

**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.

## 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

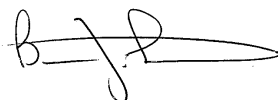
For:

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](mailto:brian.fischer@testamericainc.com)

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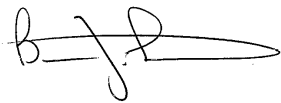
[www.testamericainc.com](http://www.testamericainc.com)

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.

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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

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## Qualifier Definition/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

### 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.

#### General Chemistry

Qualifier	Qualifier Description
B	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.

## Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

**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.

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

**Client Sample ID: Post-Carbon**

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

**Date Received: 01/26/11 15:10**

**Lab Sample ID: 480-1176-1**

**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		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
4-Bromofluorobenzene (Surr)	95		73 - 120		01/28/11 15:54	1

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	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

TestAmerica Buffalo



# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

## Client Sample ID: Post-Carbon

Date Collected: 01/26/11 14:45

Date Received: 01/26/11 15:10

## Lab Sample ID: 480-1176-1

Matrix: Wastewater

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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

### Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	157		50.0	19.3	ug/L		01/27/11 18:08	01/29/11 01:50	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.33		0.010	0.0050	mg/L		01/28/11 14:05	02/01/11 09:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93	HF	0.100	0.100	SU			01/26/11 23:08	1

## Client Sample ID: Pre-Carbon

Date Collected: 01/26/11 14:55

Date Received: 01/26/11 15:10

## Lab Sample ID: 480-1176-2

Matrix: Wastewater

### Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	143000	B7	500	100	ug/L		01/27/11 18:08	01/31/11 17:03	1
Iron	420		50.0	19.3	ug/L		01/27/11 18:08	01/29/11 01:57	1
Magnesium	85600		200	43.4	ug/L		01/27/11 18:08	01/29/11 01:57	1
Potassium	4260		500	200	ug/L		01/27/11 18:08	01/31/11 17:03	1
Sodium	82800	B7	1000	324	ug/L		01/27/11 18:08	01/31/11 17:03	1

### 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	B	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

TestAmerica Job ID: 480-1176-1

## Client Sample ID: Post-Carbon

Date Collected: 01/26/11 14:45

Date Received: 01/26/11 15:10

## Lab Sample ID: 480-1176-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Date Collected: 01/26/11 14:55

Date Received: 01/26/11 15:10

## Lab Sample ID: 480-1176-2

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

Laboratory	Authority	Program	EPA Region	Certification ID	* Expiration Date
TestAmerica Buffalo		USDA		P330-08-00242	11/25/11
TestAmerica Buffalo	Arkansas	State Program	6	88-0686	07/06/11
TestAmerica Buffalo	California	NELAC	9	1169CA	09/30/11
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568	09/30/12
TestAmerica Buffalo	Florida	NELAC	4	E87672	06/30/11
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A	03/31/11
TestAmerica Buffalo	Georgia	State Program	4	956	04/01/10
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003	09/30/11
TestAmerica Buffalo	Iowa	State Program	7	374	03/01/11
TestAmerica Buffalo	Kansas	NELAC	7	E-10187	02/28/11
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30	04/12/12
TestAmerica Buffalo	Kentucky	State Program	4	90029	12/31/11
TestAmerica Buffalo	Louisiana	NELAC	6	02031	06/30/11
TestAmerica Buffalo	Maine	State Program	1	NY0044	12/04/12
TestAmerica Buffalo	Maryland	State Program	3	294	03/31/11
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044	06/30/11
TestAmerica Buffalo	Michigan	State Program	5	9937	04/01/11
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337	12/31/11
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281	11/17/11
TestAmerica Buffalo	New Hampshire	NELAC	1	2337	09/11/11
TestAmerica Buffalo	New Jersey	NELAC	2	NY455	06/30/11
TestAmerica Buffalo	New York	NELAC	2	10026	04/01/11
TestAmerica Buffalo	North Dakota	State Program	8	R-176	03/31/11
TestAmerica Buffalo	Oklahoma	State Program	6	9421	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	State Program	4	TN02970	03/31/11
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX	07/31/11
TestAmerica Buffalo	Virginia	State Program	3	278	06/30/11
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252	09/30/11
TestAmerica Buffalo	Wisconsin	State Program	5	998310390	08/31/11

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.

\* 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

TestAmerica Job ID: 480-1176-1

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	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

## Sample Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-1176-1

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

THIS IS A PRELIMINARY ENVIRONMENTAL TRIAL OF THE

[illegible]

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-1176-1

Login Number: 1176

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

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	

## 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

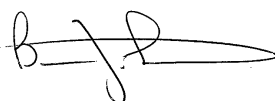
For:

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](mailto:brian.fischer@testamericainc.com)

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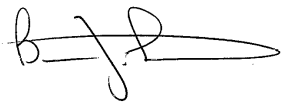
[www.testamericainc.com](http://www.testamericainc.com)

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

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## Qualifier Definition/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

### 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
B	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.

# Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

**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.

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

## Client Sample ID: Pre-Carbon

Date Collected: 02/25/11 13:45

Date Received: 02/25/11 14:25

## Lab Sample ID: 480-2009-1

Matrix: Wastewater

### Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	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	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		1.0	0.56	mg/L			03/03/11 10:34	2
Sulfate	176		4.0	0.70	mg/L			03/03/11 10:34	2
Alkalinity, Total	489	B	100	40.0	mg/L			03/03/11 12:15	10

## Client Sample ID: Post-Carbon

Date Collected: 02/25/11 13:30

Date Received: 02/25/11 14:25

## Lab Sample ID: 480-2011-1

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		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

TestAmerica Buffalo

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

**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**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/11 16:02	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	107		66 - 137					02/28/11 16:02	1
Toluene-d8 (Surr)	106		71 - 126					02/28/11 16:02	1
4-Bromofluorobenzene (Surr)	101		73 - 120					02/28/11 16:02	1

## Method: 8021B - Volatile Organic Compounds (GC)

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
<b>Benzene</b>	<b>0.13</b>	<b>J</b>	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
<b>Toluene</b>	<b>0.090</b>	<b>J</b>	0.20	0.036	ug/L			03/01/11 13:46	1
Xylenes, Total	ND		0.60	0.054	ug/L			03/01/11 13:46	1

## Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>154</b>		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
<b>Cyanide, Total</b>	<b>0.29</b>		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
<b>pH</b>	<b>7.21</b>	<b>HF</b>	0.100	0.100	SU			02/26/11 17:44	1

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

## Client Sample ID: Pre-Carbon

Date Collected: 02/25/11 13:45

Date Received: 02/25/11 14:25

Lab Sample ID: 480-2009-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Date Collected: 02/25/11 13:30

Date Received: 02/25/11 14:25

Lab Sample ID: 480-2011-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

Laboratory	Authority	Program	EPA Region	Certification ID	* Expiration Date
TestAmerica Buffalo		USDA		P330-08-00242	11/25/11
TestAmerica Buffalo	Arkansas	State Program	6	88-0686	07/06/11
TestAmerica Buffalo	California	NELAC	9	1169CA	09/30/11
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568	09/30/12
TestAmerica Buffalo	Florida	NELAC	4	E87672	06/30/11
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A	03/31/11
TestAmerica Buffalo	Georgia	State Program	4	956	04/01/10
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003	09/30/11
TestAmerica Buffalo	Iowa	State Program	7	374	03/01/13
TestAmerica Buffalo	Kansas	NELAC	7	E-10187	01/31/12
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30	04/12/12
TestAmerica Buffalo	Kentucky	State Program	4	90029	12/31/11
TestAmerica Buffalo	Louisiana	NELAC	6	02031	06/30/11
TestAmerica Buffalo	Maine	State Program	1	NY0044	12/04/12
TestAmerica Buffalo	Maryland	State Program	3	294	03/31/11
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044	06/30/11
TestAmerica Buffalo	Michigan	State Program	5	9937	04/01/11
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337	12/31/11
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281	11/17/11
TestAmerica Buffalo	New Hampshire	NELAC	1	2337	09/11/11
TestAmerica Buffalo	New Jersey	NELAC	2	NY455	06/30/11
TestAmerica Buffalo	New York	NELAC	2	10026	04/01/11
TestAmerica Buffalo	North Dakota	State Program	8	R-176	03/31/11
TestAmerica Buffalo	Oklahoma	State Program	6	9421	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	State Program	4	TN02970	03/31/11
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX	07/31/11
TestAmerica Buffalo	Virginia	State Program	3	278	06/30/11
TestAmerica Buffalo	Washington	State Program	10	C1677	02/10/12
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252	09/30/11
TestAmerica Buffalo	Wisconsin	State Program	5	998310390	08/31/11

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.

\* 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

TestAmerica Job ID: 480-2009-1

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	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

## Sample Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC - Gastown WWTP

TestAmerica Job ID: 480-2009-1

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

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# TestAmerica Buffalo

10 Hazelwood Lane

Amherst, NY 14226-2298

Phone (716) 891-2600 Fax (716) 891-7991

## Chain of Custody Record

TestAmerica

THE LEADER IN PERFORMANCE TESTING

<b>Client Information</b> Client Contact: Thomas Palmer Company: Groundwater & Environmental Services Inc. Address: 158 Gowil Drive City: Cheektowaga State, Zip: NY, 14225 Phone: Email: tpalmer@gesinc.com Project Name: NYSDEC - Gastown WWTP/Gastown Event Desc: Mthly Pre-Ca Site: New York		Sample: <b>Brent Miller</b> Phone: <b>1-800-287-7857</b> Lab PM: Fischer, Brian E-Mail: brian.fischer@testamericainc.com		Carrier Tracking No(s): DOC No: 480-8735-1170 Page: Page 1 of 1 Job #	
<b>Analysis Requested</b>		Due Date Requested: TAT Requested (days): PO #: Purchase Order not requir Project #: 48002525 SACS#		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - AmNH4 H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA M - Hexane N - None O - AsHAcO2 P - Na2OxS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Occur: any grade U - Acetone V - MeOH W - pH 4-5 Z - other (specify) Other:	
<b>Sample Identification</b>		Sample Date: <b>2-25-11</b>		Sample Time: <b>1395</b>	
Sample Type (C=Comp, G=grab) <b>G</b>		Matrix (W=water, G=soil, G=water/sol, BT=biological, M=air) <b>Water</b>		Field Filled Sample (Yes or No) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Preservation Code: <b>1</b>		Total Number of containers: <b>1</b>		Special Instructions/Note:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by: <b>Brent Miller</b>		Date: <b>2-25-11 / 1425</b>		Time: <b>1395</b>	
Relinquished by: <b>Brent Miller</b>		Date/Time: <b>2-25-11 / 1425</b>		Company: <b>GES</b>	
Relinquished by: <b>Brent Miller</b>		Date/Time: <b>2-25-11 / 1425</b>		Company: <b>GES</b>	
Relinquished by: <b>Brent Miller</b>		Date/Time: <b>2-25-11 / 1425</b>		Company: <b>GES</b>	
Custody Seal Intact: 3 Yes 4 No		Custody Seal No.:		Cooler Temperature(s) °C and Open Time(s)	

TestAmerica

\* FAX: 1-800-875-1140 E-mail: [info@hollingshead.com](mailto:info@hollingshead.com) Web: [www.hollingshead.com](http://www.hollingshead.com)

[illegible]

## Login Sample Receipt Checklist

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	

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-2009-1

Login Number: 2011

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	

## 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](mailto:brian.fischer@testamericainc.com)

### LINKS

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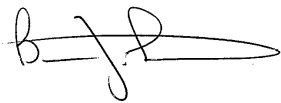
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[www.testamericainc.com](http://www.testamericainc.com)

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.



---

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



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## Qualifier Definition/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

### 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/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

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
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

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.

#### Metals

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

TestAmerica Job ID: 480-2995-1

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### Job ID: 480-2995-1 (Continued)

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#### 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. The 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.

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	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	ug/L			03/30/11 08:02	1
1,1-Dichloroethane	ND		1.0	0.38	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
<b>1,2-Dichloroethene, Total</b>	<b>5.5</b>		2.0	0.70	ug/L			03/30/11 08:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			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	2.1	ug/L			03/30/11 08:02	1
Acetone	ND		10	3.0	ug/L			03/30/11 08:02	1
<b>Bromodichloromethane</b>	<b>0.65</b>	<b>J</b>	1.0	0.39	ug/L			03/30/11 08:02	1
Bromoform	ND		1.0	0.26	ug/L			03/30/11 08:02	1
Bromomethane	ND		1.0	0.69	ug/L			03/30/11 08:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/30/11 08:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/30/11 08:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/30/11 08:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/11 08:02	1
Chloroethane	ND		1.0	0.32	ug/L			03/30/11 08:02	1
<b>Chloroform</b>	<b>5.4</b>		1.0	0.34	ug/L			03/30/11 08:02	1
Chloromethane	ND		1.0	0.35	ug/L			03/30/11 08:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/11 08:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/11 08:02	1
Styrene	ND		1.0	0.73	ug/L			03/30/11 08:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/11 08:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/11 08:02	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/11 08:02	1
<b>Vinyl chloride</b>	<b>1.3</b>		1.0	0.90	ug/L			03/30/11 08:02	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/30/11 08:02	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 137					03/30/11 08:02	1
Toluene-d8 (Surr)	87		71 - 126					03/30/11 08:02	1
4-Bromofluorobenzene (Surr)	86		73 - 120					03/30/11 08:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2900</b>		40	16	ug/L			03/31/11 00:27	40
<b>Ethylbenzene</b>	<b>270</b>		40	30	ug/L			03/31/11 00:27	40
<b>Toluene</b>	<b>800</b>		40	20	ug/L			03/31/11 00:27	40
<b>Xylenes, Total</b>	<b>250</b>		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
4-Bromofluorobenzene (Surr)	89		73 - 120					03/31/11 00:27	40

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>10</b>		2.0	0.35	ug/L			04/04/11 12:04	10

TestAmerica Buffalo

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

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

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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 (ICP)

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	B	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

Date Received: 03/28/11 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/11 20:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/11 20:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/30/11 20:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/11 20:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/11 20:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/11 20:10	1
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L			03/30/11 20:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/30/11 20:10	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/11 20:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/11 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/30/11 20:10	1
Acetone	ND		10	3.0	ug/L			03/30/11 20:10	1
Benzene	ND		1.0	0.41	ug/L			03/30/11 20:10	1

TestAmerica Buffalo

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

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

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

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
<b>Toluene</b>	<b>1.3</b>		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
<b>Xylenes, Total</b>	<b>2.0</b>		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
<b>Benzo[g,h,i]perylene</b>	<b>0.49</b>	<b>J B</b>	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
<b>Dibenz(a,h)anthracene</b>	<b>0.42</b>	<b>J B</b>	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
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.49</b>	<b>J B</b>	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

TestAmerica Buffalo

# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

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

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

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	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	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		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

## Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0063	ug/L		04/01/11 09:18	04/04/11 15:12	1
alpha-BHC	ND		0.048	0.0063	ug/L		04/01/11 09:18	04/04/11 15:12	1
beta-BHC	ND		0.048	0.024	ug/L		04/01/11 09:18	04/04/11 15:12	1
delta-BHC	ND		0.048	0.0096	ug/L		04/01/11 09:18	04/04/11 15:12	1
gamma-BHC (Lindane)	ND		0.048	0.0058	ug/L		04/01/11 09:18	04/04/11 15:12	1
Chlordane (technical)	ND		0.48	0.028	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDD	ND		0.048	0.0088	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDE	ND		0.048	0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
4,4'-DDT	ND		0.048	0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
Dieldrin	ND		0.048	0.0094	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan I	ND		0.048	0.011	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan II	ND		0.048	0.012	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endrin	ND		0.048	0.013	ug/L		04/01/11 09:18	04/04/11 15:12	1
Endrin aldehyde	ND		0.048	0.016	ug/L		04/01/11 09:18	04/04/11 15:12	1
Heptachlor	ND		0.048	0.0082	ug/L		04/01/11 09:18	04/04/11 15:12	1
Heptachlor epoxide	ND		0.048	0.0051	ug/L		04/01/11 09:18	04/04/11 15:12	1
Toxaphene	ND		0.48	0.12	ug/L		04/01/11 09:18	04/04/11 15:12	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		26 - 145				04/01/11 09:18	04/04/11 15:12	1
Tetrachloro-m-xylene	67		25 - 152				04/01/11 09:18	04/04/11 15:12	1

TestAmerica Buffalo



# Analytical Data

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

**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**

## 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		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
Biochemical Oxygen Demand	ND	H	2.0	2.0	mg/L			04/05/11 17:15	1

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-2995-1

## Client Sample ID: Pre-Carbon

Date Collected: 03/28/11 12:20

Date Received: 03/28/11 12:30

## Lab Sample ID: 480-2995-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

## Client Sample ID: Post-Carbon

Date Collected: 03/28/11 12:15

Date Received: 03/28/11 12:30

## Lab Sample ID: 480-2997-1

Matrix: Wastewater

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

# Certification Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-2995-1

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

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

TestAmerica Job ID: 480-2995-1

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
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
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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-2995-1

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

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10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone (716) 691-2800 Fax (716) 691-7931

### Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

## Login Sample Receipt Checklist

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	



## Login Sample Receipt Checklist

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	

## 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](mailto:brian.fischer@testamericainc.com)

### LINKS

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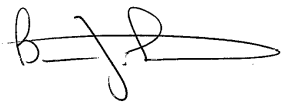
Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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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.



---

Brian Fischer  
Project Manager II  
06/23/2011 11:03:36 AM

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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
B	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.
☼	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

TestAmerica Job ID: 480-5769-1

**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.

## Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

---

### Job ID: 480-5769-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

##### Organic Prep

No analytical or quality issues were noted.

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

**Client Sample ID: Pre-Carbon**

**Lab Sample ID: 480-5769-1**

**Date Collected: 06/07/11 13:30**

**Matrix: Wastewater**

**Date Received: 06/07/11 13:45**

## 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
<b>1,2-Dichloroethene, Total</b>	<b>2.5</b>	<b>J</b>	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
<b>Acetone</b>	<b>7.6</b>	<b>J</b>	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
<b>Chloroform</b>	<b>46</b>		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
<b>Ethylbenzene</b>	<b>120</b>		2.0	1.5	ug/L			06/11/11 16:23	2
<b>Methylene Chloride</b>	<b>0.95</b>	<b>J</b>	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
<b>Xylenes, Total</b>	<b>440</b>		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
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
<b>Benzene</b>	<b>3700</b>		50	21	ug/L			06/16/11 13:58	50
<b>Styrene</b>	<b>450</b>		50	37	ug/L			06/16/11 13:58	50
<b>Toluene</b>	<b>1900</b>		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 Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>46</b>		2.0	0.35	ug/L			06/21/11 11:38	10

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

## Client Sample ID: Pre-Carbon

Date Collected: 06/07/11 13:30

Date Received: 06/07/11 13:45

Lab Sample ID: 480-5769-1

Matrix: Wastewater

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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
Xylenes, Total	1100		6.0	0.54	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

### Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	136000		500	100	ug/L		06/09/11 10:50	06/10/11 14:23	1
Iron	186		50.0	19.3	ug/L		06/09/11 10:50	06/10/11 14:23	1
Magnesium	81400		200	43.4	ug/L		06/09/11 10:50	06/10/11 14:23	1
Potassium	3670		500	200	ug/L		06/09/11 10:50	06/10/11 14:23	1
Sodium	65500		1000	324	ug/L		06/09/11 10:50	06/10/11 14:23	1

### 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	B	100	40.0	mg/L			06/14/11 13:25	10

## Client Sample ID: Post-Carbon

Date Collected: 06/07/11 13:25

Date Received: 06/07/11 13:45

Lab Sample ID: 480-5770-1

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		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

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

**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**

## Method: 8260B - Volatile Organic Compounds (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

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

## Client Sample ID: Post-Carbon

Date Collected: 06/07/11 13:25

Date Received: 06/07/11 13:45

## Lab Sample ID: 480-5770-1

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		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 Pesticides in Water

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
DCB Decachlorobiphenyl	87		26 - 145	06/14/11 16:49	06/16/11 11:52	1
Tetrachloro-m-xylene	89		25 - 152	06/14/11 16:49	06/16/11 11:52	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		06/09/11 10:50	06/10/11 14:25	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

**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**

## Method: 200.7 Rev 4.4 - Metals (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

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-5769-1

## Client Sample ID: Pre-Carbon

Date Collected: 06/07/11 13:30

Date Received: 06/07/11 13:45

## Lab Sample ID: 480-5769-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

## Client Sample ID: Post-Carbon

Date Collected: 06/07/11 13:25

Date Received: 06/07/11 13:45

## Lab Sample ID: 480-5770-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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 BUF
Total/NA	Analysis	420.4		1	19583	06/10/11 14:34	JR	TAL BUF
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 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: 480-5769-1

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

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
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

TestAmerica Job ID: 480-5769-1

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
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
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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-5769-1

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

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

\* 本稿は、2004年4月25日、第5回「RCEPとASEANの経済的統合」研究会（東京）で発表された。

[illegible]

Other Remarks: 19.6-1 voice / same day

## TestAmerica

1. *How many people are there in your family?*

<b>Client Information</b>		Sampler: Brent Miller Phone: 484-645-7301	Lab PM: Fischer, Brian E-Mail: brian.fischer@testamericainc.com	Ceriter Tracking No(s)	XDC No. 480-8767-1178.1
Client Contact Thomas Palmer Company: Groundwater & Environmental Services Inc Address: 158 Sonwil Drive City: Cheektowaga State, Zip: NY, 14225 Phone:		Due Date Requested:  TAT Requested (days): standard	Analysis Requested		
Email: tpalmer@gesonline.com Project Name: NYSDEC - Gastown WWTP/Gastown Site: New York		PO #: Purchase Order not requir WO #: Project #: 48002525 SSCH#:	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - FD7A W - ph 4-5 L - EDA Z - other (specify)		
<b>Sample Identification</b>	Sample Date	Sample Time	Sample Type (Comp, Grab)	MATRIX (Water, Soil, Sludge, etc.)	Total Number of containers
Post-Carbon	6-7-11	1345	G	Water	Special Instructions/Note:
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____					
Relinquished by: <i>Brent Miller</i>		Date/Time: 6-7-11 1345	Company: GOS	Received by: <i>Brian Fischer</i>	Date/Time: 6-7-11 1345
Relinquished by: _____		Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____
Relinquished by: _____		Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____
Custody Seals Intact A Yes Δ No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:	

19.6" NOICE / SANDRA

## Login Sample Receipt Checklist

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	

## Login Sample Receipt Checklist

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	

## 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

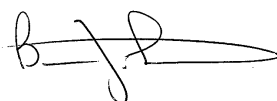
For:

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](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



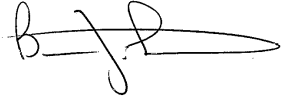
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[www.testamericainc.com](http://www.testamericainc.com)

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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.



---

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

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## Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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
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
B	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.
☼	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

TestAmerica Job ID: 480-6865-1

**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.

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-6865-1

**Client Sample ID: Post-Carbon**

**Lab Sample ID: 480-6865-1**

**Date Collected: 07/06/11 13:15**

**Matrix: Wastewater**

**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		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)

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

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-6865-1

## Client Sample ID: Post-Carbon

Date Collected: 07/06/11 13:15

Date Received: 07/06/11 13:35

Lab Sample ID: 480-6865-1

Matrix: Wastewater

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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 (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	232		50.0	19.3	ug/L		07/07/11 09:10	07/07/11 20:39	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.49		0.010	0.0050	mg/L		07/07/11 15:31	07/08/11 15:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65	HF	0.100	0.100	SU			07/06/11 21:48	1

## Client Sample ID: Pre-Carbon

Date Collected: 07/06/11 13:20

Date Received: 07/06/11 13:35

Lab Sample ID: 480-6867-1

Matrix: Wastewater

### Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	145000		500	100	ug/L		07/07/11 09:10	07/07/11 20:41	1
Iron	605		50.0	19.3	ug/L		07/07/11 09:10	07/07/11 20:41	1
Magnesium	86700		200	43.4	ug/L		07/07/11 09:10	07/07/11 20:41	1
Potassium	4620		500	200	ug/L		07/07/11 09:10	07/07/11 20:41	1
Sodium	85200		1000	324	ug/L		07/07/11 09:10	07/07/11 20:41	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		1.0	0.56	mg/L			07/08/11 13:23	2
Sulfate	171		4.0	0.70	mg/L			07/12/11 11:19	2
Alkalinity, Total	1680	B	250	100	mg/L			07/16/11 11:35	25

## Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-6865-1

### Client Sample ID: Post-Carbon

Date Collected: 07/06/11 13:15

Date Received: 07/06/11 13:35

Lab Sample ID: 480-6865-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Date Collected: 07/06/11 13:20

Date Received: 07/06/11 13:35

Lab Sample ID: 480-6867-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
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 20:41	AH	TAL BUF
Total/NA	Analysis	300.0		2	22826	07/08/11 13:23	RF	TAL BUF
Total/NA	Analysis	300.0		2	23114	07/12/11 11:19	RF	TAL BUF
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

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
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.

TestAmerica Job ID: 480-6865-1

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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-6865-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-6865-1	Post-Carbon	Wastewater	07/06/11 13:15	07/06/11 13:35
480-6867-1	Pre-Carbon	Wastewater	07/06/11 13:20	07/06/11 13:35

1

2

3

4

5

6

7

8

9

10

11

72-PM

TestAmerica

<sup>a</sup> ME = 1 kcal/kg; 2/3 = 2/3; 1/2 = 1/2; 1/4 = 1/4; 1/8 = 1/8; 1/16 = 1/16; 1/32 = 1/32; 1/64 = 1/64; 1/128 = 1/128; 1/256 = 1/256; 1/512 = 1/512; 1/1024 = 1/1024; 1/2048 = 1/2048; 1/4096 = 1/4096; 1/8192 = 1/8192; 1/16384 = 1/16384; 1/32768 = 1/32768; 1/65536 = 1/65536; 1/131072 = 1/131072; 1/262144 = 1/262144; 1/524288 = 1/524288; 1/1048576 = 1/1048576; 1/2097152 = 1/2097152; 1/4194304 = 1/4194304; 1/8388608 = 1/8388608; 1/16777216 = 1/16777216; 1/33554432 = 1/33554432; 1/67108864 = 1/67108864; 1/134217728 = 1/134217728; 1/268435456 = 1/268435456; 1/536870912 = 1/536870912; 1/1073741824 = 1/1073741824; 1/2147483648 = 1/2147483648; 1/4294967296 = 1/4294967296; 1/8589934592 = 1/8589934592; 1/17179869184 = 1/17179869184; 1/34359738368 = 1/34359738368; 1/68719476736 = 1/68719476736; 1/137438953472 = 1/137438953472; 1/274877906944 = 1/274877906944; 1/549755813888 = 1/549755813888; 1/1099511627776 = 1/1099511627776; 1/2199023255552 = 1/2199023255552; 1/4398046511104 = 1/4398046511104; 1/8796093022208 = 1/8796093022208; 1/17592186044416 = 1/17592186044416; 1/35184372088832 = 1/35184372088832; 1/70368744177664 = 1/70368744177664; 1/140737488355328 = 1/140737488355328; 1/281474976710656 = 1/281474976710656; 1/562949953421312 = 1/562949953421312; 1/1125899906842624 = 1/1125899906842624; 1/2251799813685248 = 1/2251799813685248; 1/4503599627370496 = 1/4503599627370496; 1/9007199254740992 = 1/9007199254740992; 1/18014398509481984 = 1/18014398509481984; 1/36028797018963968 = 1/36028797018963968; 1/72057594037927936 = 1/72057594037927936; 1/144115188075855872 = 1/144115188075855872; 1/288230376151711744 = 1/288230376151711744; 1/576460752303423488 = 1/576460752303423488; 1/1152921504606846976 = 1/1152921504606846976; 1/2305843009213693952 = 1/2305843009213693952; 1/4611686018427387904 = 1/4611686018427387904; 1/9223372036854775808 = 1/9223372036854775808; 1/18446744073709551616 = 1/18446744073709551616; 1/36893488147419103232 = 1/36893488147419103232; 1/73786976294838206464 = 1/73786976294838206464; 1/147573952589676412928 = 1/147573952589676412928; 1/295147905179352825856 = 1/295147905179352825856; 1/590295810358705651712 = 1/590295810358705651712; 1/1180591620717411303424 = 1/1180591620717411303424; 1/2361183241434822606848 = 1/2361183241434822606848; 1/4722366482869645213696 = 1/4722366482869645213696; 1/9444732965739290427392 = 1/9444732965739290427392; 1/18889465931478580854784 = 1/18889465931478580854784; 1/37778931862957161709568 = 1/37778931862957161709568; 1/75557863725914323419136 = 1/75557863725914323419136; 1/151115727451828646838272 = 1/151115727451828646838272; 1/302231454903657293676544 = 1/302231454903657293676544; 1/604462909807314587353088 = 1/604462909807314587353088; 1/1208925819614629174706176 = 1/1208925819614629174706176; 1/2417851639229258349412352 = 1/2417851639229258349412352; 1/4835703278458516698824704 = 1/4835703278458516698824704; 1/9671406556917033397649408 = 1/9671406556917033397649408; 1/19342813113834066795298816 = 1/19342813113834066795298816; 1/38685626227668133590597632 = 1/38685626227668133590597632; 1/77371252455336267181195264 = 1/77371252455336267181195264; 1/154742504910672534362390528 = 1/154742504910672534362390528; 1/309485009821345068724781056 = 1/309485009821345068724781056; 1/618970019642690137449562112 = 1/618970019642690137449562112; 1/1237940039285380274899124224 = 1/1237940039285380274899124224; 1/2475880078570760549798248448 = 1/2475880078570760549798248448; 1/4951760157141521099596496896 = 1/4951760157141521099596496896; 1/9903520314283042199192993792 = 1/9903520314283042199192993792; 1/19807040628566084398385987584 = 1/19807040628566084398385987584; 1/39614081257132168796771975168 = 1/39614081257132168796771975168; 1/79228162514264337593543950336 = 1/79228162514264337593543950336; 1/158456325028528675187087900672 = 1/158456325028528675187087900672; 1/316912650057057350374175801344 = 1/316912650057057350374175801344; 1/633825300114114700748351602688 = 1/633825300114114700748351602688; 1/1267650600228229401496703205376 = 1/1267650600228229401496703205376; 1/2535301200456458802993406410752 = 1/2535301200456458802993406410752; 1/5070602400912917605986812821504 = 1/5070602400912917605986812[illegible]



TestAmerica

[illegible]

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-6865-1

Login Number: 6865

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth

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	

## Login Sample Receipt Checklist

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	

## 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](mailto:brian.fischer@testamericainc.com)

### LINKS

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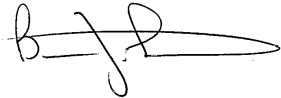
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[www.testamericainc.com](http://www.testamericainc.com)

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.

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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## Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

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

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)

## Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-8034-1

**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.



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-8034-1

**Client Sample ID: Post-Carbon**

**Lab Sample ID: 480-8034-1**

**Date Collected: 08/03/11 11:00**

**Matrix: Wastewater**

**Date Received: 08/03/11 11:15**

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

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)

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

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-8034-1

**Client Sample ID: Post-Carbon**

**Lab Sample ID: 480-8034-1**

**Date Collected: 08/03/11 11:00**

**Matrix: Wastewater**

**Date Received: 08/03/11 11:15**

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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

## Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	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
pH	7.49	HF	0.100	0.100	SU			08/04/11 21:19	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-8034-1

**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**

## Method: 200.7 Rev 4.4 - Metals (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

TestAmerica Job ID: 480-8034-1

### Client Sample ID: Post-Carbon

Date Collected: 08/03/11 11:00

Date Received: 08/03/11 11:15

Lab Sample ID: 480-8034-1

Matrix: Wastewater

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

### Client Sample ID: Pre-Carbon

Date Collected: 08/03/11 11:10

Date Received: 08/03/11 11:15

Lab Sample ID: 480-8036-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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 Job ID: 480-8034-1

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

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
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.

TestAmerica Job ID: 480-8034-1

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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-8034-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-8034-1	Post-Carbon	Wastewater	08/03/11 11:00	08/03/11 11:15
480-8036-1	Pre-Carbon	Wastewater	08/03/11 11:10	08/03/11 11:15

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## TestAmerica

[illegible][illegible]



## TestAmerica

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11

## Login Sample Receipt Checklist

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	

## Login Sample Receipt Checklist

Client: New York State D.E.C.

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	

## 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

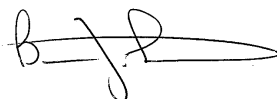
For:

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](mailto:brian.fischer@testamericainc.com)

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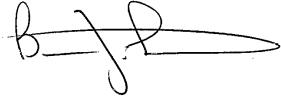
[www.testamericainc.com](http://www.testamericainc.com)

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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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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  
09/20/2011 01:34:14 PM

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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

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
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)

## 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



## Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

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### Job ID: 480-9367-1 (Continued)

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#### 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 Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

**Client Sample ID: Pre-Carbon**

**Lab Sample ID: 480-9367-1**

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

**Matrix: Wastewater**

**Date Received: 09/06/11 14:05**

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

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

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>12</b>		1.0	0.17	ug/L			09/12/11 14:36	5
<b>1,3,5-Trimethylbenzene</b>	<b>3.8</b>		1.0	0.75	ug/L			09/12/11 14:36	5
<b>Ethylbenzene</b>	<b>80</b>		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
<b>Methyl tert-butyl ether</b>	<b>0.58</b>	<b>J</b>	2.0	0.22	ug/L			09/12/11 14:36	5
<b>m,p-Xylene</b>	<b>67</b>		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 Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

**Client Sample ID: Pre-Carbon**

**Lab Sample ID: 480-9367-1**

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

**Matrix: Wastewater**

**Date Received: 09/06/11 14:05**

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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 Organic 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 (ICP)

Analyte	Result	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
Sodium	71000		1000	324	ug/L		09/08/11 08:05	09/09/11 14:21	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.56	mg/L			09/13/11 10:02	2
Sulfate	152		4.0	0.70	mg/L			09/13/11 10:02	2
Alkalinity, Total	415		100	40.0	mg/L			09/13/11 11:36	10

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

**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**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	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
<b>Chloroform</b>	<b>0.54</b>	<b>J</b>	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	1
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)	95		73 - 120					09/15/11 12:28	1

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

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
Acenaphthene	ND		4.8	0.39	ug/L		09/09/11 05:54	09/14/11 18:47	1
Acenaphthylene	ND		4.8	0.36	ug/L		09/09/11 05:54	09/14/11 18:47	1
Anthracene	ND		4.8	0.27	ug/L		09/09/11 05:54	09/14/11 18:47	1
Benzo[a]anthracene	ND		4.8	0.34	ug/L		09/09/11 05:54	09/14/11 18:47	1
Benzo[a]pyrene	ND		4.8	0.45	ug/L		09/09/11 05:54	09/14/11 18:47	1
Benzo[b]fluoranthene	ND		4.8	0.32	ug/L		09/09/11 05:54	09/14/11 18:47	1
Benzo[g,h,i]perylene	ND		4.8	0.33	ug/L		09/09/11 05:54	09/14/11 18:47	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

## 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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	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
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)

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

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

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-9367-1

## 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

### Method: 608 - Organochlorine Pesticides in Water (Continued)

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
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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	B	3.0	0.30	ug/L		09/08/11 08:05	09/09/11 14:27	1
Zinc	2.9	J B	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
pH	7.40	HF	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

## 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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Date Collected: 09/06/11 13:30

Date Received: 09/06/11 14:05

## Lab Sample ID: 480-9368-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	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
Total/NA	Analysis	420.4		1	30598	09/09/11 09:04	PN	TAL BUF
Total/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.

TestAmerica Job ID: 480-9367-1

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

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
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.

TestAmerica Job ID: 480-9367-1

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
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
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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-9367-1

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

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

10 Hazehood Drive  
Amherst, NY 14228-2208  
Phone (716) 691-2600 Fax (716) 691-7991

## TestAmerica

THE LEADER IN OFFICE-BOYER'S L.A. OFFICE

[illegible]

TestAmerica

\*49 L. A. OBER, "J. POLYMER SCI. PART A: POLYM. CHEM.", **10**, 1131 (1972).

[illegible]

## 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	

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-9367-1

**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	
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	

## 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](mailto:brian.fischer@testamericainc.com)

### LINKS

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Have a Question?



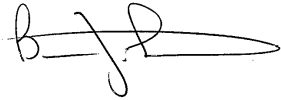
Visit us at:

[www.testamericainc.com](http://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.*

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



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## Definitions/Glossary

Client: New York State D.E.C.

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

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

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
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
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)

## 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.

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

**Client Sample ID: Pre-Carbon**

**Date Collected: 10/11/11 13:30**

**Date Received: 10/11/11 14:10**

**Lab Sample ID: 480-11022-1**

**Matrix: Wastewater**

## Method: 200.7 Rev 4.4 - Metals (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
Sulfate	166		4.0	0.70	mg/L			10/21/11 14:35	2
Alkalinity, Total	449		100	40.0	mg/L			10/18/11 12:20	10

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

**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**

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

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
1,1,1,2,2-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
<b>Chloroform</b>	<b>3.1</b>		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 - Volatile Organic Compounds (GC)

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
<b>Benzene</b>	<b>0.20</b>		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
<b>Methyl tert-butyl ether</b>	<b>0.082</b>	<b>J</b>	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

TestAmerica Job ID: 480-11022-1

**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**

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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 (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	200		50.0	19.3	ug/L		10/12/11 08:40	10/12/11 19:17	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.38		0.010	0.0050	mg/L		10/18/11 12:32	10/18/11 15:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78	HF	0.100	0.100	SU			10/12/11 23:03	1

## Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-Gastown WWTP: Site# 915171

TestAmerica Job ID: 480-11022-1

### Client Sample ID: Pre-Carbon

Date Collected: 10/11/11 13:30

Date Received: 10/11/11 14:10

### Lab Sample ID: 480-11022-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Date Collected: 10/04/11 13:15

Date Received: 10/11/11 14:10

### Lab Sample ID: 480-11023-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

## Certification Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-11022-1

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

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
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TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
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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.



## Method Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-11022-1

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

## Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-11022-1

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

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

# TestAmerica Buffalo

10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone (716) 691-2600 Fax (716) 691-7991

## Chain of Custody Record

TestAmerica  
TAM - ADER is a registered trademark of TESTAMERICA

<b>Client Information</b> Client Contact: Thomas Palmer Company: Groundwater & Environmental Services Inc. Address: 158 Sonvil Drive City: Cheektowaga State, Zip: NY, 14225 Phone: (800) 287-7857 ext 4346 Email: tpalmer@gesonline.com Project Name: NYSDEC - Gastown WWTP/Gastown Site: New York		Sample: T. Palmer Phone: (484) 325-0206 Lab PM: Fischer, Brian E-Mail: brian.fischer@testamericainc.com Carrier Tracking No(s):		COO No: 490-8740-1178.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10 (Std. Dec) PO #: Purchase Order not requir WO #:		<b>Analysis Requested</b>			
<b>Sample Identification</b> Sample Date: 10-11-11 Sample Time: 1330 Sample Type (Cat Comp, G=grab): G Matrix (Specimen, Soil, Water, Air, Sediment, Other): Water Preservation Code:		Field Filtered Sample (Yes or No): Perform (ASAP) (Yes or No): 3000 250 - (MOD) Local Method 200 7 - (MOD) Local Method 3102 - Alkalinity, Total		Total Number of Containers: 3	
Pre-Carbons		Special Instructions/Note:			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested I, II, III, IV, Other (specify):					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archiving For _____ Months					
Special Instructions/OC Requirements:					
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Date: 10-11-11 / 1410 Company: GES Conditions:		Time: 10/11/11 1410 Received by: [Signature] Received by: [Signature] Received by:	
Custody Seals Intact 3 Yes 1 No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.9	

## TestAmerica

THE LEADER IS THE RESPONSIBILITY OF THE TEAM

[illegible]

## 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**

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	

## 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**

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	