0.048	0.011	ug/L		06/14/11 16:49	06/16/11 11:52	1
Dieldrin	ND		0.048	0.0094	ug/L		06/14/11 16:49	06/16/11 11:52	1
Endosulfan I	ND		0.048	0.011	ug/L		06/14/11 16:49	06/16/11 11:52	1
Endosulfan II	ND		0.048	0.011	ug/L		06/14/11 16:49	06/16/11 11:52	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		06/14/11 16:49	06/16/11 11:52	1
Endrin	ND		0.048	0.013	ug/L		06/14/11 16:49	06/16/11 11:52	1
Endrin aldehyde	ND		0.048	0.016	ug/L		06/14/11 16:49	06/16/11 11:52	1
Heptachlor	ND		0.048	0.0081	ug/L		06/14/11 16:49	06/16/11 11:52	1
Heptachlor epoxide	ND		0.048	0.0051	ug/L		06/14/11 16:49	06/16/11 11:52	1
Toxaphene	ND		0.48	0.11	ug/L		06/14/11 16:49	06/16/11 11:52	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Tetrachloro-m-xylene	89	

DCB Decachlorobiphenyl

Method: 200.7 Rev 4.4 - Metals (ICF	P)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0	5.6	ug/L		06/09/11 10:50	06/10/11 14:25	1

26 - 145

25 - 152

06/14/11 16:49 06/16/11 11:52

06/16/11 11:52

06/14/11 16:49

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5770-1

TestAmerica Job ID: 480-5769-1

Client Sample ID: Post-Carbon

Date Collected: 06/07/11 13:25

Matrix: Wastewater

Date Received: 06/07/11 13:45

Method: 200.7 Rev 4.4 - Metals	s (ICP) (Continued)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	152	50.0	19.3	ug/L		06/09/11 10:50	06/10/11 14:25	1
Manganese	311	3.0	0.30	ug/L		06/09/11 10:50	06/10/11 14:25	1
Zinc	3.7 J	10.0	1.7	ug/L		06/09/11 10:50	06/10/11 14:25	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.9	1.4	mg/L		06/16/11 21:56	06/17/11 00:46	1
Cyanide, Total	0.33		0.010	0.0050	mg/L		06/08/11 18:30	06/09/11 11:39	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		06/08/11 22:15	06/10/11 14:34	1
Total Dissolved Solids	764		10.0	4.0	mg/L			06/08/11 08:24	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			06/09/11 00:05	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/08/11 08:39	1
pH	7.73	HF	0.100	0.100	SU			06/07/11 22:44	1

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Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-5769-1

TestAmerica Job ID: 480-5769-1

Matrix: Wastewater

Date Collected: 06/07/11 13:30

Client Sample ID: Pre-Carbon

Date Received: 06/07/11 13:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	19621	06/11/11 16:23	PJQ	TAL BUF
Total/NA	Analysis	8260B	DL	50	20243	06/16/11 13:58	LH	TAL BUF
Total/NA	Analysis	8021B		10	20828	06/21/11 11:38	DB	TAL BUF
Total/NA	Analysis	8021B	DL	50	20828	06/21/11 12:18	DB	TAL BUF
Total/NA	Prep	200.7			19267	06/09/11 10:50	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	19680	06/10/11 14:23	LH	TAL BUF
Total/NA	Analysis	300.0		2	19367	06/10/11 05:05	RF	TAL BUF
Total/NA	Analysis	310.2		10	20085	06/14/11 13:25	JR	TAL BUF

Lab Sample ID: 480-5770-1 **Client Sample ID: Post-Carbon**

Date Collected: 06/07/11 13:25 **Matrix: Wastewater**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20154	06/16/11 00:23	LH	TAL BUF
Total/NA	Prep	3510C			19851	06/14/11 08:44	KV	TAL BUF
Total/NA	Analysis	8270C		1	20011	06/15/11 15:13	MP	TAL BUF
Total/NA	Analysis	8021B		1	20828	06/21/11 13:22	DB	TAL BUF
Total/NA	Prep	3510C			19950	06/14/11 16:49	KV	TAL BUF
Total/NA	Analysis	608		1	20232	06/16/11 11:52	LW	TAL BUF
Total/NA	Prep	200.7			19267	06/09/11 10:50	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	19680	06/10/11 14:25	LH	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	19042	06/07/11 22:44	JS	TAL BUF
Total/NA	Analysis	SM 2540C		1	19063	06/08/11 08:24	PN	TAL BUF
Total/NA	Analysis	SM 2540D		1	19065	06/08/11 08:39	PN	TAL BUF
Total/NA	Analysis	SM 5210B		1	19231	06/09/11 00:05	ML	TAL BUF
Total/NA	Prep	Distill/CN			19224	06/08/11 18:30	ML	TAL BUF
Total/NA	Analysis	335.4		1	19300	06/09/11 11:39	MD	TAL BUF
Total/NA	Prep	Distill/Phenol			19219	06/08/11 22:15	KS	TAL BU
Total/NA	Analysis	420.4		1	19583	06/10/11 14:34	JR	TAL BU
Total/NA	Prep	1664A			20373	06/16/11 21:56	JS	TAL BUF
Total/NA	Analysis	1664A		1	20376	06/17/11 00:46	JS	TAL BUI

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
estAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
estAmerica Buffalo	New Hampshire	NELAC	1	2337
estAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
estAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
estAmerica Buffalo	Tennessee	State Program	4	TN02970
estAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
estAmerica Buffalo	USDA	USDA		P330-08-00242
estAmerica Buffalo	Virginia	State Program	3	278
estAmerica Buffalo	Washington	State Program	10	C1677
estAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
3021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
35.4	Cyanide, Total	MCAWW	TAL BUF
120.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-5769-1

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Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-5769-1	Pre-Carbon	Wastewater	06/07/11 13:30	06/07/11 13:45
480-5770-1	Post-Carbon	Wastewater	06/07/11 13:25	06/07/11 13:45

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TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record

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TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298

Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



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Client: New York State D.E.C.

Job Number: 480-5769-1

Login Number: 5769 List Source: TestAmerica Buffalo

List Number: 1 Creator: Rabb, Mike

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GBS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Client: New York State D.E.C.

Job Number: 480-5769-1

Login Number: 5770 List Source: TestAmerica Buffalo

List Number: 1 Creator: Rabb, Mike

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-6865-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Mthly Post-Carbon Mthly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by: 07/20/2011 02:24:44 PM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Page 1 of 15

07/20/2011



I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Brian Fischer Project Manager II 07/20/2011 02:24:44 PM

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TestAmerica Job ID: 480-6865-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Client Sample Results	6
Chronicle	8
Certification Summary	9
Method Summary	10
Sample Summary	11
Chain of Custody	12
Receipt Checklists	14

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Indicates a Re-extraction or Reanalysis of the sample.

Relative Percent Difference, a measure of the relative difference between two points.

TestAmerica Job ID: 480-6865-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

GC VOA

Qualifier	Qualifier Description	
T	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value	

General Chemistry

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes

Glossary

RE, RE1 (etc.)

%R RPD

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Job ID: 480-6865-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-6865-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 22826 the following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-6867-1). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 23114 the following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-6867-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 22906 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8021B: The following samples were diluted due to abundance of target analytes: (480-6776-8 MS), (480-6776-8 MSD), MW-F4 (480-6776-8). Therefore, elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 310.2: The method blank for batch 23805 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-6865-1)

No other analytical or quality issues were noted.

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TestAmerica Job ID: 480-6865-1

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44

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-6865-1

TestAmerica Job ID: 480-6865-1

Matrix: Wastewater

Client Sample ID: Post-Carbon

Date Collected: 07/06/11 13:15 Date Received: 07/06/11 13:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND	1.0	0.82	ug/L			07/18/11 11:33	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			07/18/11 11:33	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			07/18/11 11:33	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			07/18/11 11:33	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			07/18/11 11:33	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			07/18/11 11:33	1
1,2-Dichloroethene, Total	ND	2.0	0.70	ug/L			07/18/11 11:33	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			07/18/11 11:33	1
2-Hexanone	ND	5.0	1.2	ug/L			07/18/11 11:33	1
2-Butanone (MEK)	ND	10	1.3	ug/L			07/18/11 11:33	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			07/18/11 11:33	1
Acetone	ND	10	3.0	ug/L			07/18/11 11:33	1
Benzene	ND	1.0	0.41	ug/L			07/18/11 11:33	1
Bromodichloromethane	ND	1.0	0.39	ug/L			07/18/11 11:33	1
Bromoform	ND	1.0	0.26	ug/L			07/18/11 11:33	1
Bromomethane	ND	1.0	0.69	ug/L			07/18/11 11:33	1
Carbon disulfide	0.72 J	1.0	0.19	ug/L			07/18/11 11:33	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			07/18/11 11:33	1
Chlorobenzene	ND	1.0	0.75	ug/L			07/18/11 11:33	1
Dibromochloromethane	ND	1.0	0.32	ug/L			07/18/11 11:33	1
Chloroethane	ND	1.0	0.32	ug/L			07/18/11 11:33	1
Chloroform	ND	1.0	0.34	ug/L			07/18/11 11:33	1
Chloromethane	ND	1.0	0.35	ug/L			07/18/11 11:33	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			07/18/11 11:33	1
Ethylbenzene	ND	1.0	0.74	ug/L			07/18/11 11:33	1
Methylene Chloride	ND	1.0	0.44	ug/L			07/18/11 11:33	1
Styrene	ND	1.0	0.73	ug/L			07/18/11 11:33	1
Tetrachloroethene	ND	1.0	0.36	ug/L			07/18/11 11:33	1
Toluene	ND	1.0	0.51	ug/L			07/18/11 11:33	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			07/18/11 11:33	1
Trichloroethene	ND	1.0	0.46	ug/L			07/18/11 11:33	1
Vinyl chloride	ND	1.0	0.90	ug/L			07/18/11 11:33	1
Vinyl acetate	ND	5.0	0.85	ug/L			07/18/11 11:33	1
Xylenes, Total	ND	2.0	0.66	ug/L			07/18/11 11:33	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		07/18/11 11:33	1
Toluene-d8 (Surr)	108		71 - 126		07/18/11 11:33	1
4-Bromofluorobenzene (Surr)	101		73 - 120		07/18/11 11:33	1

Method: 8021B - Volatile Organic Compounds (GC)

Welliou. 002 ID - Volatile Orga	inc compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20	0.035	ug/L			07/09/11 03:10	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			07/09/11 03:10	1
Benzene	0.13	J	0.20	0.023	ug/L			07/09/11 03:10	1
Ethylbenzene	ND		0.20	0.029	ug/L			07/09/11 03:10	1
Isopropylbenzene	ND		0.20	0.027	ug/L			07/09/11 03:10	1
Methyl tert-butyl ether	0.082	J	0.40	0.044	ug/L			07/09/11 03:10	1
m,p-Xylene	ND		0.40	0.054	ug/L			07/09/11 03:10	1
n-Butylbenzene	ND		0.20	0.031	ug/L			07/09/11 03:10	1

Page 6 of 15

TestAmerica Buffalo 07/20/2011

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-6865-1

TestAmerica Job ID: 480-6865-1

Matrix: Wastewater

Client Sample ID: Post-Carbon

Date Collected: 07/06/11 13:15 Date Received: 07/06/11 13:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		0.20	0.13	ug/L			07/09/11 03:10	1
o-Xylene	ND		0.20	0.027	ug/L			07/09/11 03:10	1
p-Cymene	ND		0.20	0.030	ug/L			07/09/11 03:10	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			07/09/11 03:10	1
Toluene	0.14	J	0.20	0.036	ug/L			07/09/11 03:10	1
Xylenes, Total	ND		0.60	0.054	ug/L			07/09/11 03:10	1
Method: 200.7 Rev 4.4 - Metals	s (ICP)								
Method: 200.7 Rev 4.4 - Metals Analyte	Result	Qualifier	RL 50.0		Unit	<u>D</u>	Prepared 07/07/11 09:10	Analyzed 07/07/11 20:39	Dil Fac
	Result 232	Qualifier	RL 50.0	19.3	Unit ug/L	<u>D</u>	Prepared 07/07/11 09:10	Analyzed 07/07/11 20:39 Analyzed	Dil Fac
Method: 200.7 Rev 4.4 - Metals Analyte Iron General Chemistry Analyte	Result Result		50.0	19.3	ug/L Unit		07/07/11 09:10	07/07/11 20:39	1
Method: 200.7 Rev 4.4 - Metals Analyte Iron General Chemistry	Result		50.0	19.3	ug/L Unit mg/L		07/07/11 09:10 Prepared	07/07/11 20:39 Analyzed	1

Lab Sample ID: 480-6867-1 **Client Sample ID: Pre-Carbon**

Date Collected: 07/06/11 13:20 **Matrix: Wastewater**

Date Received: 07/06/11 13:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	145000		500	100	ug/L		07/07/11 09:10	07/07/11 20:41	-
Iron	605		50.0	19.3	ug/L		07/07/11 09:10	07/07/11 20:41	
Magnesium	86700		200	43.4	ug/L		07/07/11 09:10	07/07/11 20:41	
Potassium	4620		500	200	ug/L		07/07/11 09:10	07/07/11 20:41	
Sodium	85200		1000	324	ug/L		07/07/11 09:10	07/07/11 20:41	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	138		1.0	0.56	mg/L			07/08/11 13:23	
Sulfate	171		4.0	0.70	mg/L			07/12/11 11:19	:
Alkalinity, Total	1680	R	250	100	mg/L			07/16/11 11:35	2

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-6865-1

TestAmerica Job ID: 480-6865-1

Client Sample ID: Post-Carbon

Date Collected: 07/06/11 13:15 **Matrix: Wastewater** Date Received: 07/06/11 13:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	23834	07/18/11 11:33	TRB	TAL BUF
Total/NA	Analysis	8021B		1	22906	07/09/11 03:10	MN	TAL BUF
Total/NA	Prep	200.7			22702	07/07/11 09:10	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	22839	07/07/11 20:39	AH	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	22667	07/06/11 21:48	JS	TAL BUF
Total/NA	Prep	Distill/CN			22781	07/07/11 15:31	AP	TAL BUF
Total/NA	Analysis	335.4		1	22914	07/08/11 15:37	MD	TAL BUF

Client Sample ID: Pre-Carbon Lab Sample ID: 480-6867-1

Date Collected: 07/06/11 13:20 **Matrix: Wastewater** Date Received: 07/06/11 13:35

Dilution Batch Batch Batch Prepared Prep Type Method Run Factor Number Or Analyzed Analyst Lab Type Total/NA 200.7 22702 07/07/11 09:10 MM TAL BUF Prep 200.7 Rev 4.4 22839 07/07/11 20:41 TAL BUF Total/NA Analysis 1 ΑН 2 22826 07/08/11 13:23 TAL BUF Total/NA Analysis 300.0 RF Total/NA 2 23114 07/12/11 11:19 TAL BUF Analysis 300.0 RF Total/NA Analysis 310.2 25 23805 07/16/11 11:35 JR TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-6865-1 Project/Site: NYSDEC-Gastown WWTP: Site# 915171

_aboratory	Authority	Program	EPA Region	Certification ID		
TestAmerica Buffalo	Arkansas	State Program	6	88-0686		
TestAmerica Buffalo	California	NELAC	9	1169CA		
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568		
TestAmerica Buffalo	Florida	NELAC	4	E87672		
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A		
TestAmerica Buffalo	Georgia	State Program	4	956		
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003		
TestAmerica Buffalo	Iowa	State Program	7	374		
estAmerica Buffalo	Kansas	NELAC	7	E-10187		
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30		
estAmerica Buffalo	Kentucky	State Program	4	90029		
estAmerica Buffalo	Louisiana	NELAC	6	02031		
estAmerica Buffalo	Maine	State Program	1	NY0044		
estAmerica Buffalo	Maryland	State Program	3	294		
estAmerica Buffalo	Massachusetts	State Program	1	M-NY044		
estAmerica Buffalo	Michigan	State Program	5	9937		
estAmerica Buffalo	Minnesota	NELAC	5	036-999-337		
estAmerica Buffalo	New Hampshire	NELAC	1	68-00281		
estAmerica Buffalo	New Hampshire	NELAC	1	2337		
estAmerica Buffalo	New Jersey	NELAC	2	NY455		
estAmerica Buffalo	New York	NELAC	2	10026		
estAmerica Buffalo	North Dakota	State Program	8	R-176		
estAmerica Buffalo	Oklahoma	State Program	6	9421		
estAmerica Buffalo	Oregon	NELAC	10	NY200003		
estAmerica Buffalo	Pennsylvania	NELAC	3	68-00281		
estAmerica Buffalo	Tennessee	State Program	4	TN02970		
estAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX		
estAmerica Buffalo	USDA	USDA		P330-08-00242		
estAmerica Buffalo	Virginia	State Program	3	278		
estAmerica Buffalo	Washington	State Program	10	C1677		
estAmerica Buffalo	West Virginia	West Virginia DEP	3	252		
estAmerica Buffalo	Wisconsin	State Program	5	998310390		

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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TestAmerica Job ID: 480-6865-1

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Sample Summary

Matrix

Wastewater

Wastewater

Client: New York State D.E.C.

Lab Sample ID

480-6865-1

480-6867-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID

Post-Carbon

Pre-Carbon

07/06/11 13:20

TestAmerica Job ID: 480-6865-1

07/06/11 13:35

Collected Received 07/06/11 13:15 07/06/11 13:35

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298 Phone (716) 691-2800 Fax (716) 691-7991

Chain of Custody Record

DS-BY

<u>TestAmerica</u>

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TestAmerica Buffalo 10 Hazelwood Drive Amherst, MY 14223-7298

Chain of Custody Record

<u>TestAmerica</u>

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Client: New York State D.E.C.

Job Number: 480-6865-1

Login Number: 6865 List Number: 1

Creator: Kinecki, Kenneth

List Source: TestAmerica Buffalo

Radioactivity either was not measured or, if measured, is at or below background The cooler's custody seal, if present, is intact. The cooler's custody seal, if present, is intact. The cooler's custody seal, if present, is intact. The cooler's custody seal, if present is intact. True Cooler Temperature is acceptable. Cooler Temperature is acceptable. Cooler Temperature is recorded. Cooler Temperature is recorded. Cool is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True Is the Field Sampler's name present on COC? Samples are received within Holding Time. True Containers are not discrepancies between the sample IDs on the containers and the COC. Sample collection date/times are provided. True Containers are not broken or leaking. True Sample collection date/times are provided. True Sample collection date/times are provided. True Sample preservation Verified True Sample preservation Verified True Sample preservation Verified True In recessary, staff have been informed of any short hold time or quick TAT needs Williphasic samples are not present. Samples do not require splitting or compositing. True Samples do not require splitting or compositing. True Samples received within 48 hours of sampling. Question	Answer	Comment	
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	Samples received within 48 hours of sampling.	True	
Chlorine Residual checked. N/A	Samples requiring field filtration have been filtered in the field.	N/A	
	Chlorine Residual checked.	N/A	

Client: New York State D.E.C.

Job Number: 480-6865-1

Login Number: 6867

List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-8034-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Mthly Post-Carbon Mthly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by: 08/17/2011 08:45:14 AM

Brian Fischer
Project Manager II

brian.fischer@testamericainc.com

Review your project results through Total Access

Have a Question?

Ask
The
Expert

Visit us at:
www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Page 1 of 16 08/17/2011

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Brian Fischer Project Manager II 08/17/2011 08:45:14 AM

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TestAmerica Job ID: 480-8034-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-8034-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Job ID: 480-8034-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-8034-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 26296 the following sample was diluted due to the abundance of target analytes: Pre-Carbon (480-8036-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-8034-1)

No other analytical or quality issues were noted.

TestAmerica Job ID: 480-8034-1

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4.

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-8034-1

TestAmerica Job ID: 480-8034-1

Matrix: Wastewater

Client Sample ID: Post-Carbon

Date Collected: 08/03/11 11:00 Date Received: 08/03/11 11:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/07/11 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/07/11 15:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/07/11 15:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/07/11 15:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/07/11 15:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/07/11 15:44	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			08/07/11 15:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/07/11 15:44	1
2-Hexanone	ND		5.0	1.2	ug/L			08/07/11 15:44	1
2-Butanone (MEK)	5.0	J	10	1.3	ug/L			08/07/11 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/07/11 15:44	1
Acetone	ND		10	3.0	ug/L			08/07/11 15:44	1
Benzene	ND		1.0	0.41	ug/L			08/07/11 15:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/07/11 15:44	1
Bromoform	ND		1.0	0.26	ug/L			08/07/11 15:44	1
Bromomethane	ND		1.0	0.69	ug/L			08/07/11 15:44	1
Carbon disulfide	3.2		1.0	0.19	ug/L			08/07/11 15:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/07/11 15:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/07/11 15:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/07/11 15:44	1
Chloroethane	ND		1.0	0.32	ug/L			08/07/11 15:44	1
Chloroform	0.53	J	1.0	0.34	ug/L			08/07/11 15:44	1
Chloromethane	ND		1.0	0.35	ug/L			08/07/11 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/07/11 15:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/07/11 15:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/07/11 15:44	1
Styrene	ND		1.0	0.73	ug/L			08/07/11 15:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/07/11 15:44	1
Toluene	ND		1.0	0.51	ug/L			08/07/11 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/07/11 15:44	1
Trichloroethene	ND		1.0	0.46	ug/L			08/07/11 15:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/07/11 15:44	1
Vinyl acetate	ND		5.0	0.85	ug/L			08/07/11 15:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/07/11 15:44	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		08/07/11 15:44	1
Toluene-d8 (Surr)	116		71 - 126		08/07/11 15:44	1
4-Bromofluorobenzene (Surr)	106		73 - 120		08/07/11 15:44	1

Method: 8021B - Volatile Organic Compounds (GC)

i welliou. 602 fb - Volalile Orgal	ne compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20	0.035	ug/L			08/15/11 15:14	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			08/15/11 15:14	1
Benzene	0.19	J	0.20	0.023	ug/L			08/15/11 15:14	1
Ethylbenzene	ND		0.20	0.029	ug/L			08/15/11 15:14	1
Isopropylbenzene	ND		0.20	0.027	ug/L			08/15/11 15:14	1
Methyl tert-butyl ether	ND		0.40	0.044	ug/L			08/15/11 15:14	1
m,p-Xylene	ND		0.40	0.054	ug/L			08/15/11 15:14	1
n-Butylbenzene	ND		0.20	0.031	ug/L			08/15/11 15:14	1

TestAmerica Buffalo 08/17/2011

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-8034-1

Date Collected: 08/03/11 11:00 Date Received: 08/03/11 11:15

рН

Client Sample ID: Post-Carbon

08/04/11 21:19

TestAmerica Job ID: 480-8034-1

Matrix: Wastewater

Method: 8021B - Volatile Organ	ic Compounds ((GC) (Continι	ıed)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		0.20	0.13	ug/L			08/15/11 15:14	1
o-Xylene	ND		0.20	0.027	ug/L			08/15/11 15:14	1
p-Cymene	ND		0.20	0.030	ug/L			08/15/11 15:14	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			08/15/11 15:14	1
Toluene	ND		0.20	0.036	ug/L			08/15/11 15:14	1
Xylenes, Total	ND		0.60	0.054	ug/L			08/15/11 15:14	1
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 200.7 Rev 4.4 - Metals Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron -	280		50.0	19.3	ug/L		08/04/11 08:30	08/04/11 19:28	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.36		0.010	0.0050	mg/L		08/09/11 10:42	08/11/11 14:51	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

0.100

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7.49 HF

TestAmerica Job ID: 480-8034-1 Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Pre-Carbon Lab Sample ID: 480-8036-1

Date Collected: 08/03/11 11:10 **Matrix: Wastewater**

Date Received: 08/03/11 11:15

Method: 200.7 Rev 4.4 - Metals	s (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	126000	500	100	ug/L		08/04/11 08:30	08/04/11 19:30	1
Iron	453	50.0	19.3	ug/L		08/04/11 08:30	08/04/11 19:30	1
Magnesium	89900	200	43.4	ug/L		08/04/11 08:30	08/04/11 19:30	1
Potassium	4170	500	200	ug/L		08/04/11 08:30	08/04/11 19:30	1
Sodium	67800	1000	324	ug/L		08/04/11 08:30	08/04/11 19:30	1
- General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127	1.0	0.56	mg/L			08/04/11 18:31	2
Sulfate	167	4.0	0.70	mg/L			08/04/11 18:31	2
Alkalinity, Total	564	100	40.0	mg/L			08/10/11 10:21	10

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-8034-1

TestAmerica Job ID: 480-8034-1

Client Sample ID: Post-Carbon

Date Collected: 08/03/11 11:00 **Matrix: Wastewater** Date Received: 08/03/11 11:15

Batch Dilution Batch Prepared Batch Method Prep Type Type Run Factor Number Or Analyzed Analyst Lab Total/NA Analysis 8260B 26580 08/07/11 15:44 TRB TAL BUF 27518 Total/NA Analysis 8021B 1 08/15/11 15:14 DB TAL BUF Total/NA Prep 200.7 26164 08/04/11 08:30 JM TAL BUF Total/NA Analysis 200.7 Rev 4.4 1 26383 08/04/11 19:28 LH TAL BUF SM 4500 H+ B Total/NA Analysis 1 26353 08/04/11 21:19 JS TAL BUF Total/NA Prep 26807 PΝ TAL BUF Distill/CN 08/09/11 10:42 Total/NA Analysis 335.4 27208 08/11/11 14:51 JR TAL BUF

1

Client Sample ID: Pre-Carbon Lab Sample ID: 480-8036-1

Date Collected: 08/03/11 11:10 **Matrix: Wastewater**

Date Received: 08/03/11 11:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			26164	08/04/11 08:30	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	26383	08/04/11 19:30	LH	TAL BUF
Total/NA	Analysis	300.0		2	26296	08/04/11 18:31	RF	TAL BUF
Total/NA	Analysis	310.2		10	27090	08/10/11 10:21	JR	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.

TestAmerica Buffalo

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-8034-1

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Wisconsin

State Program

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Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF

Protocol References:

SM 4500 H+ B

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-8034-1

TAL BUF

Sample Summary

Matrix

Wastewater

Wastewater

Client: New York State D.E.C.

Lab Sample ID

480-8034-1

480-8036-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID

Post-Carbon

Pre-Carbon

Collected Received

08/03/11 11:00

08/03/11 11:10

TestAmerica Job ID: 480-8034-1

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08/03/11 11:15

08/03/11 11:15

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TestAmerica Buffalo

10 Hazelwood Dr 🍽

Amherst, NY 14228-2298

Chain of Custody Record



Phone (718) 891-2600 Fax (776) 691-7991																			
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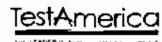






TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record



Phone (716) 891-2500 Fax (715) 691-7991												_								
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Client: New York State D.E.C.

Job Number: 480-8034-1

Login Number: 8034 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo

Job Number: 480-8034-1

Login Number: 8036 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-9367-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Qtrly Post-Carbon Qtrly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by: 09/20/2011 01:34:14 PM

Brian Fischer
Project Manager II

brian.fischer@testamericainc.com

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Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Brian Fischer

Project Manager II 09/20/2011 01:34:14 PM

09/20/2011

TestAmerica Job ID: 480-9367-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifie	er	Qualifier Description
В		Compound was found in the blank and sample.
J		Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo 09/20/2011

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

Job ID: 480-9367-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-9367-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: (480-9367-1 MS), (480-9367-1 MSD), Pre-Carbon (480-9367-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 31289 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: In batch 30970 the following samples were diluted due to the abundance of target analytes: (480-9367-1 MS), (480-9367-1 MSD), Pre-Carbon (480-9367-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8021B: The following samples were diluted due to abundance of target analytes: (480-9367-1 MS), (480-9367-1 MSD), Pre-Carbon (480-9367-1). Therefore, elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method(s) 200.7 Rev 4.4: The Method Blank in batch 480-30298 contained total zinc above the reporting limit (RL). Sample Post-Carbon (480-9368-1), associated with this Method Blank was below the reporting limit for the target analyte, therefore, re-extraction and/or re-analysis of the sample was not performed.

Method(s) 200.7 Rev 4.4: The Method Blank for batch 480-30298 contained total manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample Post-Carbon (480-9368-1) was not performed.

Method(s) 200.7 Rev 4.4: The Method Blank for batch 480-30298 contained total calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample Pre-Carbon (480-9367-1) was not performed.

No other analytical or quality issues were noted.

General Chemistry

Method(s) SM 5210B: The dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The

TestAmerica Buffalo 09/20/2011

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

Job ID: 480-9367-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-9368-1)

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Client Sample ID: Pre-Carbon

Date Collected: 09/06/11 13:40 Date Received: 09/06/11 14:05 Lab Sample ID: 480-9367-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		20	16	ug/L			09/15/11 04:58	2
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			09/15/11 04:58	2
1,1,2-Trichloroethane	ND		20	4.6	ug/L			09/15/11 04:58	2
1,1-Dichloroethane	ND		20	7.6	ug/L			09/15/11 04:58	2
1,1-Dichloroethene	ND		20	5.8	ug/L			09/15/11 04:58	2
1,2-Dichloroethane	ND		20	4.2	ug/L			09/15/11 04:58	2
1,2-Dichloroethene, Total	ND		40	14	ug/L			09/15/11 04:58	2
1,2-Dichloropropane	ND		20	14	ug/L			09/15/11 04:58	2
2-Hexanone	ND		100	25	ug/L			09/15/11 04:58	2
2-Butanone (MEK)	ND		200	26	ug/L			09/15/11 04:58	2
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			09/15/11 04:58	2
Acetone	ND		200	60	ug/L			09/15/11 04:58	2
Benzene	1300		20	8.2	ug/L			09/15/11 04:58	2
Bromodichloromethane	ND		20	7.8	ug/L			09/15/11 04:58	2
Bromoform	ND		20	5.2	ug/L			09/15/11 04:58	2
Bromomethane	ND		20	14	ug/L			09/15/11 04:58	2
Carbon disulfide	ND		20	3.8	ug/L			09/15/11 04:58	2
Carbon tetrachloride	ND		20	5.4	ug/L			09/15/11 04:58	2
Chlorobenzene	ND		20	15	ug/L			09/15/11 04:58	2
Dibromochloromethane	ND		20	6.4	ug/L			09/15/11 04:58	2
Chloroethane	ND		20	6.4	ug/L			09/15/11 04:58	2
Chloroform	38		20	6.8	ug/L			09/15/11 04:58	2
Chloromethane	ND		20	7.0	ug/L			09/15/11 04:58	2
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			09/15/11 04:58	2
Ethylbenzene	84		20	15	ug/L			09/15/11 04:58	2
Methylene Chloride	ND		20	8.8	ug/L			09/15/11 04:58	2
Styrene	20		20	15	ug/L			09/15/11 04:58	2
Tetrachloroethene	ND		20	7.2	ug/L			09/15/11 04:58	2
Toluene	220		20	10	ug/L			09/15/11 04:58	2
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			09/15/11 04:58	2
Trichloroethene	ND		20	9.2	ug/L			09/15/11 04:58	2
Vinyl chloride	ND		20	18	ug/L			09/15/11 04:58	2
Vinyl acetate	ND		100	17	ug/L			09/15/11 04:58	2
Xylenes, Total	120		40	13	ug/L			09/15/11 04:58	2

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		09/15/11 04:58	20
Toluene-d8 (Surr)	105		71 - 126		09/15/11 04:58	20
4-Bromofluorobenzene (Surr)	104		73 - 120		09/15/11 04:58	20

wethod: 8021B - Volatile Organic Compounds (GC	latile Organic Compounds (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	12		1.0	0.17	ug/L			09/12/11 14:36	5
1,3,5-Trimethylbenzene	3.8		1.0	0.75	ug/L			09/12/11 14:36	5
Ethylbenzene	80		1.0	0.14	ug/L			09/12/11 14:36	5
Isopropylbenzene	ND		1.0	0.14	ug/L			09/12/11 14:36	5
Methyl tert-butyl ether	0.58	J	2.0	0.22	ug/L			09/12/11 14:36	5
m,p-Xylene	67		2.0	0.27	ug/L			09/12/11 14:36	5
n-Butylbenzene	ND		1.0	0.15	ug/L			09/12/11 14:36	5
n-Propylbenzene	ND		1.0	0.65	ug/L			09/12/11 14:36	5

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-9367-1

09/13/11 11:36

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TestAmerica Job ID: 480-9367-1

Client Sample ID: Pre-Carbon

Date Received: 09/06/11 14:05

Alkalinity, Total

Date Collected: 09/06/11 13:40 **Matrix: Wastewater**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	45		1.0	0.14	ug/L			09/12/11 14:36	5
p-Cymene	ND		1.0	0.15	ug/L			09/12/11 14:36	5
sec-Butylbenzene	ND		1.0	0.10	ug/L			09/12/11 14:36	5
Toluene	220		1.0	0.18	ug/L			09/12/11 14:36	5
Xylenes, Total	150		3.0	0.27	ug/L			09/12/11 14:36	5
Method: 8021B - Volatile Organio	: Compounds	(GC) - DL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		10	1.2	ug/L			09/15/11 11:45	50
: Method: 200.7 Rev 4.4 - Metals (I	CD)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	118000	B -	500	100	ug/L		09/08/11 08:05	09/09/11 14:21	1
Iron	344		50.0	19.3	ug/L		09/08/11 08:05	09/09/11 14:21	1
Magnesium	72100		200	43.4	ug/L		09/08/11 08:05	09/09/11 14:21	1
Potassium	4620		500	200	ug/L		09/08/11 08:05	09/09/11 14:21	1
	71000		1000	324	ug/L		09/08/11 08:05	09/09/11 14:21	1
Sodium	7 1000								
	71000								
General Chemistry		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium General Chemistry Analyte Chloride		Qualifier	RL		Unit mg/L	<u>D</u>	Prepared	Analyzed 09/13/11 10:02	Dil Fac

100

40.0 mg/L

415

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Post-Carbon

Date Collected: 09/06/11 13:30 Date Received: 09/06/11 14:05

Client: New York State D.E.C.

Lab Sample ID: 480-9368-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND	1.0	0.82	ug/L			09/15/11 12:28	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			09/15/11 12:28	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			09/15/11 12:28	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			09/15/11 12:28	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			09/15/11 12:28	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			09/15/11 12:28	1
1,2-Dichloroethene, Total	ND	2.0	0.70	ug/L			09/15/11 12:28	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			09/15/11 12:28	1
2-Hexanone	ND	5.0	1.2	ug/L			09/15/11 12:28	1
2-Butanone (MEK)	ND	10	1.3	ug/L			09/15/11 12:28	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			09/15/11 12:28	1
Acetone	ND	10	3.0	ug/L			09/15/11 12:28	1
Benzene	ND	1.0	0.41	ug/L			09/15/11 12:28	1
Bromodichloromethane	ND	1.0	0.39	ug/L			09/15/11 12:28	1
Bromoform	ND	1.0	0.26	ug/L			09/15/11 12:28	1
Bromomethane	ND	1.0	0.69	ug/L			09/15/11 12:28	1
Carbon disulfide	ND	1.0	0.19	ug/L			09/15/11 12:28	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			09/15/11 12:28	1
Chlorobenzene	ND	1.0	0.75	ug/L			09/15/11 12:28	1
Dibromochloromethane	ND	1.0	0.32	ug/L			09/15/11 12:28	1
Chloroethane	ND	1.0	0.32	ug/L			09/15/11 12:28	1
Chloroform	0.54 J	1.0	0.34	ug/L			09/15/11 12:28	1
Chloromethane	ND	1.0	0.35	ug/L			09/15/11 12:28	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			09/15/11 12:28	1
Ethylbenzene	ND	1.0	0.74	ug/L			09/15/11 12:28	1
Methylene Chloride	ND	1.0	0.44	ug/L			09/15/11 12:28	1
Styrene	ND	1.0	0.73	ug/L			09/15/11 12:28	1
Tetrachloroethene	ND	1.0	0.36	ug/L			09/15/11 12:28	1
Toluene	ND	1.0	0.51	ug/L			09/15/11 12:28	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			09/15/11 12:28	1
Trichloroethene	ND	1.0	0.46	ug/L			09/15/11 12:28	1
Vinyl chloride	ND	1.0	0.90	ug/L			09/15/11 12:28	1
Vinyl acetate	ND	5.0	0.85	ug/L			09/15/11 12:28	1
Xylenes, Total	ND	2.0	0.66	ug/L			09/15/11 12:28	

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/15/11 12:28	1
Toluene-d8 (Surr)	106		71 - 126		09/15/11 12:28	1
4-Bromofluorobenzene (Surr)	05		73 120		00/15/11 12:28	1

1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2	-Methylnaphthalene	ND		4.8	0.57	ug/L		09/09/11 05:54	09/14/11 18:47	1
1	Acenaphthene	ND		4.8	0.39	ug/L		09/09/11 05:54	09/14/11 18:47	1
A	Acenaphthylene	ND		4.8	0.36	ug/L		09/09/11 05:54	09/14/11 18:47	1
A	Anthracene	ND		4.8	0.27	ug/L		09/09/11 05:54	09/14/11 18:47	1
E	Benzo[a]anthracene	ND		4.8	0.34	ug/L		09/09/11 05:54	09/14/11 18:47	1
E	Benzo[a]pyrene	ND		4.8	0.45	ug/L		09/09/11 05:54	09/14/11 18:47	1
E	Benzo[b]fluoranthene	ND		4.8	0.32	ug/L		09/09/11 05:54	09/14/11 18:47	1
E	Benzo[g,h,i]perylene	ND		4.8	0.33	ug/L		09/09/11 05:54	09/14/11 18:47	1

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Post-Carbon

Date Collected: 09/06/11 13:30 Date Received: 09/06/11 14:05 Lab Sample ID: 480-9368-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND ND	4.8	0.70	ug/L		09/09/11 05:54	09/14/11 18:47	1
Biphenyl	ND	4.8	0.62	ug/L		09/09/11 05:54	09/14/11 18:47	1
Bis(2-ethylhexyl) phthalate	ND	4.8	1.7	ug/L		09/09/11 05:54	09/14/11 18:47	1
Carbazole	ND	4.8	0.29	ug/L		09/09/11 05:54	09/14/11 18:47	1
Chrysene	ND	4.8	0.31	ug/L		09/09/11 05:54	09/14/11 18:47	1
Dibenz(a,h)anthracene	ND	4.8	0.40	ug/L		09/09/11 05:54	09/14/11 18:47	1
Dibenzofuran	ND	9.5	0.49	ug/L		09/09/11 05:54	09/14/11 18:47	1
Fluoranthene	ND	4.8	0.38	ug/L		09/09/11 05:54	09/14/11 18:47	1
Fluorene	ND	4.8	0.34	ug/L		09/09/11 05:54	09/14/11 18:47	1
Indeno[1,2,3-cd]pyrene	ND	4.8	0.45	ug/L		09/09/11 05:54	09/14/11 18:47	1
Naphthalene	ND	4.8	0.72	ug/L		09/09/11 05:54	09/14/11 18:47	1
Pentachlorophenol	ND	9.5	2.1	ug/L		09/09/11 05:54	09/14/11 18:47	1
Phenanthrene	ND	4.8	0.42	ug/L		09/09/11 05:54	09/14/11 18:47	1
Phenol	ND	4.8	0.37	ug/L		09/09/11 05:54	09/14/11 18:47	1
Pyrene	ND	4.8	0.32	ug/L		09/09/11 05:54	09/14/11 18:47	1
Surrogate	% Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	% Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	118	52 - 132	09/09/11 05:54	09/14/11 18:47	1
2-Fluorobiphenyl	107	48 - 120	09/09/11 05:54	09/14/11 18:47	1
2-Fluorophenol	50	20 - 120	09/09/11 05:54	09/14/11 18:47	1
Nitrobenzene-d5	94	46 - 120	09/09/11 05:54	09/14/11 18:47	1
p-Terphenyl-d14	96	24 - 136	09/09/11 05:54	09/14/11 18:47	1
Phenol-d5	36	16 - 120	09/09/11 05:54	09/14/11 18:47	1

Method: 8021B	- Volatile Organic	Compounds (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20	0.035	ug/L			09/12/11 14:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			09/12/11 14:00	1
Benzene	0.042	J	0.20	0.023	ug/L			09/12/11 14:00	1
Ethylbenzene	ND		0.20	0.029	ug/L			09/12/11 14:00	1
Isopropylbenzene	ND		0.20	0.027	ug/L			09/12/11 14:00	1
Methyl tert-butyl ether	0.13	J	0.40	0.044	ug/L			09/12/11 14:00	1
m,p-Xylene	ND		0.40	0.054	ug/L			09/12/11 14:00	1
n-Butylbenzene	ND		0.20	0.031	ug/L			09/12/11 14:00	1
n-Propylbenzene	ND		0.20	0.13	ug/L			09/12/11 14:00	1
o-Xylene	ND		0.20	0.027	ug/L			09/12/11 14:00	1
p-Cymene	ND		0.20	0.030	ug/L			09/12/11 14:00	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			09/12/11 14:00	1
Toluene	ND		0.20	0.036	ug/L			09/12/11 14:00	1
Xylenes, Total	ND		0.60	0.054	ug/L			09/12/11 14:00	1

Method: 608 - Organochlorine Pesticides in	Water
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0063	ug/L		09/12/11 13:50	09/13/11 20:12	1
alpha-BHC	ND		0.048	0.0063	ug/L		09/12/11 13:50	09/13/11 20:12	1
beta-BHC	ND		0.048	0.024	ug/L		09/12/11 13:50	09/13/11 20:12	1
delta-BHC	ND		0.048	0.0095	ug/L		09/12/11 13:50	09/13/11 20:12	1
gamma-BHC (Lindane)	ND		0.048	0.0057	ug/L		09/12/11 13:50	09/13/11 20:12	1
Chlordane (technical)	ND		0.48	0.028	ug/L		09/12/11 13:50	09/13/11 20:12	1
4,4'-DDD	ND		0.048	0.0088	ug/L		09/12/11 13:50	09/13/11 20:12	1
4,4'-DDE	ND		0.048	0.011	ug/L		09/12/11 13:50	09/13/11 20:12	1

Lab Sample ID: 480-9368-1

TestAmerica Job ID: 480-9367-1

Matrix: Wastewater

Client Sample ID: Post-Carbon

Date Collected: 09/06/11 13:30 Date Received: 09/06/11 14:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		0.048	0.010	ug/L		09/12/11 13:50	09/13/11 20:12	1
Dieldrin	ND		0.048	0.0093	ug/L		09/12/11 13:50	09/13/11 20:12	1
Endosulfan I	ND		0.048	0.010	ug/L		09/12/11 13:50	09/13/11 20:12	1
Endosulfan II	ND		0.048	0.011	ug/L		09/12/11 13:50	09/13/11 20:12	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		09/12/11 13:50	09/13/11 20:12	1
Endrin	ND		0.048	0.013	ug/L		09/12/11 13:50	09/13/11 20:12	1
Endrin aldehyde	ND		0.048	0.016	ug/L		09/12/11 13:50	09/13/11 20:12	1
Heptachlor	ND		0.048	0.0081	ug/L		09/12/11 13:50	09/13/11 20:12	1
Heptachlor epoxide	ND		0.048	0.0050	ug/L		09/12/11 13:50	09/13/11 20:12	1
Toxaphene	ND		0.48	0.11	ug/L		09/12/11 13:50	09/13/11 20:12	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		26 - 145				09/12/11 13:50	09/13/11 20:12	1
Tetrachloro-m-xylene	81		25 - 152				09/12/11 13:50	09/13/11 20:12	1

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0	5.6	ug/L		09/08/11 08:05	09/09/11 14:27	1
Iron	137		50.0	19.3	ug/L		09/08/11 08:05	09/09/11 14:27	1
Manganese	194	В	3.0	0.30	ug/L		09/08/11 08:05	09/09/11 14:27	1
Zinc	2.9	JB	10.0	1.7	ug/L		09/08/11 08:05	09/09/11 14:27	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.8	1.3	mg/L		09/07/11 15:00	09/07/11 23:50	1
Cyanide, Total	0.27		0.010	0.0050	mg/L		09/13/11 12:28	09/14/11 09:34	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		09/08/11 19:26	09/09/11 09:04	1
Total Dissolved Solids	768		10.0	4.0	mg/L			09/07/11 01:31	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			09/07/11 20:02	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/08/11 13:38	1
рН	7.40	HE	0.100	0.100	SU			09/06/11 22:13	1

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

Lab Sample ID: 480-9367-1

Matrix: Wastewater

Client Sample ID: Pre-Carbon

Date Collected: 09/06/11 13:40 Date Received: 09/06/11 14:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	31289	09/15/11 04:58	DC	TAL BUF
Total/NA	Analysis	8021B		5	30774	09/12/11 14:36	DB	TAL BUF
Total/NA	Analysis	8021B	DL	50	31328	09/15/11 11:45	DB	TAL BUF
Total/NA	Prep	200.7			30298	09/08/11 08:05	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	30785	09/09/11 14:21	AH	TAL BUF
Total/NA	Analysis	300.0		2	30970	09/13/11 10:02	RF	TAL BUF
Total/NA	Analysis	310.2		10	31086	09/13/11 11:36	PN	TAL BUF

Client Sample ID: Post-Carbon Lab Sample ID: 480-9368-1

Date Collected: 09/06/11 13:30 Matrix: Wastewater

Date Received: 09/06/11 14:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			31357	09/15/11 12:28	DC	TAL BUF
Total/NA	Prep	3510C			30553	09/09/11 05:54	KV	TAL BUF
Total/NA	Analysis	8270C		1	31153	09/14/11 18:47	MP	TAL BUF
Total/NA	Analysis	8021B		1	30774	09/12/11 14:00	DB	TAL BUF
Total/NA	Prep	3510C			30865	09/12/11 13:50	DE	TAL BUF
Total/NA	Analysis	608		1	30996	09/13/11 20:12	LW	TAL BUF
Total/NA	Prep	200.7			30298	09/08/11 08:05	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	30785	09/09/11 14:27	AH	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	30224	09/06/11 22:13	ES	TAL BUF
Total/NA	Analysis	SM 2540C		1	30244	09/07/11 01:31	KS	TAL BUF
Total/NA	Prep	1664A			30338	09/07/11 15:00	ES	TAL BUF
Total/NA	Analysis	1664A		1	30340	09/07/11 23:50	ES	TAL BUF
Total/NA	Analysis	SM 5210B		1	30351	09/07/11 20:02	KS	TAL BUF
Total/NA	Analysis	SM 2540D		1	30475	09/08/11 13:38	AP	TAL BUF
Total/NA	Prep	Distill/Phenol			30531	09/08/11 19:26	KS	TAL BUF
Γotal/NA	Analysis	420.4		1	30598	09/09/11 09:04	PN	TAL BUF
Γotal/NA	Prep	Distill/CN			31067	09/13/11 12:28	AP	TAL BUF
Total/NA	Analysis	335.4		1	31229	09/14/11 09:34	LRM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

_aboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
estAmerica Buffalo	Maryland	State Program	3	294
estAmerica Buffalo	Massachusetts	State Program	1	M-NY044
estAmerica Buffalo	Michigan	State Program	5	9937
estAmerica Buffalo	Minnesota	NELAC	5	036-999-337
estAmerica Buffalo	New Hampshire	NELAC	1	68-00281
estAmerica Buffalo	New Hampshire	NELAC	1	2337
estAmerica Buffalo	New Jersey	NELAC	2	NY455
estAmerica Buffalo	New York	NELAC	2	10026
estAmerica Buffalo	North Dakota	State Program	8	R-176
estAmerica Buffalo	Oklahoma	State Program	6	9421
estAmerica Buffalo	Oregon	NELAC	10	NY200003
estAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
estAmerica Buffalo	Tennessee	State Program	4	TN02970
estAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
estAmerica Buffalo	USDA	USDA		P330-08-00242
estAmerica Buffalo	Virginia	State Program	3	278
estAmerica Buffalo	Washington	State Program	10	C1677
estAmerica Buffalo	West Virginia	West Virginia DEP	3	252
estAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

stAmerica Buffalo 09/20/2011

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Method **Method Description** Protocol Laboratory SW846 TAL BUF 8260B Volatile Organic Compounds (GC/MS) 8270C Semivolatile Organic Compounds (GC/MS) SW846 TAL BUF 8021B Volatile Organic Compounds (GC) SW846 TAL BUF 608 Organochlorine Pesticides in Water 40CFR136A TAL BUF 200.7 Rev 4.4 Metals (ICP) **EPA** TAL BUF 1664A HEM and SGT-HEM 1664A TAL BUF 300.0 Anions, Ion Chromatography MCAWW TAL BUF **MCAWW** TAL BUF 310.2 Alkalinity 335.4 Cyanide, Total **MCAWW** TAL BUF 420.4 Phenolics, Total Recoverable **MCAWW** TAL BUF SM 2540C Solids, Total Dissolved (TDS) SM TAL BUF SM 2540D Solids, Total Suspended (TSS) SM TAL BUF

Protocol References:

SM 4500 H+ B

SM 5210B

1664A = EPA-821-98-002

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BOD, 5-Day

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Job ID: 480-9367-1

TAL BUF

TAL BUF

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SM

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Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-9367-1	Pre-Carbon	Wastewater	09/06/11 13:40	09/06/11 14:05
480-9368-1	Post-Carbon	Wastewater	09/06/11 13:30	09/06/11 14:05

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record

TestAmerica

Phone (716) 691-2000 FBX (716) 691-7991				1								7			t - t-		—	Tet to the second	
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Cseri Contact Thomas Palmer	484-9	45-Z	301		n.Hsche	ar Blo	stam	18 rica i	nc.ex	от								Page: Page 1 of 1	
Company: Groundwater & Environmental Services Inc									Ana	alysk	s Re	que	sted					Job #	
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TestAmerica Buffalo

10 Mazelecod Drive

Amherst, NY 14228-2298 Phone (716) 891-7991

Chain of Custody Record

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Emai: tpelmer@gesonline.com Project Name:	WO II:				اِقَا	3.		Į į	Ę	8	Ź	3	8	8	₽			Ĭ.	J - DH Water	U - Accione V - MCAA
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Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-9367-1

Login Number: 9367 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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Login Sample Receipt Checklist

Job Number: 480-9367-1

Client: New York State D.E.C.

Login Number: 9368 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
ontainers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
here is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
/OA sample vials do not have headspace or bubble is <6mm (1/4") in liameter.	True	
f necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
amples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-11022-1

Client Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Sampling Event: Mthly Post-Carbon Qtrly Pre-Carbon

For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May

Authorized for release by: 10/24/2011 10:48:40 AM

Brian Fischer
Project Manager II

brian.fischer@testamericainc.com

Review your project results through Total Access

Have a Question?

Ask
The Expert

Visit us at:

www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Page 1 of 16

10/24/2011

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Brian Fischer

Project Manager II 10/24/2011 10:48:40 AM TestAmerica Job ID: 480-11022-1

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Reporting Limit

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-11022-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

RL

RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\(\tilde{\pi} \)	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Buffalo 10/24/2011

Case Narrative

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

Job ID: 480-11022-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-11022-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Ion Chromatography

Method(s) 300.0: The following samples were diluted due to the abundance of target analytes: Pre-Carbon (480-11022-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

Metals

Method(s) 200.7 Rev 4.4: The recoveries of Post Spike, (480-11022-1 PDS), in batch 480-34958 exhibited results outside the quality control limits for total sodium and magnesium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary

No other analytical or quality issues were noted.

General Chemistry

Method(s) 9040B, SM 4500 H+ B: The pH for the following samples was outside the instrument calibration range of 4 to 10: (480-10795-4 DU), MW115 (480-10795-4).

Method(s) 9040B, SM 4500 H+ B: The sample duplicate precision for the the following sample associated with batch 35172 was outside control limits: (480-10795-4 DU). The associated LCS and CCV met acceptance criteria.

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-11023-1)

No other analytical or quality issues were noted.

estAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Lab Sample ID: 480-11022-1

10/21/11 14:35

10/18/11 12:20

TestAmerica Job ID: 480-11022-1

Matrix: Wastewater

Client Sample ID: Pre-Carbon

Date Collected: 10/11/11 13:30 Date Received: 10/11/11 14:10

Sulfate

Alkalinity, Total

Method: 200.7 Rev 4.4 - Metal	s (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	149000	500	100	ug/L		10/12/11 08:40	10/12/11 20:56	1
Iron	1880	50.0	19.3	ug/L		10/12/11 08:40	10/12/11 20:56	1
Magnesium	81000	200	43.4	ug/L		10/12/11 08:40	10/12/11 20:56	1
Potassium	5740	500	200	ug/L		10/12/11 08:40	10/12/11 20:56	1
Sodium	95000	1000	324	ug/L		10/12/11 08:40	10/12/11 20:56	1
General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149	1.0	0.56	mg/L			10/21/11 14:35	2

4.0

100

166

449

0.70 mg/L

40.0 mg/L

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Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Post-Carbon

Date Collected: 10/04/11 13:15 Date Received: 10/11/11 14:10 Lab Sample ID: 480-11023-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/16/11 23:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/16/11 23:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/16/11 23:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/16/11 23:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/16/11 23:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/16/11 23:51	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			10/16/11 23:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/16/11 23:51	1
2-Hexanone	ND		5.0	1.2	ug/L			10/16/11 23:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/16/11 23:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/16/11 23:51	1
Acetone	ND		10	3.0	ug/L			10/16/11 23:51	1
Benzene	ND		1.0	0.41	ug/L			10/16/11 23:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/16/11 23:51	1
Bromoform	ND		1.0	0.26	ug/L			10/16/11 23:51	1
Bromomethane	ND		1.0	0.69	ug/L			10/16/11 23:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/16/11 23:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/16/11 23:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/16/11 23:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/16/11 23:51	1
Chloroethane	ND		1.0	0.32	ug/L			10/16/11 23:51	1
Chloroform	3.1		1.0	0.34	ug/L			10/16/11 23:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/16/11 23:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/16/11 23:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/16/11 23:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/16/11 23:51	1
Styrene	ND		1.0	0.73	ug/L			10/16/11 23:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/11 23:51	1
Toluene	ND		1.0	0.51	ug/L			10/16/11 23:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/16/11 23:51	1
Trichloroethene	ND		1.0	0.46	ug/L			10/16/11 23:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/16/11 23:51	1
Vinyl acetate	ND		5.0	0.85	ug/L			10/16/11 23:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/16/11 23:51	1

Surrogate	% Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137	-		10/16/11 23:51	1
Toluene-d8 (Surr)	98		71 - 126			10/16/11 23:51	1
4-Bromofluorobenzene (Surr)	98		73 - 120			10/16/11 23:51	1

Method: 8021B - V	olatile Organic	Compounds	(GC)
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		,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20	0.035	ug/L			10/12/11 12:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.15	ug/L			10/12/11 12:00	1
Benzene	0.20		0.20	0.023	ug/L			10/12/11 12:00	1
Ethylbenzene	ND		0.20	0.029	ug/L			10/12/11 12:00	1
Isopropylbenzene	ND		0.20	0.027	ug/L			10/12/11 12:00	1
Methyl tert-butyl ether	0.082	J	0.40	0.044	ug/L			10/12/11 12:00	1
m,p-Xylene	ND		0.40	0.054	ug/L			10/12/11 12:00	1
n-Butylbenzene	ND		0.20	0.031	ug/L			10/12/11 12:00	1

Client Sample Results

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

Client Sample ID: Post-Carbon

Date Collected: 10/04/11 13:15 Date Received: 10/11/11 14:10 Lab Sample ID: 480-11023-1

TestAmerica Job ID: 480-11022-1

Matrix: Wastewater

	nic Compounds (, (
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		0.20	0.13	ug/L			10/12/11 12:00	1
o-Xylene	ND		0.20	0.027	ug/L			10/12/11 12:00	1
p-Cymene	ND		0.20	0.030	ug/L			10/12/11 12:00	1
sec-Butylbenzene	ND		0.20	0.020	ug/L			10/12/11 12:00	1
Toluene	ND		0.20	0.036	ug/L			10/12/11 12:00	1
Xylenes, Total	ND		0.60	0.054	ug/L			10/12/11 12:00	1
Method: 200.7 Rev 4.4 - Metals	s (ICP)								
Method: 200.7 Rev 4.4 - Metals	• •	Qualifier	RL	MDL	Unit	n	Prepared	Analyzed	Dil Fac
Analyte	• •	Qualifier	RL 50.0		Unit ug/L	<u>D</u>	Prepared 10/12/11 08:40	Analyzed 10/12/11 19:17	Dil Fac
Analyte Iron	Result	Qualifier				<u>D</u>			Dil Fac
Analyte Iron General Chemistry	Result	Qualifier _	50.0	19.3	ug/L	<u>D</u>			1
Method: 200.7 Rev 4.4 - Metals Analyte Iron General Chemistry Analyte	Result 200	Qualifier			ug/L	D			Dil Fac
Analyte Iron General Chemistry	Result 200	· ·	50.0	19.3	ug/L	_	10/12/11 08:40	10/12/11 19:17	1
Analyte Iron General Chemistry Analyte	Result 200 Result 0.38	· ·	50.0	19.3 MDL 0.0050	ug/L Unit	_	10/12/11 08:40 Prepared	10/12/11 19:17 Analyzed	1

Lab Chronicle

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

Lab Sample ID: 480-11022-1

Matrix: Wastewater

Client Sample ID: Pre-Carbon Date Collected: 10/11/11 13:30

Date Received: 10/11/11 14:10

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			34958	10/12/11 08:40	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	35202	10/12/11 20:56	LH	TAL BUF
Total/NA	Analysis	310.2		10	35993	10/18/11 12:20	PN	TAL BUF
Total/NA	Analysis	300.0		2	36471	10/21/11 14:35	RMM	TAL BUF

Client Sample ID: Post-Carbon Lab Sample ID: 480-11023-1

Date Collected: 10/04/11 13:15 Matrix: Wastewater

Date Received: 10/11/11 14:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	35651	10/16/11 23:51	JMB	TAL BUF
Total/NA	Analysis	8021B		1	35039	10/12/11 12:00	DB	TAL BUF
Total/NA	Prep	200.7			34950	10/12/11 08:40	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	35201	10/12/11 19:17	LH	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	35172	10/12/11 23:03	KS	TAL BUF
Total/NA	Prep	Distill/CN			36013	10/18/11 12:32	JR	TAL BUF
Total/NA	Analysis	335.4		1	35999	10/18/11 15:55	JR	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Certification Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

Laboratory	Authority	Program	EPA Region	Certification ID		
TestAmerica Buffalo	Arkansas	State Program	6	88-0686		
TestAmerica Buffalo	California	NELAC	9	1169CA		
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568		
TestAmerica Buffalo	Florida	NELAC	4	E87672		
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A		
TestAmerica Buffalo	Georgia	State Program	4	956		
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003		
TestAmerica Buffalo	Iowa	State Program	7	374		
TestAmerica Buffalo	Kansas	NELAC	7	E-10187		
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30		
TestAmerica Buffalo	Kentucky	State Program	4	90029		
TestAmerica Buffalo	Louisiana	NELAC	6	02031		
TestAmerica Buffalo	Maine	State Program	1	NY0044		
TestAmerica Buffalo	Maryland	State Program	3	294		
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044		
TestAmerica Buffalo	Michigan	State Program	5	9937		
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337		
TestAmerica Buffalo	New Hampshire	NELAC	1	2337		
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281		
TestAmerica Buffalo	New Jersey	NELAC	2	NY455		
TestAmerica Buffalo	New York	NELAC	2	10026		
TestAmerica Buffalo	North Dakota	State Program	8	R-176		
TestAmerica Buffalo	Oklahoma	State Program	6	9421		
TestAmerica Buffalo	Oregon	NELAC	10	NY200003		
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281		
TestAmerica Buffalo	Tennessee	State Program	4	TN02970		
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX		
TestAmerica Buffalo	USDA	USDA		P330-08-00242		
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185		
TestAmerica Buffalo	Virginia	State Program	3	278		
TestAmerica Buffalo	Washington	State Program	10	C1677		
TestAmerica Buffalo	Wisconsin	State Program	5	998310390		

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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estAmerica Buffalo

Method Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8021B	Volatile Organic Compounds (GC)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pН	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: New York State D.E.C.

Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-11022-1	Pre-Carbon	Wastewater	10/11/11 13:30	10/11/11 14:10
480-11023-1	Post-Carbon	Wastewater	10/04/11 13:15	10/11/11 14:10

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TestAmerica Buffalo 10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record

Te	est <u>A</u> n	<u>nerica</u>	
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Sample Identification		Sample Time	(C≡comp. G≃grab)	G-Walmal Br-7mm d-dr)	Perior Perior	200.7-(3102-1						Total Number	
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Possible Hazard Identification Non-Hazard Flammable Skin Imitani					Şamp	e Disp	OSM (A	fee may	50 285	essed it	\$ample:	ere re	alose u	onger than 1 month)
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TestAmerica Buffalo

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Chain of Custody Record

<u>TestAm</u>	nerica
THE 15-055	

Amherst, NY 14228-2299 Phone (716) 691-2600 Fax (716) 691-7991 Samoler T. Palmer Carder Tracketo Norsi: Fischer, Brian 480-8755-1177.1 Client Information E-Mail Phone (484)305-020C bnan.fischer@testamericainc.com Page 1 of 1 Thomas Palmer Analysis Requested Groundwater & Environmental Services Inc. Due Date Requestad: Preservation Codes: Address: 158 Sonwill Drive M - House TAT Requested (days): B - NaOH N - None Cheaktowaga C - Zn Acetake O - A(N)(72 10 (SA DEC D - Nittne Acid P NaCAS State, Acc E - NaHSO4 Q - Na2SC2 NY, 14225 F · MeOH R - Na252503 PT (800) 287-7857 G - Amchior ext. 4346 9021B - (MOD) 97AR9 USI - VOA - B021 S · HZECH Purchase Order not requir T - TSP Dodat shydrale I-ka V - Acetone Perform MS/MSQ (Yes or No. 42608 - (NOU) TOL IIII DIAMA 2 J - DI Waler V - MCAA boalmor@gesonline.com K - EDTA W-ph4-5 Project Name L - EDA Z - Other (spacety) NYSDEC - Gastown WWTP/Gastown 48002525 8. SSOW+. 335.4 - Cynnida, Total Other: ō New York мацих Sample (*--r+ Турв Device Marie Sample Cacone. Blalber G≖<u>grab)</u> Sample Date Time Asta) Special Instructions/Note: Sample Identification Preservation Code: 1315 G Water Post-Carbon 10-11-11 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month). Non-Hazard Flammable Skin Imitant Poison 8 Unknown Radiological Return To Client Oisposal By Lab Months Spec-ai Instructions/OC Requirements: Deliverable Requested | III, III, IV, Other (specify) Time Michael of Shapmani Empty Kill Relinguished by Date: ₁₀₋₁₁₋ 11 Marin here 1410 "ĞES 1410 Pennanshed by Reinquished by Data/Time. Ref. (wed by Concan Çoole: Temperatura(s) *C and Other Remains: Custody Seals Intact Custody Seal No.:







Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-11022-1

Login Number: 11022 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

Creator: Janish, Cari		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-11022-1

Login Number: 11023 List Source: TestAmerica Buffalo

List Number: 1 Creator: Janish, Carl

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Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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