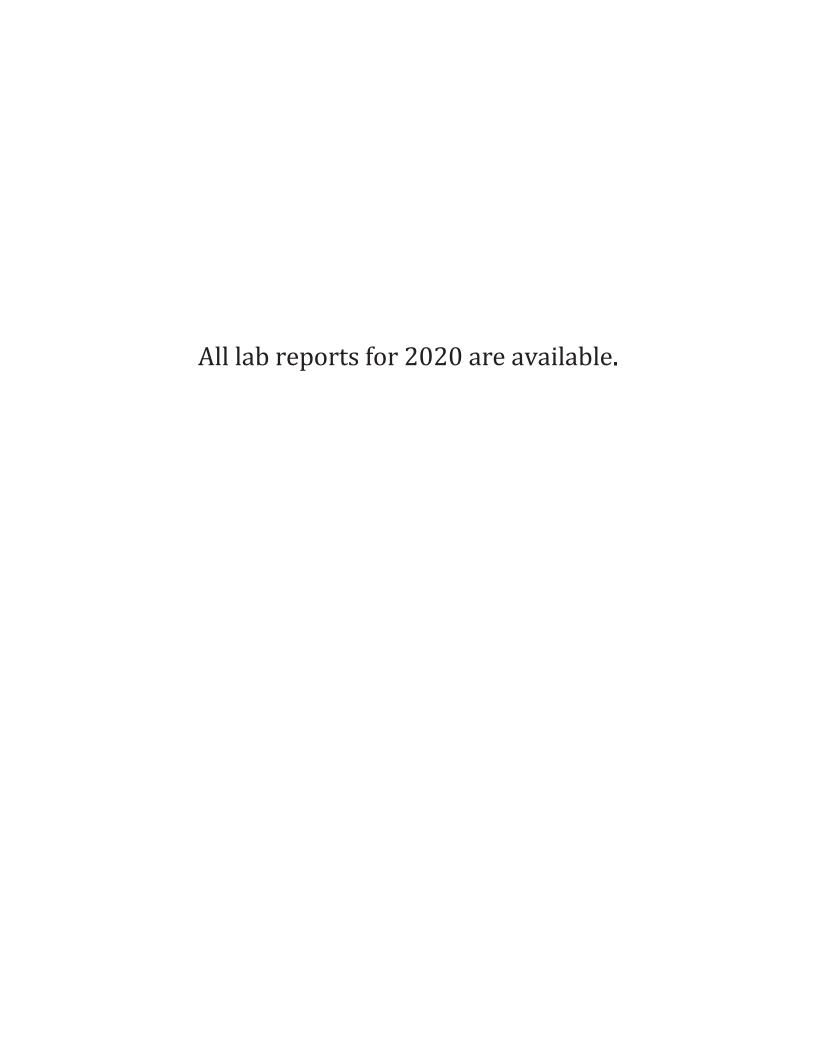
FORMER GASTOWN MGP SITE SITE NO. 915171

2020 LAB REPORTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM





Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 480-165788-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Authorized for release by:

2/10/2020 5:10:48 PM Alexander Gilbert, Project Management Assistant I alexander.gilbert@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

..... Links

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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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

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Alexander Gilbert Project Management Assistant I 2/10/2020 5:10:48 PM

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Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-165788-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Qualifiers

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

General Chemistry

Qualifier Qualifier Description

B Compound was found in the blank and sample.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)
MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: New York State D.E.C.

Job ID: 480-165788-1 Project/Site: Gastown WWTP #915171

Job ID: 480-165788-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-165788-1

Comments

No additional comments.

Receipt

The samples were received on 1/31/2020 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-165788-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-165788-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-165788-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 01/31/20 10:30 Date Received: 01/31/20 11:30

Lab Sample ID: 480-165788-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	1.0	0.82	_			02/07/20 00:54	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			02/07/20 00:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			02/07/20 00:54	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			02/07/20 00:54	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			02/07/20 00:54	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			02/07/20 00:54	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			02/07/20 00:54	
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			02/07/20 00:54	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			02/07/20 00:54	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			02/07/20 00:54	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			02/07/20 00:54	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			02/07/20 00:54	
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			02/07/20 00:54	
1,3-Dichlorobenzene	ND	1.0	0.78	-			02/07/20 00:54	
1,4-Dichlorobenzene	ND	1.0	0.84	_			02/07/20 00:54	
2-Butanone (MEK)	ND	10		ug/L			02/07/20 00:54	
2-Hexanone	ND	5.0		ug/L			02/07/20 00:54	
4-Isopropyltoluene	ND	1.0		ug/L			02/07/20 00:54	
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			02/07/20 00:54	
Acetone	ND	10		ug/L			02/07/20 00:54	
Benzene	ND	1.0	0.41	-			02/07/20 00:54	
Bromoform	ND	1.0	0.26	_			02/07/20 00:54	
Bromomethane	ND	1.0	0.69	_			02/07/20 00:54	
Carbon disulfide	ND	1.0	0.19	ū			02/07/20 00:54	
Carbon tetrachloride	ND	1.0	0.27	-			02/07/20 00:54	
Chlorobenzene	ND	1.0	0.75	-			02/07/20 00:54	
Dibromochloromethane	ND	1.0	0.32	-			02/07/20 00:54	
Chloroethane	ND	1.0	0.32	-			02/07/20 00:54	
Chloroform	ND	1.0	0.34	-			02/07/20 00:54	
Chloromethane	ND	1.0	0.35	-			02/07/20 00:54	
cis-1,2-Dichloroethene	ND	1.0	0.81	-			02/07/20 00:54	
Cyclohexane	ND	1.0	0.18	-			02/07/20 00:54	
Bromodichloromethane	ND	1.0	0.39	-			02/07/20 00:54	
Dichlorodifluoromethane	ND	1.0	0.68	-			02/07/20 00:54	
Ethylbenzene	ND	1.0	0.74	-			02/07/20 00:54	
1,2-Dibromoethane	ND	1.0	0.73	-			02/07/20 00:54	
Isopropylbenzene	ND	1.0		ug/L			02/07/20 00:54	
Methyl acetate	ND	2.5		ug/L			02/07/20 00:54	
Methyl tert-butyl ether	ND	1.0		ug/L ug/L			02/07/20 00:54	
Methylcyclohexane	ND	1.0	0.16	-			02/07/20 00:54	
• •								
Methylene Chloride m,p-Xylene	ND ND	1.0 2.0		ug/L			02/07/20 00:54 02/07/20 00:54	
., .				ug/L				
Naphthalene	ND ND	1.0		ug/L			02/07/20 00:54	
n-Butylbenzene	ND ND	1.0		ug/L			02/07/20 00:54	
N-Propylbenzene	ND	1.0		ug/L			02/07/20 00:54	
o-Xylene	ND	1.0		ug/L			02/07/20 00:54	
sec-Butylbenzene	ND	1.0		ug/L			02/07/20 00:54	
Tetrachloroethene Toluene	ND ND	1.0	0.36	ug/L ug/L			02/07/20 00:54 02/07/20 00:54	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 01/31/20 10:30 Date Received: 01/31/20 11:30 Lab Sample ID: 480-165788-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/07/20 00:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/07/20 00:54	1
Trichloroethene	ND		1.0	0.46	ug/L			02/07/20 00:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/07/20 00:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/07/20 00:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/20 00:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/07/20 00:54	1
Styrene	ND		1.0	0.73	ug/L			02/07/20 00:54	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			02/07/20 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					02/07/20 00:54	1
4-Bromofluorobenzene (Surr)	94		73 - 120					02/07/20 00:54	1
Toluene-d8 (Surr)	100		80 - 120					02/07/20 00:54	1
Dibromofluoromethane (Surr)	95		75 - 123					02/07/20 00:54	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11		0.010	0.0050	mg/L		02/04/20 09:45	02/04/20 13:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1	0.1	SU			02/03/20 19:17	1
Temperature	20.5	HE	0.001	0.001	Degrees C			02/03/20 19:17	1

Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 01/31/20 10:40

Lab Sample ID: 480-165788-2

Matrix: Wastewater

Date Received: 01/31/20 11:30

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	25	21	ug/L			02/07/20 01:18	2
1,1,2,2-Tetrachloroethane	ND	25		ug/L			02/07/20 01:18	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25		ug/L			02/07/20 01:18	2
1,1,2-Trichloroethane	ND	25		ug/L			02/07/20 01:18	2
1,1-Dichloroethane	ND	25	9.5	ug/L			02/07/20 01:18	2
1,1-Dichloroethene	ND	25	7.3	ug/L			02/07/20 01:18	2
1,2,4-Trichlorobenzene	ND	25	10	ug/L			02/07/20 01:18	2
1,2,4-Trimethylbenzene	ND	25	19	ug/L			02/07/20 01:18	:
1,2-Dibromo-3-Chloropropane	ND	25	9.8	ug/L			02/07/20 01:18	:
1,2-Dichlorobenzene	ND	25	20	ug/L			02/07/20 01:18	:
1,2-Dichloroethane	ND	25	5.3	ug/L			02/07/20 01:18	:
1,2-Dichloropropane	ND	25	18	ug/L			02/07/20 01:18	:
1,3,5-Trimethylbenzene	ND	25	19	ug/L			02/07/20 01:18	
1,3-Dichlorobenzene	ND	25		ug/L			02/07/20 01:18	:
1,4-Dichlorobenzene	ND	25		ug/L			02/07/20 01:18	:
2-Butanone (MEK)	ND	250		ug/L			02/07/20 01:18	:
2-Hexanone	ND	130		ug/L			02/07/20 01:18	
1-Isopropyltoluene	ND	25		ug/L			02/07/20 01:18	
4-Methyl-2-pentanone (MIBK)	ND	130		ug/L			02/07/20 01:18	
Acetone	ND	250		ug/L			02/07/20 01:18	:
Benzene	1900	25		ug/L			02/07/20 01:18	
Bromoform	ND	25		ug/L			02/07/20 01:18	
Bromomethane	ND	25		ug/L			02/07/20 01:18	
Carbon disulfide	ND ND	25 25		ug/L ug/L			02/07/20 01:18	
Carbon distillide	ND	25 25		ug/L ug/L			02/07/20 01:18	
Chlorobenzene	ND ND	25 25		•			02/07/20 01:18	
				ug/L				
Dibromochloromethane	ND	25		ug/L			02/07/20 01:18	
Chloroethane	ND	25		ug/L			02/07/20 01:18	
Chloroform	ND	25		ug/L			02/07/20 01:18	
Chloromethane	ND	25		ug/L			02/07/20 01:18	
cis-1,2-Dichloroethene	ND	25		ug/L			02/07/20 01:18	:
Cyclohexane	ND	25		ug/L			02/07/20 01:18	:
Bromodichloromethane	ND	25		ug/L			02/07/20 01:18	
Dichlorodifluoromethane	ND	25		ug/L			02/07/20 01:18	:
Ethylbenzene	140	25		ug/L			02/07/20 01:18	:
1,2-Dibromoethane	ND	25	18	ug/L			02/07/20 01:18	:
sopropylbenzene	ND	25		ug/L			02/07/20 01:18	
Methyl acetate	ND	63	33	ug/L			02/07/20 01:18	:
Methyl tert-butyl ether	ND	25	4.0	ug/L			02/07/20 01:18	
Methylcyclohexane	ND	25	4.0	ug/L			02/07/20 01:18	
Methylene Chloride	ND	25	11	ug/L			02/07/20 01:18	
n,p-Xylene	73	50	17	ug/L			02/07/20 01:18	
Naphthalene	180	25		ug/L			02/07/20 01:18	
n-Butylbenzene	ND	25		ug/L			02/07/20 01:18	
N-Propylbenzene	ND	25		ug/L			02/07/20 01:18	
o-Xylene	47	25		ug/L			02/07/20 01:18	
sec-Butylbenzene	ND	25		ug/L			02/07/20 01:18	
Tetrachloroethene	ND	25		ug/L			02/07/20 01:18	
Toluene	400	25		ug/L			02/07/20 01:18	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Date Received: 01/31/20 11:30

Client Sample ID: Pre-Carbon Lab Sample ID: 480-165788-2 Date Collected: 01/31/20 10:40

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND ND	25	23	ug/L			02/07/20 01:18	25
trans-1,3-Dichloropropene	ND	25	9.3	ug/L			02/07/20 01:18	25
Trichloroethene	ND	25	12	ug/L			02/07/20 01:18	25
Trichlorofluoromethane	ND	25	22	ug/L			02/07/20 01:18	25
Vinyl chloride	ND	25	23	ug/L			02/07/20 01:18	25
Xylenes, Total	120	50	17	ug/L			02/07/20 01:18	25
cis-1,3-Dichloropropene	ND	25	9.0	ug/L			02/07/20 01:18	25
Styrene	ND	25	18	ug/L			02/07/20 01:18	25
tert-Butylbenzene	ND	25	20	ug/L			02/07/20 01:18	25

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		02/07/20 01:18	25
4-Bromofluorobenzene (Surr)	95		73 - 120		02/07/20 01:18	25
Toluene-d8 (Surr)	99		80 - 120		02/07/20 01:18	25
Dibromofluoromethane (Surr)	89		75 - 123		02/07/20 01:18	25

Method: 200.7 Rev 4.4	- Metals (ICP)							
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	135000	500	100	ug/L		02/03/20 06:41	02/03/20 17:46	1
Magnesium	43800	200	43.4	ug/L		02/03/20 06:41	02/03/20 17:46	1
Potassium	3970 B	500	100	ug/L		02/03/20 06:41	02/03/20 17:46	1
Sodium	92600	1000	324	ug/L		02/03/20 06:41	02/03/20 17:46	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		2.5	1.4	mg/L			02/03/20 23:33	- 5
Sulfate	141		10.0	1.7	mg/L			02/03/20 23:33	5
Alkalinity, Total	404	В	50.0	20.0	mg/L			02/06/20 01:30	5

2/10/2020

Lab Chronicle

Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 01/31/20 10:30 Date Received: 01/31/20 11:30 Lab Sample ID: 480-165788-1

Matrix: Wastewater

Batch Dilution **Batch Prepared** Method **Factor** or Analyzed **Prep Type** Type Run Number Analyst Lab Total/NA 8260C TAL BUF Analysis 516511 02/07/20 00:54 CRL Total/NA TAL BUF Distill/CN 516118 02/04/20 09:45 JRF Prep Total/NA 335.4 Analysis 516139 02/04/20 13:33 CRK TAL BUF Total/NA TAL BUF Analysis SM 4500 H+ B 1 516033 02/03/20 19:17 BEF

Client Sample ID: Pre-Carbon

Date Collected: 01/31/20 10:40

Date Received: 01/31/20 11:30

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	516511	02/07/20 01:18	CRL	TAL BUF
Total/NA	Prep	200.7			515880	02/03/20 06:41	EMB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	516077	02/03/20 17:46	LMH	TAL BUF
Total/NA	Analysis	300.0		5	515941	02/03/20 23:33	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	516410	02/06/20 01:30	SRW	TAL BUF

Laboratory References:

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

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Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-165788-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
New York		NELAP	10026	04-01-20 *
The following analyte the agency does not do		report, but the laboratory is not	certified by the governing authority.	This list may include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
335.4	Distill/CN	Wastewater	Cyanide, Total	
		Wastewater	1,2-Dibromoethane	
8260C				
8260C SM 4500 H+ B		Wastewater	pH	

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

/lethod	Method Description	Protocol	Laboratory
3260C	Volatile Organic Compounds by GC/MS	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
35.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	рН	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

Distill/CN

EPA = US Environmental Protection Agency

Distillation, Cyanide

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

None = None

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

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Job ID: 480-165788-1

TAL BUF

None

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 480-165788-1
 Post-Carbon 2
 Wastewater
 01/31/20 10:30
 01/31/20 11:30

 480-165788-2
 Pre-Carbon
 Wastewater
 01/31/20 10:40
 01/31/20 11:30

Job ID: 480-165788-1

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Buffalo

10 Hazelwood Drive

2525 month18

Chain of Custody Record



Amherst, NY 14228

phone 716.504.9852 fax 716.691.7991																					TestAmerica Labor	ratories, Inc.
Client Contact	Project Ma	nager: Glei	nn May (NY	SDEC)		Site	Cont	act: T	homas	s Palı	mer		1	Date:	1/	31/	20)			COC No:	
Groundwater & Environmental Services, Inc	Tel/Fax: (7	16) 851-722	0.0			Lab	Cont	act: C). Johr	nson			(Carrie	r:							COCs
495 Aero Drive Suite 3 415 Cacheny Bell Drive		Analysis T	urnaround	Time																	Job No.	
Cheektowaga, NY 14225 WILLIAMSVILLE NY 14221	Calendar	(C) or Wo	ork Days (W)			_			09										1		
(800) 287-7857 Phone	_	AT if different f	rom Below				etho			- 82								1	1			
(866) 902-2187 FAX		2	weeks				etho			VOA					1						SDG No.	
Project Name: NYSDEC Gatown WWTP		1	week				Loca			st - 1	tal											
Site: 915171		1	2 days			0 8	<u>a</u>	it	1	RS II	e, To	н					1					
P O # Callout 120597 GES Project #0901691-05-220			l day			Idma	28D (MOD) Local Met	kalin		STA	anid	d-+E										
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sa	300.0_28D (MOD) Local Method	310.2 - Alkalinity		TCL and STARS list - VOA - 8260	335.4 - Cyanide, Total	SM4500_H+-pH									Sample Spec	ific Notes:
Post-Carbon 2	1/31/20	1030	Grab	W	6	N				X	x	X								T		
Pre-Carbon	1/31/20	1040	Grab	W	6	N	x y	X		X	(1		
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Page 14 of 15						П							1 1111							_		
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						Ц									_	L						
		1				11																
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=Na	OH: 6= Othe	r						1		1	+					T				1		
Possible Hazard Identification							Sam	ple D	ispos	al (A	A fee	may	/ be	asse	ssed	if sa	ampl	les a	re re	taine	ed longer than 1 mon	ith)
Non-Hazard Flammable Skin Irritant	Poison I	3 🗆	Unknown					Ret	urn To	Clie	ent	[Dispo	sal B	y La	b		\Box_A	rchiv	ve For Mo	onths
Special Instructions/QC Requirements & Comments:																						
														3	7	8	F	F	(
Refinquished by: Surfaces	Company	ZES		Date/Ti	me:	30	Recei	ived b	y:						C	ompa	any:				Date/Time:	
Relinquished by:	Company:			Date/T	ime:		Recei	ived b	y:						С	ompa	any:				Date/Time:	
Bilinquished by:	Company:			Date/T	ime:		Rece	ived b	ру:	_	1	2			C	ompa	any:	3			Date/Time:	1130
<u>0</u> 2cc									-			_									Form No. CA-C-WI-00	02, dated 04/07/20

Client: New York State D.E.C.

Job Number: 480-165788-1

List Source: Eurofins TestAmerica, Buffalo Login Number: 165788

List Number: 1

Containers are not broken or leaking.

Sample bottles are completely filled.

Multiphasic samples are not present.

Sampling Company provided.

Chlorine Residual checked.

Samples do not require splitting or compositing.

Samples received within 48 hours of sampling.

Samples requiring field filtration have been filtered in the field.

Sample Preservation Verified

MS/MSDs

diameter.

needs

Sample collection date/times are provided. Appropriate sample containers are used.

There is sufficient vol. for all requested analyses, incl. any requested

VOA sample vials do not have headspace or bubble is <6mm (1/4") in

If necessary, staff have been informed of any short hold time or quick TAT

Creator: Harper, Marcus D		
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 (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	

True

True

True

True

True True

True

True

True

True True

True

N/A

N/A

Eurofins TestAmerica, Buffalo



ANALYTICAL REPORT

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

Laboratory Job ID: 480-166849-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Joseph V. Gracomagger

Authorized for release by: 3/12/2020 2:35:30 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

LINKS

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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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Joseph V. Gireonoger

Joe Giacomazza
Project Management Assistant II
3/12/2020 2:35:30 PM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-166849-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Qualifiers

G	C/I	VI.S	V	OA

F1 MS and/or MSD recovery exceeds control limits.

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

F2 MS/MSD RPD exceeds control limits

General Chemistry

B Compound was found in the blank and sample.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly	used abbreviations may	y or may no	ot be present in this report.
--------------	----------------	------------------------	-------------	-------------------------------

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-166849-1

Job ID: 480-166849-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-166849-1

Comments

No additional comments.

Receipt

The samples were received on 2/28/2020 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-519744 recovered above the upper control limit for Isopropylbenzene. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: Post-Carbon 2 (480-166849-1) and Pre-Carbon (480-166849-2).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-166849-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-166849-2), (480-166849-E-2 MS) and (480-166849-E-2 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-166849-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-166849-1).

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-166849-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 02/28/20 09:00

Date Received: 02/28/20 10:30

Lab Sample ID: 480-166849-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			03/03/20 11:14	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			03/03/20 11:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			03/03/20 11:14	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			03/03/20 11:14	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			03/03/20 11:14	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			03/03/20 11:14	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			03/03/20 11:14	
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			03/03/20 11:14	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			03/03/20 11:14	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			03/03/20 11:14	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			03/03/20 11:14	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			03/03/20 11:14	
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			03/03/20 11:14	
1,3-Dichlorobenzene	ND	1.0		ug/L			03/03/20 11:14	
1,4-Dichlorobenzene	ND	1.0		ug/L			03/03/20 11:14	
2-Butanone (MEK)	ND	10		ug/L			03/03/20 11:14	
2-Hexanone	ND	5.0		ug/L			03/03/20 11:14	
4-Isopropyltoluene	ND	1.0		ug/L			03/03/20 11:14	
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			03/03/20 11:14	
Acetone	ND	10		ug/L			03/03/20 11:14	
Benzene	ND	1.0		ug/L			03/03/20 11:14	
Bromoform	ND	1.0		ug/L			03/03/20 11:14	
Bromomethane	ND	1.0		ug/L			03/03/20 11:14	
Carbon disulfide	0.78 J	1.0		ug/L			03/03/20 11:14	
Carbon distillide Carbon tetrachloride	ND	1.0		ug/L			03/03/20 11:14	
Chlorobenzene	ND	1.0		ug/L			03/03/20 11:14	
Dibromochloromethane	ND ND	1.0					03/03/20 11:14	
				ug/L				
Chloroethane Chloroform	ND ND	1.0 1.0		ug/L			03/03/20 11:14	
Chloromethane	ND ND	1.0		ug/L			03/03/20 11:14 03/03/20 11:14	
				ug/L				
cis-1,2-Dichloroethene	ND ND	1.0		ug/L			03/03/20 11:14	
Cyclohexane	ND	1.0		ug/L			03/03/20 11:14	
Bromodichloromethane	ND	1.0		ug/L			03/03/20 11:14	
Dichlorodifluoromethane	ND	1.0		ug/L			03/03/20 11:14	
Ethylbenzene	ND	1.0		ug/L			03/03/20 11:14	
1,2-Dibromoethane	ND	1.0		ug/L			03/03/20 11:14	
Isopropylbenzene	ND	1.0		ug/L			03/03/20 11:14	
Methyl acetate	ND	2.5		ug/L			03/03/20 11:14	
Methyl tert-butyl ether	ND	1.0		ug/L			03/03/20 11:14	
Methylcyclohexane	ND	1.0		ug/L			03/03/20 11:14	
Methylene Chloride	ND	1.0		ug/L			03/03/20 11:14	
m,p-Xylene	ND	2.0		ug/L			03/03/20 11:14	
Naphthalene	ND	1.0		ug/L			03/03/20 11:14	
n-Butylbenzene	ND	1.0		ug/L			03/03/20 11:14	
N-Propylbenzene	ND	1.0		ug/L			03/03/20 11:14	
o-Xylene	ND	1.0	0.76	ug/L			03/03/20 11:14	
sec-Butylbenzene	ND	1.0	0.75	ug/L			03/03/20 11:14	
Tetrachloroethene	ND	1.0	0.36	ug/L			03/03/20 11:14	

Eurofins TestAmerica, Buffalo

3/12/2020

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Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Lab Sample ID: 480-166849-1 Date Collected: 02/28/20 09:00

Matrix: Wastewater

Date Received: 02/28/20 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/03/20 11:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/03/20 11:14	1
Trichloroethene	ND		1.0	0.46	ug/L			03/03/20 11:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/03/20 11:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/03/20 11:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/03/20 11:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/03/20 11:14	1
Styrene	ND		1.0	0.73	ug/L			03/03/20 11:14	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/03/20 11:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120			-		03/03/20 11:14	1
4-Bromofluorobenzene (Surr)	102		73 - 120					03/03/20 11:14	1
Toluene-d8 (Surr)	103		80 - 120					03/03/20 11:14	1
Dibromofluoromethane (Surr)	93		75 - 123					03/03/20 11:14	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10		0.010	0.0050	mg/L		02/28/20 14:25	02/28/20 15:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
рН	7.9	HF	0.1	0.1	SU			03/11/20 11:30	1
Temperature	19.6	HF	0.001	0.001	Degrees C			03/11/20 11:30	1

3/12/2020

Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-166849-2

Matrix: Wastewater

Date Collected: 02/28/20 09:10 Date Received: 02/28/20 10:30

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND —	5.0	4.1	ug/L			03/03/20 11:38	
1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/L			03/03/20 11:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	1.6	ug/L			03/03/20 11:38	
1,1,2-Trichloroethane	ND	5.0	1.2	ug/L			03/03/20 11:38	
1,1-Dichloroethane	ND	5.0	1.9	ug/L			03/03/20 11:38	
1,1-Dichloroethene	ND	5.0	1.5	ug/L			03/03/20 11:38	
1,2,4-Trichlorobenzene	ND	5.0	2.1	ug/L			03/03/20 11:38	
I,2,4-Trimethylbenzene	5.3	5.0	3.8	ug/L			03/03/20 11:38	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.0	ug/L			03/03/20 11:38	
,2-Dichlorobenzene	ND	5.0	4.0	ug/L			03/03/20 11:38	
1,2-Dichloroethane	ND	5.0	1.1	ug/L			03/03/20 11:38	
1,2-Dichloropropane	ND	5.0	3.6	ug/L			03/03/20 11:38	
,3,5-Trimethylbenzene	ND	5.0	3.9	ug/L			03/03/20 11:38	
1,3-Dichlorobenzene	ND	5.0		ug/L			03/03/20 11:38	
,4-Dichlorobenzene	ND	5.0		ug/L			03/03/20 11:38	
P-Butanone (MEK)	ND	50		ug/L			03/03/20 11:38	
2-Hexanone	ND	25		ug/L			03/03/20 11:38	
I-Isopropyltoluene	ND	5.0		ug/L			03/03/20 11:38	
I-Methyl-2-pentanone (MIBK)	ND	25		ug/L			03/03/20 11:38	
Acetone	ND	50		ug/L			03/03/20 11:38	
Bromoform	ND	5.0		ug/L			03/03/20 11:38	
romomethane	ND	5.0		ug/L			03/03/20 11:38	
Carbon disulfide	ND	5.0		ug/L			03/03/20 11:38	
Carbon tetrachloride	ND	5.0		ug/L			03/03/20 11:38	
Chlorobenzene	ND ND	5.0		ug/L			03/03/20 11:38	
Dibromochloromethane	ND	5.0		ug/L			03/03/20 11:38	
Chloroethane	ND ND	5.0						
				ug/L			03/03/20 11:38	
Chloroform	ND	5.0		ug/L			03/03/20 11:38	
Chloromethane	ND	5.0		ug/L			03/03/20 11:38	
is-1,2-Dichloroethene	4.8 J	5.0		ug/L			03/03/20 11:38	
Cyclohexane	ND	5.0		ug/L			03/03/20 11:38	
Bromodichloromethane	ND	5.0		ug/L			03/03/20 11:38	
Dichlorodifluoromethane	ND	5.0		ug/L			03/03/20 11:38	
Ethylbenzene	99	5.0		ug/L			03/03/20 11:38	
,2-Dibromoethane	ND	5.0	3.7	ug/L			03/03/20 11:38	
sopropylbenzene	ND	5.0		ug/L			03/03/20 11:38	
Methyl acetate	ND	13		ug/L			03/03/20 11:38	
Methyl tert-butyl ether	ND	5.0		ug/L			03/03/20 11:38	
Methylcyclohexane	ND	5.0		ug/L			03/03/20 11:38	
Methylene Chloride	ND	5.0	2.2	ug/L			03/03/20 11:38	
n,p-Xylene	47	10		ug/L			03/03/20 11:38	
laphthalene	71	5.0		ug/L			03/03/20 11:38	
n-Butylbenzene	ND	5.0	3.2	ug/L			03/03/20 11:38	
N-Propylbenzene	ND	5.0	3.5	ug/L			03/03/20 11:38	
-Xylene	27	5.0	3.8	ug/L			03/03/20 11:38	
sec-Butylbenzene	ND	5.0	3.8	ug/L			03/03/20 11:38	
Tetrachloroethene	ND	5.0	1.8	ug/L			03/03/20 11:38	
Foluene	240	5.0	2.6	ug/L			03/03/20 11:38	
rans-1,2-Dichloroethene	ND	5.0	4.5	ug/L			03/03/20 11:38	

Eurofins TestAmerica, Buffalo

3/12/2020

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

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-166849-2 Date Collected: 02/28/20 09:10

Matrix: Wastewater

Date Received: 02/28/20 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/03/20 11:38	5
Trichloroethene	ND		5.0	2.3	ug/L			03/03/20 11:38	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/03/20 11:38	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/03/20 11:38	5
Xylenes, Total	74		10	3.3	ug/L			03/03/20 11:38	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/03/20 11:38	5
Styrene	19		5.0	3.7	ug/L			03/03/20 11:38	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			03/03/20 11:38	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120			-		03/03/20 11:38	5
4-Bromofluorobenzene (Surr)	98		73 - 120					03/03/20 11:38	5
Toluene-d8 (Surr)	105		80 - 120					03/03/20 11:38	5
Dibromofluoromethane (Surr)	92		75 - 123					03/03/20 11:38	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1300	F1	20	8.2	ug/L			03/04/20 16:59	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		77 - 120			-		03/04/20 16:59	20
4-Bromofluorobenzene (Surr)	99		73 - 120					03/04/20 16:59	20
Toluene-d8 (Surr)	97		80 - 120					03/04/20 16:59	20
Dibromofluoromethane (Surr)	94		75 - 123					03/04/20 16:59	20

Method: 200.7 Rev 4.4 - Metals (IC	:P)								
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	129000 F	2	500	100	ug/L		03/02/20 08:40	03/02/20 16:16	1
Magnesium	40200 F	2	200	43.4	ug/L		03/02/20 08:40	03/02/20 16:16	1
Potassium	3500 F	2	500	100	ug/L		03/02/20 08:40	03/02/20 16:16	1
Sodium	76100 F	2	1000	324	ug/L		03/02/20 08:40	03/02/20 16:16	1

General Chemistry								
Analyte	Result Qualif	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139	2.5	1.4	mg/L			03/03/20 18:30	5
Sulfate	120	10.0	1.7	mg/L			03/03/20 18:30	5
Alkalinity, Total	355 B	40.0	16.0	mg/L			02/29/20 01:51	4

Lab Chronicle

Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Received: 02/28/20 10:30

Lab Sample ID: 480-166849-1 Date Collected: 02/28/20 09:00 **Matrix: Wastewater**

	Batch	Batch Dilu		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	519744	03/03/20 11:14	CRL	TAL BUF
Total/NA	Prep	Distill/CN			519464	02/28/20 14:25	JRF	TAL BUF
Total/NA	Analysis	335.4		1	519482	02/28/20 15:31	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	520977	03/11/20 11:30	DLG	TAL BUF

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-166849-2 Date Collected: 02/28/20 09:10

Matrix: Wastewater

Date Received: 02/28/20 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	519744	03/03/20 11:38	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	20	519949	03/04/20 16:59	RJF	TAL BUF
Total/NA	Prep	200.7			519567	03/02/20 08:40	EMB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	519765	03/02/20 16:16	LMH	TAL BUF
Total/NA	Analysis	300.0		5	519846	03/03/20 18:30	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	519507	02/29/20 01:51	SRW	TAL BUF

Laboratory References:

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

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date		
New York		NELAP	10026	04-01-20		
,	collowing analytes are included in this report, but the laboratory is not certified by the governing authority. The gency does not offer certification. A prep Method Distill/CN Matrix Wastewater Analyte Cyanide, Total		by the governing authority. This list ma	y include analytes for which		
Analysis Method	Prep Method	Matrix	Analyte			
Analysis Method 335.4						
		Wastewater	Cyanide, Total			

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Method Summary

Client: New York State D.E.C. Job ID: 480-166849-1

Project/Site: Gastown WWTP #915171

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-166849-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-166849-1	Post-Carbon 2	Wastewater	02/28/20 09:00	02/28/20 10:30	
480-166849-2	Pre-Carbon	Wastewater	02/28/20 09:10	02/28/20 10:30	

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10 Hazelwood Drive

Chain of Custody Record

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of 15	

Eurofins TestAmerica, Buffalo 0 Hazelwood Drive mherst, NY 14228-2298 hone: 716-691-7991	Chain of Custody Re						ord										Š	eurofins Environment Te TestAmerica			
Client Information	Sampler:			Lab F Johr		Orlette	S					Carri	ier Trac	king N	o(s):			COC No: 480-143013-280	90.1		
lient Contact: 'homas Palmer	Phone:	A STATE OF THE STA	7	E-Ma	il:	nson@		meric	ainc	.com								Page: Page 1 of 1			
ompany: Groundwater & Environmental Services Inc						Analysis Requested						sted					Job #:				
ddress:	Due Date Requeste	ed:																Preservation Cod	es:		
15 Lawrence Bell Drive Suite 6 ity: Villiamsville tate, Zip: IV, 14221 hone: 18-402-9662(Tel)	TAT Requested (days): PO #: CallOut ID 136076										ontainers						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydra	N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3			
mail: palmer@gesonline.com	WO#:				or No	6											I - Ice U - Acetone J - DI Water V - MCAA				
Croject Name: Castown WWTP #915171 - Monthly Event Desc: Monthly Gite:	Project #: 48002525 SSOW#:	Project #: 48002525				Stars) (Stars)				otal						containers	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)			
New York			Sample	Matrix	tered Sar	Cyanide, Total	H4 - PH	- TCL + CP-51	CI, SC	Mg, K,	Kalinity, 1						Number of				
Sample Identification	Sample Date	Sample Time	Type (C=comp, G=grab)		Field Fil	335.4 - C	SM4500_H+ - pH	8260C - 1	300.0_28D - CI,	200.7 - Ca,	310.2 - Alkalinity,						Total Nu	Special II	structions/Note:		
		><	Preservat		X	В	N	A I	V	D N							X				
Post-Carbon 2	220	००१००	6	Water	MA	0	1	/			1				1	-	188				
Pre-Carbon	2 28 20	0190	G	Water	WI	V		/	/	/	1	4			_	_	20				
					Ш						_	1									
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					$\dagger \dagger$	+							\top				100				
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po Deliverable Requested: I, II, III, IV, Other (specify)	oison B 🖾 Unk	nown 🗆	Radiological				Retur	n To C	Clien	t	6	Disp ments:	osal l	if sa By La	mple.			ned longer than chive For	1 month) Months		
Empty Kit Relinquished by:		Date:			Tim	ie:	_	_		live (_		Meth	nod of	Shipme	ent:					
Relinquished by	Date/Time/	103		Company	٠			by:	51	18						Time: 28	8-7	20 10:30			
Relinquished by:	Date/Time:			Company		Red	eived	Dy:							Date/	I ime:			Company		
Relinquished by:	Date/Time:	***************************************		Company		Red	eived	by:							Date/	Time:			Company		
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cod	oler Te	mperati	ure(s)	°C and	Othe	er Remai	rks:				2.	(#(Var. 01/16/2010		

Client: New York State D.E.C.

Job Number: 480-166849-1

Login Number: 166849 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

oreator. Harper, marcas b		
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 (Excluding tests with immediate HTs)	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	

Eurofins TestAmerica, Buffalo



Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 480-167889-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Quarterly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Joseph V. Gracomagger

Authorized for release by: 4/3/2020 10:07:46 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 480-167889-1

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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.

Joseph V. giveonogen

Joe Giacomazza

Project Management Assistant II

4/3/2020 10:07:46 AM

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Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-167889-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

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 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.

General Chemistry

Qualifier	Qualifier Descrip	tio
Qualifier	Qualifier Descrip	uoi

B Compound was found in the blank and sample.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

Eurofins TestAmerica, Buffalo

4/3/2020

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Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-167889-1

Job ID: 480-167889-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-167889-1

Comments

No additional comments.

Receipt

The samples were received on 3/27/2020 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-523492 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is: Post-Carbon 2 (480-167889-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-523492 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Methylcyclohexane. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported. The associated sample is impacted: Post-Carbon 2 (480-167889-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-523587 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Pre-Carbon (480-167889-2).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-167889-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-523651 recovered outside acceptance criteria, low biased, for Carbazole. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: Pre-Carbon (480-167889-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-167889-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-167889-1

Job ID: 480-167889-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-167889-1

RL

MDL Unit

D

Prepared

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Method: 8260C - Volatile Organic Compounds by GC/MS

Result Qualifier

ND

ND

ND

ND

ND

ND

ND

Date Collected: 03/27/20 08:50 Date Received: 03/27/20 09:35

Analyte

Naphthalene

o-Xylene

Toluene

n-Butylbenzene

N-Propylbenzene

sec-Butylbenzene

Tetrachloroethene

Lab Sample ID: 480-167889-1

Analyzed

Matrix: Wastewater

Allalyto	Mosuit Qualifier		MDL OIII	D Troparca	Allalyzea	Diriac
1,1,1-Trichloroethane	ND -	1.0	0.82 ug/L		03/30/20 18:20	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21 ug/L		03/30/20 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31 ug/L		03/30/20 18:20	1
1,1,2-Trichloroethane	ND	1.0	0.23 ug/L		03/30/20 18:20	1
1,1-Dichloroethane	ND	1.0	0.38 ug/L		03/30/20 18:20	1
1,1-Dichloroethene	ND	1.0	0.29 ug/L		03/30/20 18:20	1
1,2,4-Trichlorobenzene	ND	1.0	0.41 ug/L		03/30/20 18:20	1
1,2,4-Trimethylbenzene	ND	1.0	0.75 ug/L		03/30/20 18:20	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39 ug/L		03/30/20 18:20	1
1,2-Dichlorobenzene	ND	1.0	0.79 ug/L		03/30/20 18:20	1
1,2-Dichloroethane	ND	1.0	0.21 ug/L		03/30/20 18:20	1
1,2-Dichloropropane	ND	1.0	0.72 ug/L		03/30/20 18:20	1
1,3,5-Trimethylbenzene	ND	1.0	0.77 ug/L		03/30/20 18:20	1
1,3-Dichlorobenzene	ND	1.0	0.78 ug/L		03/30/20 18:20	1
1,4-Dichlorobenzene	ND	1.0	0.84 ug/L		03/30/20 18:20	1
2-Butanone (MEK)	ND	10	1.3 ug/L		03/30/20 18:20	1
2-Hexanone	ND	5.0	1.2 ug/L		03/30/20 18:20	1
4-Isopropyltoluene	ND	1.0	0.31 ug/L		03/30/20 18:20	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1 ug/L		03/30/20 18:20	1
Acetone	ND	10	3.0 ug/L		03/30/20 18:20	1
Benzene	ND	1.0	0.41 ug/L		03/30/20 18:20	1
Bromoform	ND	1.0	0.26 ug/L		03/30/20 18:20	1
Bromomethane	ND	1.0	0.69 ug/L		03/30/20 18:20	1
Carbon disulfide	ND	1.0	0.19 ug/L		03/30/20 18:20	1
Carbon tetrachloride	ND	1.0	0.27 ug/L		03/30/20 18:20	1
Chlorobenzene	ND	1.0	0.75 ug/L		03/30/20 18:20	1
Dibromochloromethane	ND	1.0	0.32 ug/L		03/30/20 18:20	1
Chloroethane	ND	1.0	0.32 ug/L		03/30/20 18:20	1
Chloroform	0.74 J	1.0	0.34 ug/L		03/30/20 18:20	1
Chloromethane	ND	1.0	0.35 ug/L		03/30/20 18:20	1
cis-1,2-Dichloroethene	ND	1.0	0.81 ug/L		03/30/20 18:20	1
Cyclohexane	ND	1.0	0.18 ug/L		03/30/20 18:20	1
Bromodichloromethane	ND	1.0	0.39 ug/L		03/30/20 18:20	1
Dichlorodifluoromethane	ND	1.0	0.68 ug/L		03/30/20 18:20	1
Ethylbenzene	ND	1.0	0.74 ug/L		03/30/20 18:20	1
1,2-Dibromoethane	ND	1.0	0.73 ug/L		03/30/20 18:20	1
Isopropylbenzene	ND	1.0	0.79 ug/L		03/30/20 18:20	1
Methyl acetate	ND	2.5	1.3 ug/L		03/30/20 18:20	1
Methyl tert-butyl ether	ND	1.0	0.16 ug/L		03/30/20 18:20	1
Methylcyclohexane	ND	1.0	0.16 ug/L		03/30/20 18:20	1
	ND	1.0	0.10 ag/L			
Methylene Chloride	ND	1.0	0.44 ug/L		03/30/20 18:20	1

Eurofins TestAmerica, Buffalo

4/3/2020

03/30/20 18:20

03/30/20 18:20

03/30/20 18:20

03/30/20 18:20

03/30/20 18:20

03/30/20 18:20

03/30/20 18:20

Page 7 of 17

1.0

1.0

1.0

1.0

1.0

1.0

1.0

0.43 ug/L

0.64 ug/L

0.69 ug/L

0.76 ug/L

0.75 ug/L

0.36 ug/L

0.51 ug/L

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Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 03/27/20 08:50 Date Received: 03/27/20 09:35

2-Fluorobiphenyl

p-Terphenyl-d14

2-Fluorophenol

2,4,6-Tribromophenol

Phenol-d5

Client: New York State D.E.C.

Lab Sample ID: 480-167889-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/30/20 18:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/20 18:20	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/20 18:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/30/20 18:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/30/20 18:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/30/20 18:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/20 18:20	1
Styrene	ND		1.0	0.73	ug/L			03/30/20 18:20	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/30/20 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120			-		03/30/20 18:20	1
4-Bromofluorobenzene (Surr)	102		73 - 120					03/30/20 18:20	1
Toluene-d8 (Surr)	106		80 - 120					03/30/20 18:20	1
Dibromofluoromethane (Surr)	95		75 - 123					03/30/20 18:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		03/30/20 09:14	03/31/20 13:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/30/20 09:14	03/31/20 13:28	1
Acenaphthene	ND		5.0	0.41	ug/L		03/30/20 09:14	03/31/20 13:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/30/20 09:14	03/31/20 13:28	1
Anthracene	ND		5.0	0.28	ug/L		03/30/20 09:14	03/31/20 13:28	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		03/30/20 09:14	03/31/20 13:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		03/30/20 09:14	03/31/20 13:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		03/30/20 09:14	03/31/20 13:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		03/30/20 09:14	03/31/20 13:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		03/30/20 09:14	03/31/20 13:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/30/20 09:14	03/31/20 13:28	1
Carbazole	ND		5.0	0.30	ug/L		03/30/20 09:14	03/31/20 13:28	1
Chrysene	ND		5.0	0.33	ug/L		03/30/20 09:14	03/31/20 13:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/30/20 09:14	03/31/20 13:28	1
Dibenzofuran	ND		10	0.51	ug/L		03/30/20 09:14	03/31/20 13:28	1
Fluoranthene	ND		5.0	0.40	ug/L		03/30/20 09:14	03/31/20 13:28	1
Fluorene	ND		5.0	0.36	ug/L		03/30/20 09:14	03/31/20 13:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		03/30/20 09:14	03/31/20 13:28	1
Naphthalene	ND		5.0	0.76	ug/L		03/30/20 09:14	03/31/20 13:28	1
Pentachlorophenol	ND		10	2.2	ug/L		03/30/20 09:14	03/31/20 13:28	1
Phenanthrene	ND		5.0	0.44	ug/L		03/30/20 09:14	03/31/20 13:28	1
Phenol	ND		5.0	0.39	ug/L		03/30/20 09:14	03/31/20 13:28	1
Pyrene	ND		5.0	0.34	ug/L		03/30/20 09:14	03/31/20 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		46 - 120				03/30/20 09:14	03/31/20 13:28	1

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4/3/2020

03/31/20 13:28

03/30/20 09:14

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Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 03/27/20 08:50 Date Received: 03/27/20 09:35

Biochemical Oxygen Demand

Total Suspended Solids

Analyte

Temperature

Lab Sample ID: 480-167889-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0081	ug/L		03/27/20 15:20	03/30/20 15:48	1
alpha-BHC	ND		0.050	0.0077	ug/L		03/27/20 15:20	03/30/20 15:48	1
beta-BHC	ND		0.050	0.025	ug/L		03/27/20 15:20	03/30/20 15:48	1
delta-BHC	0.013	JB	0.050	0.010	ug/L		03/27/20 15:20	03/30/20 15:48	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		03/27/20 15:20	03/30/20 15:48	1
Chlordane (technical)	ND		0.50	0.29	ug/L		03/27/20 15:20	03/30/20 15:48	1
4,4'-DDD	ND		0.050	0.0092	ug/L		03/27/20 15:20	03/30/20 15:48	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/27/20 15:20	03/30/20 15:48	1
4,4'-DDT	ND		0.050	0.011	ug/L		03/27/20 15:20	03/30/20 15:48	1
Dieldrin	ND		0.050	0.0098	ug/L		03/27/20 15:20	03/30/20 15:48	1
Endosulfan I	ND		0.050	0.011	ug/L		03/27/20 15:20	03/30/20 15:48	1
Endosulfan II	ND		0.050	0.012	ug/L		03/27/20 15:20	03/30/20 15:48	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/27/20 15:20	03/30/20 15:48	1
Endrin	ND		0.050	0.014	ug/L		03/27/20 15:20	03/30/20 15:48	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/27/20 15:20	03/30/20 15:48	1
Heptachlor	ND		0.050	0.0085	ug/L		03/27/20 15:20	03/30/20 15:48	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		03/27/20 15:20	03/30/20 15:48	1
Toxaphene	ND		0.50	0.12	ug/L		03/27/20 15:20	03/30/20 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		23 - 120				03/27/20 15:20	03/30/20 15:48	1
Tetrachloro-m-xylene	86		44 - 120				03/27/20 15:20	03/30/20 15:48	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.8	1.3	mg/L		03/30/20 17:38	03/30/20 18:38	1
Cyanide, Total	0.011		0.010	0.0050	mg/L		03/30/20 11:30	03/30/20 14:19	1
Phenolics, Total Recoverable	0.010	В	0.010	0.0050	mg/L		03/27/20 17:35	03/29/20 10:03	1
Total Dissolved Solids	244		10.0	4.0	mg/L			03/27/20 17:11	1

2.0

RL

4.0

0.1

0.001

2.0 mg/L

RL Unit

4.0 mg/L

0.001 Degrees C

0.1 SU

ND

ND

Result Qualifier

7.6 HF 17.5 HF 03/28/20 08:01

Analyzed

03/27/20 18:29

03/29/20 11:48

03/29/20 11:48

Dil Fac

Prepared

D

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4/3/2020

Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 03/27/20 09:00

Lab Sample ID: 480-167889-2

Matrix: Wastewater

Date Received: 03/27/20 09:35

Analyte	Result Qualifi	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
,1,1-Trichloroethane	ND	4.0	3.3	ug/L			03/30/20 23:22	
1,1,2,2-Tetrachloroethane	ND	4.0	0.84	ug/L			03/30/20 23:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	1.2	ug/L			03/30/20 23:22	
I,1,2-Trichloroethane	ND	4.0	0.92	ug/L			03/30/20 23:22	
I,1-Dichloroethane	ND	4.0	1.5	ug/L			03/30/20 23:22	
,1-Dichloroethene	ND	4.0	1.2	ug/L			03/30/20 23:22	
,2,4-Trichlorobenzene	ND	4.0	1.6	ug/L			03/30/20 23:22	
,2,4-Trimethylbenzene	ND	4.0	3.0	ug/L			03/30/20 23:22	
,2-Dibromo-3-Chloropropane	ND	4.0	1.6	ug/L			03/30/20 23:22	
,2-Dichlorobenzene	ND	4.0	3.2	ug/L			03/30/20 23:22	
,2-Dichloroethane	ND	4.0		ug/L			03/30/20 23:22	
l,2-Dichloropropane	ND	4.0		ug/L			03/30/20 23:22	
I,3,5-Trimethylbenzene	ND	4.0		ug/L			03/30/20 23:22	
,3-Dichlorobenzene	ND	4.0		ug/L			03/30/20 23:22	
,4-Dichlorobenzene	ND	4.0		ug/L			03/30/20 23:22	
P-Butanone (MEK)	ND	40		ug/L			03/30/20 23:22	
2-Hexanone	ND	20		ug/L			03/30/20 23:22	
I-Isopropyltoluene	ND	4.0		ug/L			03/30/20 23:22	
-Methyl-2-pentanone (MIBK)	ND	20		ug/L			03/30/20 23:22	
Acetone	ND ND	40		ug/L ug/L			03/30/20 23:22	
				_			03/30/20 23:22	
enzene	160	4.0		ug/L				
dromoform	ND ND	4.0		ug/L			03/30/20 23:22	
romomethane	ND	4.0		ug/L			03/30/20 23:22	
Carbon disulfide	ND	4.0	0.76				03/30/20 23:22	
carbon tetrachloride	ND	4.0		ug/L 			03/30/20 23:22	
Chlorobenzene	ND	4.0		ug/L			03/30/20 23:22	
Dibromochloromethane	3.0 J	4.0		ug/L			03/30/20 23:22	
Chloroethane	ND	4.0		ug/L			03/30/20 23:22	
Chloroform	11	4.0		ug/L			03/30/20 23:22	
Chloromethane	ND	4.0		ug/L			03/30/20 23:22	
is-1,2-Dichloroethene	ND	4.0		ug/L			03/30/20 23:22	
cyclohexane	ND	4.0	0.72	ug/L			03/30/20 23:22	
Bromodichloromethane	7.0	4.0	1.6	ug/L			03/30/20 23:22	
Dichlorodifluoromethane	ND	4.0	2.7	ug/L			03/30/20 23:22	
Ethylbenzene	19	4.0	3.0	ug/L			03/30/20 23:22	
,2-Dibromoethane	ND	4.0	2.9	ug/L			03/30/20 23:22	
sopropylbenzene	ND	4.0	3.2	ug/L			03/30/20 23:22	
Nethyl acetate	ND	10	5.2	ug/L			03/30/20 23:22	
Nethyl tert-butyl ether	ND	4.0	0.64	ug/L			03/30/20 23:22	
lethylcyclohexane	ND	4.0	0.64	ug/L			03/30/20 23:22	
Methylene Chloride	ND	4.0	1.8	ug/L			03/30/20 23:22	
n,p-Xylene	5.2 J	8.0	2.6	ug/L			03/30/20 23:22	
laphthalene	22	4.0	1.7	ug/L			03/30/20 23:22	
-Butylbenzene	ND	4.0		ug/L			03/30/20 23:22	
I-Propylbenzene	ND	4.0		ug/L			03/30/20 23:22	
-Xylene	4.3	4.0		ug/L			03/30/20 23:22	
sec-Butylbenzene	ND	4.0		ug/L			03/30/20 23:22	
Fetrachloroethene	ND	4.0		ug/L			03/30/20 23:22	
Foluene	28	4.0		ug/L			03/30/20 23:22	

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Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-167889-2

Matrix: Wastewater

Date Collected: 03/27/20 09:00 Date Received: 03/27/20 09:35

General Chemistry

Analyte

Chloride

Sulfate

Alkalinity, Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	MD		4.0	3.6	ug/L			03/30/20 23:22	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/30/20 23:22	4
Trichloroethene	ND		4.0	1.8	ug/L			03/30/20 23:22	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/30/20 23:22	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/30/20 23:22	4
Xylenes, Total	9.5		8.0	2.6	ug/L			03/30/20 23:22	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/30/20 23:22	4
Styrene	ND		4.0	2.9	ug/L			03/30/20 23:22	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			03/30/20 23:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					03/30/20 23:22	4
4-Bromofluorobenzene (Surr)	97		73 - 120					03/30/20 23:22	4
Toluene-d8 (Surr)	105		80 - 120					03/30/20 23:22	4
Dibromofluoromethane (Surr)	106		75 - 123					03/30/20 23:22	4
Method: 200.7 Rev 4.4 - Metals	(ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	44700		500	100	ug/L		03/29/20 14:14	03/30/20 13:38	1
Magnesium	12900		200	43.4	ug/L		03/29/20 14:14	03/30/20 13:38	1
Potassium	1700		500	100	ug/L		03/29/20 14:14	03/30/20 13:38	1
Sodium	20200		1000	324	ug/L		03/29/20 14:14	03/30/20 13:38	1

RL

2.5

10.0

40.0

MDL Unit

1.4 mg/L

1.7 mg/L

16.0 mg/L

Prepared

Analyzed

03/31/20 13:04 03/31/20 13:04

03/30/20 11:17

Dil Fac

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Result Qualifier

33.6

30.5

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4/3/2020

Lab Chronicle

Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 03/27/20 08:50 Date Received: 03/27/20 09:35

Matrix: Wastewater

Lab Sample ID: 480-167889-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	523492	03/30/20 18:20	CDC	TAL BUF
Total/NA	Prep	3510C			523479	03/30/20 09:14	JMP	TAL BUF
Total/NA	Analysis	8270D		1	523651	03/31/20 13:28	JMM	TAL BUF
Total/NA	Prep	3510C			523349	03/27/20 15:20	ATG	TAL BUF
Total/NA	Analysis	608.3		1	523487	03/30/20 15:48	JLS	TAL BUF
Total/NA	Prep	1664B			523580	03/30/20 17:38	T1S	TAL BUF
Total/NA	Analysis	1664B		1	523586	03/30/20 18:38	T1S	TAL BUF
Total/NA	Prep	Distill/CN			523517	03/30/20 11:30	JRF	TAL BUF
Total/NA	Analysis	335.4		1	523548	03/30/20 14:19	JRF	TAL BUF
Total/NA	Prep	Distill/Phenol			523368	03/27/20 17:35	E1T	TAL BUF
Total/NA	Analysis	420.1		1	523420	03/29/20 10:03	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	523366	03/27/20 17:11	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	523369	03/27/20 18:29	E1T	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	523418	03/29/20 11:48	BEF	TAL BUF
Total/NA	Analysis	SM 5210B		1	523396	03/28/20 08:01	EY	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 03/27/20 09:00

Date Received: 03/27/20 09:35

Lab Sample ID: 480-167889-2

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	523587	03/30/20 23:22	CRL	TAL BUF
Total/NA	Prep	200.7			523358	03/29/20 14:14	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	523605	03/30/20 13:38	AMH	TAL BUF
Total/NA	Analysis	300.0		5	523647	03/31/20 13:04	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	523537	03/30/20 11:17	KEB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date		
New York		NELAP	10026	04-01-20		
The following analytes the agency does not of		ort, but the laboratory is not certifi	by the governing authority. This list ma	ay include analytes for whic		
Analysis Method	Prep Method	Matrix	Analyte			
Analysis Method 335.4	Prep Method Distill/CN	Matrix Wastewater	Analyte Cyanide, Total			

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Method Summary

Client: New York State D.E.C. Job ID: 480-167889-1

Project/Site: Gastown WWTP #915171

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
608.3	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
420.1	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
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF
Distill/Phenol	Distillation, Phenolics	None	TAL BUF

Protocol References:

1664B = 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.

None = None

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

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-167889-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-167889-1	Post-Carbon 2	Wastewater	03/27/20 08:50	03/27/20 09:35	
480-167889-2	Pre-Carbon	Wastewater	03/27/20 09:00	03/27/20 09:35	

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



Phone (716) 691-2600 Fax (716) 691-7991																				THE LEADER IN ENVI	RONMENTAL TESTING
Client Information	Sampler: WW				nson,	, Orle	ette S						Carrie	r Trac	king N	lo(s):			L	COC No: 480-123669-28089	9.1
Client Contact: Thomas Palmer	Phone: 800	287 -	7857	E-Ma orle		hnso	on@te	estam	ericai	nc.co	m									Page:	
Company: Groundwater & Environmental Services Inc					T				Δ	nal	ysis	Ren	IIAS	tı	11	1111111	1111				
Address:	Due Date Requeste	d:					T	T	T	T	1	I I	ucs	<u></u>	11	WW	W				
415 Lawrence Bell Drive Suite 6 City:	TAT Requested (da	um):			-11					1	1				1	WW					
Williamsville					И			1		1	1				1		679	11111	Chai	in of Custody	
State, Zip: NY, 14221	577														_	480-1	610	000	Oriu		⊶ - Na2SO3 R - Na2S2O3
Phone: 518-402-9662(Tel)	PO#: CallOut ID 1360	76						9	g l	9		8								G - Amchlor	S - H2SO4
Email:	WO #:				12	-	Total Recoverable	if (Stars)	and a	Demand		Solids					- 1			I - Ice	T - TSP Dodecahydrate U - Acetone
tpalmer@gesonline.com Project Name:	GES Project # 0 Project #:	901691			es o	S S	cove	(a)		en De	Solids	lved							ners	K - EDTA	V - MCAA W - pH 4-5
Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	48002525				S	98	al Re	(Stars)	SVOA	Dxyg	ded S	isso			0	S04		=	containe		Z - other (specify)
Site: New York	SSOW#:				Samp					nical (nedsr	otal	Total	_	Greas)D (Q(K, Na	, Tota	of co	Other:	
Sample Identification	Sample Date	Sample Time		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Ai	Field Filtered	Perfor	420.4 - Phenol	8260C - TCL +	8270C - (MOD) TCL			2540C_Calcd - Total Dissolved	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD) CI,	200.7 - Ca, Mg, I	310.2 - Alkalinity, Total	Total Number	Special Ins	tructions/Note:
		>		tion Code:	X		S	N	N	N	N	N	В	N	S	N	D	N	X		
Post-Carbon 2	3/27/20	0750	C	Water	M	W	X	X :	x x	X	X	X	X	Х	Х						
Pre-Carbon	3/27/2	0900	G	Water	n	n		X								X	X	Х			
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Possible Hazard Identification	rz4					San					e may	be a	sse	ssed	if sa	mple	s a			ed longer than 1	
Non-Hazard Flammable Skin Irritant Po	ison B 💆 Unk	nown	Radiologica	1	-	Sne			To Cli		Requi	reme	Disp nts:	osal E	By La	ab	_	_	Arcl	hive For	Months
		In.			1=:		- Clair I	1130100	0110113	40	toqui	-	1110.	Math	ad of	Shipm	ont	-			
Empty Kit Relinquished by: Relinquished by:	1	Date:		Company	Tir		Recei	ved by:						Metr	100 01	Date			_		Company
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Relinquished by:	Date/Tinle:	29	35	Company	25	(Ce	Recei	yed by:	in	1/	les	L				Date	Jime	12-	7/	20035	Company TAB
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Custody Seals Intact: Custody Seal No.: Δ Yes Δ No							Coole	r Temp	perature	e(s) °C	and O	ther R	emarl	(S:	,	#	= (2	5.3	

Client: New York State D.E.C.

Job Number: 480-167889-1

Login Number: 167889 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

orcator. Wallaco, Galiloron		
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 (Excluding tests with immediate HTs)	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	

Eurofins TestAmerica, Buffalo



ANALYTICAL REPORT

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

Laboratory Job ID: 480-168908-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Authorized for release by: 4/29/2020 8:00:56 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

·····LINKS ······

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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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

Orlette Johnson

Senior Project Manager 4/29/2020 8:00:56 AM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-168908-1

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Definitions/Glossary

Client: New York State D.E.C.

Job ID: 480-168908-1 Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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**

Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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 CFL Contains Free Liquid CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) **TEF** Toxicity Equivalent Quotient (Dioxin) **TEQ**

Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-168908-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-168908-1

Receipt

The samples were received on 4/22/2020 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-527632 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: Post-Carbon 2 (480-168908-1) and Pre-Carbon (480-168908-2).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-168908-2) and OUTSIDE SUMP (480-168908-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-168908-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-168908-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-168908-1

Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 04/22/20 09:10 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-1

Matrix: Wastewater

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			04/23/20 16:45	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/23/20 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/23/20 16:45	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/23/20 16:45	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/23/20 16:45	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/23/20 16:45	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/23/20 16:45	1
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			04/23/20 16:45	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/23/20 16:45	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/23/20 16:45	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/23/20 16:45	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			04/23/20 16:45	1
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			04/23/20 16:45	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/23/20 16:45	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			04/23/20 16:45	1
2-Butanone (MEK)	ND	10	1.3	ug/L			04/23/20 16:45	1
2-Hexanone	ND	5.0	1.2	ug/L			04/23/20 16:45	1
4-Isopropyltoluene	ND	1.0	0.31	ug/L			04/23/20 16:45	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			04/23/20 16:45	1
Acetone	3.2 J	10	3.0	ug/L			04/23/20 16:45	1
Benzene	ND	1.0	0.41	ug/L			04/23/20 16:45	1
Bromoform	ND	1.0	0.26	ug/L			04/23/20 16:45	1
Bromomethane	ND	1.0	0.69	-			04/23/20 16:45	1
Carbon disulfide	ND	1.0	0.19	ug/L			04/23/20 16:45	1
Carbon tetrachloride	ND	1.0		ug/L			04/23/20 16:45	1
Chlorobenzene	ND	1.0	0.75	ug/L			04/23/20 16:45	1
Dibromochloromethane	ND	1.0		ug/L			04/23/20 16:45	1
Chloroethane	ND	1.0		ug/L			04/23/20 16:45	1
Chloroform	0.79 J	1.0		ug/L			04/23/20 16:45	1
Chloromethane	ND	1.0	0.35	-			04/23/20 16:45	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			04/23/20 16:45	1
Cyclohexane	ND	1.0	0.18	-			04/23/20 16:45	1
Bromodichloromethane	ND	1.0	0.39	_			04/23/20 16:45	1
Dichlorodifluoromethane	ND	1.0	0.68	-			04/23/20 16:45	1
Ethylbenzene	ND	1.0	0.74	-			04/23/20 16:45	1
1,2-Dibromoethane	ND	1.0		ug/L			04/23/20 16:45	1
Isopropylbenzene	ND	1.0		ug/L			04/23/20 16:45	1
Methyl acetate	ND	2.5		ug/L			04/23/20 16:45	1
Methyl tert-butyl ether	ND	1.0		ug/L			04/23/20 16:45	1
Methylcyclohexane	ND	1.0		ug/L			04/23/20 16:45	1
Methylene Chloride	ND	1.0		ug/L			04/23/20 16:45	1
m,p-Xylene	ND	2.0		ug/L			04/23/20 16:45	1
Naphthalene	ND	1.0		ug/L			04/23/20 16:45	1
n-Butylbenzene	ND	1.0		ug/L			04/23/20 16:45	1
N-Propylbenzene	ND	1.0		ug/L			04/23/20 16:45	1
o-Xylene	ND	1.0		ug/L			04/23/20 16:45	
sec-Butylbenzene	ND	1.0		ug/L			04/23/20 16:45	1
Tetrachloroethene	ND	1.0		ug/L			04/23/20 16:45	1
Toluene	ND	1.0		ug/L			04/23/20 16:45	

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4/29/2020

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Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 04/22/20 09:10 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-1

Matrix: Wastewater

Method: 8260C - Volatile Or	•	•	•	•	11!4	_	D	A a b a d	Dil Faa
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/23/20 16:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/23/20 16:45	1
Trichloroethene	ND		1.0	0.46	ug/L			04/23/20 16:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/23/20 16:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/23/20 16:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/23/20 16:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/23/20 16:45	1
Styrene	ND		1.0	0.73	ug/L			04/23/20 16:45	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/23/20 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					04/23/20 16:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/23/20 16:45	1
Toluene-d8 (Surr)	100		80 - 120					04/23/20 16:45	1
Dibromofluoromethane (Surr)	102		75 - 123					04/23/20 16:45	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10		0.010	0.0050	mg/L		04/27/20 09:20	04/27/20 12:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4	HF	0.1	0.1	SU			04/23/20 16:00	1
Temperature	17.6	HF	0.001	0.001	Degrees C			04/23/20 16:00	1

Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 04/22/20 09:15 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-2

Matrix: Wastewater

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND	5.0	4.1	ug/L			04/23/20 17:08	
1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/L			04/23/20 17:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	1.6	ug/L			04/23/20 17:08	
1,1,2-Trichloroethane	ND	5.0	1.2	ug/L			04/23/20 17:08	
1,1-Dichloroethane	ND	5.0	1.9	ug/L			04/23/20 17:08	
I,1-Dichloroethene	ND	5.0	1.5	ug/L			04/23/20 17:08	
1,2,4-Trichlorobenzene	ND	5.0	2.1	ug/L			04/23/20 17:08	
I,2,4-Trimethylbenzene	11	5.0	3.8	ug/L			04/23/20 17:08	
,2-Dibromo-3-Chloropropane	ND	5.0	2.0	ug/L			04/23/20 17:08	
,2-Dichlorobenzene	ND	5.0	4.0	ug/L			04/23/20 17:08	
,2-Dichloroethane	ND	5.0	1.1	ug/L			04/23/20 17:08	
,2-Dichloropropane	ND	5.0	3.6	ug/L			04/23/20 17:08	
1,3,5-Trimethylbenzene	ND	5.0		ug/L			04/23/20 17:08	
l,3-Dichlorobenzene	ND	5.0		ug/L			04/23/20 17:08	
,4-Dichlorobenzene	ND	5.0		ug/L			04/23/20 17:08	
P-Butanone (MEK)	ND	50		ug/L			04/23/20 17:08	
-Hexanone	ND	25		ug/L			04/23/20 17:08	
-Isopropyltoluene	ND	5.0		ug/L			04/23/20 17:08	
-Methyl-2-pentanone (MIBK)	ND	25		ug/L			04/23/20 17:08	
cetone	ND	50		ug/L			04/23/20 17:08	
romoform	ND	5.0		ug/L			04/23/20 17:08	
romomethane	ND	5.0		ug/L			04/23/20 17:08	
arbon disulfide	ND	5.0	0.95	-			04/23/20 17:08	
carbon tetrachloride	ND	5.0		ug/L			04/23/20 17:08	
Chlorobenzene	ND	5.0		ug/L			04/23/20 17:08	
Dibromochloromethane	ND	5.0		ug/L			04/23/20 17:08	
chloroethane	ND	5.0		ug/L			04/23/20 17:08	
Chloroform	ND	5.0		ug/L			04/23/20 17:08	
Chloromethane	ND	5.0		ug/L			04/23/20 17:08	
is-1,2-Dichloroethene	4.4 J	5.0		ug/L			04/23/20 17:08	
Cyclohexane	ND	5.0		ug/L			04/23/20 17:08	
romodichloromethane	ND ND	5.0		ug/L ug/L			04/23/20 17:08	
vichlorodifluoromethane				•			04/23/20 17:08	
	ND	5.0		ug/L				
thylbenzene	74 ND	5.0		ug/L			04/23/20 17:08	
,2-Dibromoethane		5.0		ug/L			04/23/20 17:08	
opropylbenzene	ND ND	5.0		ug/L			04/23/20 17:08	
lethyl acetate	ND	13		ug/L			04/23/20 17:08	
lethyl tert-butyl ether	ND	5.0		ug/L			04/23/20 17:08	
lethylcyclohexane	ND	5.0		ug/L			04/23/20 17:08	
lethylene Chloride	ND	5.0		ug/L			04/23/20 17:08	
n,p-Xylene	94	10		ug/L			04/23/20 17:08	
aphthalene	130	5.0		ug/L			04/23/20 17:08	
-Butylbenzene	ND	5.0		ug/L			04/23/20 17:08	
l-Propylbenzene	ND	5.0		ug/L			04/23/20 17:08	
-Xylene	59	5.0		ug/L			04/23/20 17:08	
ec-Butylbenzene	ND	5.0		ug/L			04/23/20 17:08	
etrachloroethene	ND	5.0		ug/L			04/23/20 17:08	
oluene	420	5.0		ug/L			04/23/20 17:08	
rans-1,2-Dichloroethene	ND	5.0	4.5	ug/L			04/23/20 17:08	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 04/22/20 09:15 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-2

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			04/23/20 17:08	5
Trichloroethene	ND		5.0	2.3	ug/L			04/23/20 17:08	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			04/23/20 17:08	5
Vinyl chloride	ND		5.0	4.5	ug/L			04/23/20 17:08	5
Xylenes, Total	150		10	3.3	ug/L			04/23/20 17:08	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			04/23/20 17:08	5
Styrene	21		5.0	3.7	ug/L			04/23/20 17:08	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			04/23/20 17:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120			-		04/23/20 17:08	5
4-Bromofluorobenzene (Surr)	101		73 - 120					04/23/20 17:08	5
Toluene-d8 (Surr)	100		80 - 120					04/23/20 17:08	5
Dibromofluoromethane (Surr)	103		75 - 123					04/23/20 17:08	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2600		80	33	ug/L			04/24/20 12:00	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120			,		04/24/20 12:00	80
4-Bromofluorobenzene (Surr)	100		73 - 120					04/24/20 12:00	80
Toluene-d8 (Surr)	100		80 - 120					04/24/20 12:00	80
Dibromofluoromethane (Surr)	101		75 - 123					04/24/20 12:00	80

Method: 200.7 Rev 4.4	l - Metals (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	134000	500	100	ug/L		04/23/20 10:32	04/23/20 21:11	1
Magnesium	43400	200	43.4	ug/L		04/23/20 10:32	04/23/20 21:11	1
Potassium	3790	500	100	ug/L		04/23/20 10:32	04/23/20 21:11	1
Sodium	90800	1000	324	ug/L		04/23/20 10:32	04/23/20 21:11	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Chloride	162		2.5	1.4	mg/L			04/27/20 19:30	5
Sulfate	126		10.0	1.7	mg/L			04/27/20 19:30	5
Alkalinity, Total	366		40.0	16.0	mg/L			04/24/20 00:01	4

Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Date Collected: 04/22/20 09:20 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-3

Matrix: Water

Analyte	nic Compou Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		100	82	ug/L			04/24/20 12:24	10
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			04/24/20 12:24	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			04/24/20 12:24	10
1,1,2-Trichloroethane	ND		100		ug/L			04/24/20 12:24	10
1,1-Dichloroethane	ND		100		ug/L			04/24/20 12:24	10
1,1-Dichloroethene	ND		100		ug/L			04/24/20 12:24	10
1,2,4-Trichlorobenzene	ND		100		ug/L			04/24/20 12:24	10
1,2,4-Trimethylbenzene	ND		100		ug/L			04/24/20 12:24	10
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/24/20 12:24	10
1,2-Dichlorobenzene	ND		100		ug/L			04/24/20 12:24	10
1,2-Dichloroethane	ND		100		ug/L			04/24/20 12:24	10
1,2-Dichloropropane	ND		100		ug/L			04/24/20 12:24	10
1,3,5-Trimethylbenzene	ND		100		ug/L			04/24/20 12:24	10
1,3-Dichlorobenzene	ND		100		ug/L			04/24/20 12:24	10
1,4-Dichlorobenzene	ND		100		ug/L			04/24/20 12:24	10
2-Butanone (MEK)	ND		1000	130	ug/L			04/24/20 12:24	10
2-Hexanone	ND		500	120	ug/L			04/24/20 12:24	10
4-Isopropyltoluene	ND		100		ug/L			04/24/20 12:24	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			04/24/20 12:24	10
Acetone	ND		1000		ug/L			04/24/20 12:24	10
Benzene	4500		100		ug/L			04/24/20 12:24	10
Bromoform	ND		100		ug/L			04/24/20 12:24	10
Bromomethane	ND		100		ug/L			04/24/20 12:24	10
Carbon disulfide	ND		100		ug/L			04/24/20 12:24	10
Carbon tetrachloride	ND		100		ug/L			04/24/20 12:24	10
Chlorobenzene	ND		100		ug/L			04/24/20 12:24	10
Dibromochloromethane	ND		100		ug/L			04/24/20 12:24	10
Chloroethane	ND		100		ug/L			04/24/20 12:24	10
Chloroform	ND		100		ug/L			04/24/20 12:24	10
Chloromethane	ND		100		ug/L			04/24/20 12:24	10
cis-1,2-Dichloroethene	ND		100		ug/L			04/24/20 12:24	10
Cyclohexane	ND		100		ug/L			04/24/20 12:24	10
Bromodichloromethane	ND		100		ug/L			04/24/20 12:24	10
Dichlorodifluoromethane	ND		100		ug/L			04/24/20 12:24	10
Ethylbenzene	250		100		ug/L			04/24/20 12:24	10
1,2-Dibromoethane	ND		100		ug/L ug/L			04/24/20 12:24	10
Isopropylbenzene	ND		100		ug/L			04/24/20 12:24	10
Methyl acetate	ND		250		ug/L			04/24/20 12:24	10
Methyl tert-butyl ether	ND ND		100		-			04/24/20 12:24	10
Methylcyclohexane	ND		100		ug/L				10
• •	ND		100		ug/L			04/24/20 12:24 04/24/20 12:24	10
Methylene Chloride			200		ug/L			04/24/20 12:24	10
m,p-Xylene	130	J			ug/L				
Naphthalene	640		100		ug/L			04/24/20 12:24	10
n-Butylbenzene	ND		100		ug/L			04/24/20 12:24	10
N-Propylbenzene	ND		100		ug/L			04/24/20 12:24	10
o-Xylene	ND		100		ug/L			04/24/20 12:24	10
sec-Butylbenzene	ND		100		ug/L			04/24/20 12:24	10
Tetrachloroethene Toluene	ND 710		100 100		ug/L ug/L			04/24/20 12:24 04/24/20 12:24	10

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-168908-3 Date Collected: 04/22/20 09:20

100

Matrix: Water

04/24/20 12:24

Date Received: 04/22/20 09:30

Dibromofluoromethane (Surr)

Method: 8260C - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			04/24/20 12:24	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			04/24/20 12:24	100
Trichloroethene	ND		100	46	ug/L			04/24/20 12:24	100
Trichlorofluoromethane	ND		100	88	ug/L			04/24/20 12:24	100
Vinyl chloride	ND		100	90	ug/L			04/24/20 12:24	100
Xylenes, Total	130	J	200	66	ug/L			04/24/20 12:24	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			04/24/20 12:24	100
Styrene	83	J	100	73	ug/L			04/24/20 12:24	100
tert-Butylbenzene	ND		100	81	ug/L			04/24/20 12:24	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					04/24/20 12:24	100
4-Bromofluorobenzene (Surr)	98		73 - 120					04/24/20 12:24	100
Toluene-d8 (Surr)	100		80 - 120					04/24/20 12:24	100

75 - 123

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 04/22/20 09:10 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	527632	04/23/20 16:45	CRL	TAL BUF
Total/NA	Prep	Distill/CN			528223	04/27/20 09:20	JRF	TAL BUF
Total/NA	Analysis	335.4		1	528264	04/27/20 12:34	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	527718	04/23/20 16:00	BEF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 04/22/20 09:15 Date Received: 04/22/20 09:30 Lab Sample ID: 480-168908-2

Matrix: Wastewater

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dilution Factor 5	Batch Number 527632	Prepared or Analyzed 04/23/20 17:08	Analyst CRL	Lab TAL BUF
Total/NA	Analysis	8260C	DL	80	527838	04/24/20 12:00	CRL	TAL BUF
Total/NA	Prep	200.7			527597	04/23/20 10:32	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	527832	04/23/20 21:11	LMH	TAL BUF
Total/NA	Analysis	300.0		5	528321	04/27/20 19:30	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	527786	04/24/20 00:01	SRW	TAL BUF

Client Sample ID: OUTSIDE SUMP

Date Collected: 04/22/20 09:20

Date Received: 04/22/20 09:30

Lab Sample	ID:	480-168908-3
		Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	527838	04/24/20 12:24	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-168908-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority New York		rogram IELAP	Identification Number	Expiration Date 04-02-21
new fork	IN	IELAP	10026	04-02-21
The following analytes the agency does not do		oort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
335.4	Distill/CN	Wastewater	Cyanide, Total	
SM 4500 H+ B		Wastewater	рН	
SM 4500 H+ B		Wastewater	Temperature	

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

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

Protocol References:

5030C

Distill/CN

EPA = US Environmental Protection Agency

Purge and Trap

Distillation, Cyanide

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

None = None

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

Job ID: 480-168908-1

TAL BUF

TAL BUF

SW846

None

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Eurofins TestAmerica, Buffalo

Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-168908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset I
480-168908-1	Post-Carbon 2	Wastewater	04/22/20 09:10	04/22/20 09:30	
480-168908-2	Pre-Carbon	Wastewater	04/22/20 09:15	04/22/20 09:30	
480-168908-3	OUTSIDE SUMP	Water	04/22/20 09:20	04/22/20 09:30	

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10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record

<u>TestAmerica</u>

Phone (716) 691-2600 Fax (716) 691-7991 Carrier Tracking No(s) **Client Information** Johnson, Orlette S 480-123660-28090.1 Client Contact: Thomas Palmer 800 287 7857 orlette.johnson@testamericainc.com Page 1 of 1 Groundwater & Environmental Services Inc **Analysis Requested** Due Date Requested: 415 Lawrence Bell Drive Suite 6 M - Hexane TAT Requested (days): N - None Williamsville O - AsNaO2 MD State, Zip: P - Na2O4S Q - Na2SO3 NY, 14221 R - Na2S2O3 Phone: S - H2SO4 CallOut ID 136076 518-402-9662(Tel) T - TSP Dodecahydrate WO #: U - Acetone V - MCAA tpalmer@gesonline.com GES Project # 0901691 W - pH 4-5 Project Name Project #: Total Number of contai Z - other (specify) Gastown WWTP #915171 - Monthly Event Desc: Monthly 48002525 SSOW#: 200.7 - Ca, Mg, K, Na 8260C - TCL + CP-51 300.0_28D - CI, SO4 New York Matrix Sample (W=water, Type Sample (C=comp, Sample Identification Sample Date G=grab) BT=Tissue, A=Air Time Special Instructions/Note: Preservation Code: D 0910 Post-Carbon 2 4/22 G X Water X 2190 G X Pre-Carbon X X X Water Otside Sump 0920 unter Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For ______ Mont Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Archive For Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Empty Kit Relinquished by: Time: Relinquished by Received by: Relinguished by Received by: Date/Time Received by: Custody Seal No.: Custody Seals Intact: Cooler Temperature(s) °C and Other Remarks: Δ Yes Δ No

Ver: 01/16/2019

Page

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Client: New York State D.E.C.

Job Number: 480-168908-1

Login Number: 168908 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

orontor. Gtopa, Erik o		
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 (Excluding tests with immediate HTs)	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	

Eurofins TestAmerica, Buffalo

ANALYTICAL REPORT

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

Laboratory Job ID: 480-170188-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Quarterly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Joseph V. Gracomogyer

Authorized for release by: 5/29/2020 3:20:51 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

..... LINKS

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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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.

Joe Giacomazza

Project Management Assistant II

5/29/2020 3:20:51 PM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-170188-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

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 Semi VOA

Qualifier Qualifier Description

LCS or LCSD is outside acceptance limits.

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

The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

General Chemistry

Qualifier Qualifier Description

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Eurofins TestAmerica, Buffalo

Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-170188-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-170188-1

Comments

No additional comments.

Receipt

The samples were received on 5/20/2020 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-170188-2), Outside Sump (480-170188-3), (480-170188-A-3 MS) and (480-170188-A-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-170188-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (480-170188-D-1-A MS) and (480-170188-D-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-170188-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 608.3: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-533319 and analytical batch 480-533479 recovered outside control limits for the following analytes: Endosulfan sulfate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-170188-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-533319.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-170188-1

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Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 05/20/20 13:45 Date Received: 05/20/20 14:25 Lab Sample ID: 480-170188-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil I
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			05/22/20 13:14	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			05/22/20 13:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			05/22/20 13:14	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			05/22/20 13:14	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			05/22/20 13:14	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			05/22/20 13:14	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			05/22/20 13:14	
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			05/22/20 13:14	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			05/22/20 13:14	
I,2-Dichlorobenzene	ND	1.0	0.79	ug/L			05/22/20 13:14	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			05/22/20 13:14	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			05/22/20 13:14	
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			05/22/20 13:14	
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			05/22/20 13:14	
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			05/22/20 13:14	
2-Butanone (MEK)	ND	10	1.3	ug/L			05/22/20 13:14	
2-Hexanone	ND	5.0	1.2	ug/L			05/22/20 13:14	
I-Isopropyltoluene	ND	1.0		ug/L			05/22/20 13:14	
I-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			05/22/20 13:14	
Acetone	ND	10		ug/L			05/22/20 13:14	
Benzene	ND	1.0		ug/L			05/22/20 13:14	
Bromoform	ND	1.0		ug/L			05/22/20 13:14	
Bromomethane	ND	1.0		ug/L			05/22/20 13:14	
Carbon disulfide	ND	1.0		ug/L			05/22/20 13:14	
Carbon tetrachloride	ND	1.0		ug/L			05/22/20 13:14	
Chlorobenzene	ND	1.0		ug/L			05/22/20 13:14	
Dibromochloromethane	ND	1.0		ug/L			05/22/20 13:14	
Chloroethane	ND	1.0		ug/L			05/22/20 13:14	
Chloroform	ND	1.0		ug/L			05/22/20 13:14	
Chloromethane	ND	1.0		ug/L			05/22/20 13:14	
sis-1,2-Dichloroethene	ND	1.0		ug/L			05/22/20 13:14	
Cyclohexane	ND	1.0		ug/L			05/22/20 13:14	
Bromodichloromethane	ND	1.0		ug/L			05/22/20 13:14	
Dichlorodifluoromethane	ND	1.0		ug/L			05/22/20 13:14	
Ethylbenzene	ND	1.0		ug/L			05/22/20 13:14	
,2-Dibromoethane	ND	1.0		ug/L			05/22/20 13:14	
sopropylbenzene	ND	1.0		ug/L			05/22/20 13:14	
Methyl acetate	ND	2.5		ug/L			05/22/20 13:14	
Methyl tert-butyl ether	ND	1.0		ug/L			05/22/20 13:14	
Methylcyclohexane	ND	1.0		ug/L			05/22/20 13:14	
Methylene Chloride	ND	1.0		ug/L			05/22/20 13:14	
n,p-Xylene	ND	2.0		ug/L			05/22/20 13:14	
laphthalene	ND ND	1.0		ug/L ug/L			05/22/20 13:14	
	ND ND	1.0		ug/L ug/L			05/22/20 13:14	
-Butylbenzene	ND ND			-				
I-Propylbenzene		1.0		ug/L			05/22/20 13:14	
p-Xylene	ND ND	1.0		ug/L			05/22/20 13:14	
sec-Butylbenzene	ND	1.0		ug/L			05/22/20 13:14	
Fetrachloroethene Foluene	ND ND	1.0		ug/L ug/L			05/22/20 13:14 05/22/20 13:14	

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #9151

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 05/20/20 13:45 Date Received: 05/20/20 14:25

Dibromofluoromethane (Surr)

Phenol-d5

2-Fluorophenol

2,4,6-Tribromophenol

Lab Sample ID: 480-170188-1

05/22/20 13:14

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/22/20 13:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/22/20 13:14	1
Trichloroethene	ND		1.0	0.46	ug/L			05/22/20 13:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/22/20 13:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/22/20 13:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/22/20 13:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/22/20 13:14	1
Styrene	ND		1.0	0.73	ug/L			05/22/20 13:14	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			05/22/20 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120			-		05/22/20 13:14	1
4-Bromofluorobenzene (Surr)	98		73 - 120					05/22/20 13:14	1
Toluene-d8 (Surr)	97		80 - 120					05/22/20 13:14	1

75 - 123

108

53

73

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/26/20 07:16	05/27/20 05:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/26/20 07:16	05/27/20 05:58	1
Acenaphthene	ND		5.0	0.41	ug/L		05/26/20 07:16	05/27/20 05:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/26/20 07:16	05/27/20 05:58	1
Anthracene	ND		5.0	0.28	ug/L		05/26/20 07:16	05/27/20 05:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/26/20 07:16	05/27/20 05:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/26/20 07:16	05/27/20 05:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/26/20 07:16	05/27/20 05:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/26/20 07:16	05/27/20 05:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/26/20 07:16	05/27/20 05:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/26/20 07:16	05/27/20 05:58	1
Carbazole	ND		5.0	0.30	ug/L		05/26/20 07:16	05/27/20 05:58	1
Chrysene	ND		5.0	0.33	ug/L		05/26/20 07:16	05/27/20 05:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/26/20 07:16	05/27/20 05:58	1
Dibenzofuran	ND		10	0.51	ug/L		05/26/20 07:16	05/27/20 05:58	1
Fluoranthene	0.42	JB	5.0	0.40	ug/L		05/26/20 07:16	05/27/20 05:58	1
Fluorene	ND		5.0	0.36	ug/L		05/26/20 07:16	05/27/20 05:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/26/20 07:16	05/27/20 05:58	1
Naphthalene	ND		5.0	0.76	ug/L		05/26/20 07:16	05/27/20 05:58	1
Pentachlorophenol	ND		10	2.2	ug/L		05/26/20 07:16	05/27/20 05:58	1
Phenanthrene	1.6	JB	5.0	0.44	ug/L		05/26/20 07:16	05/27/20 05:58	1
Phenol	ND		5.0	0.39	ug/L		05/26/20 07:16	05/27/20 05:58	1
Pyrene	ND		5.0	0.34	ug/L		05/26/20 07:16	05/27/20 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120				05/26/20 07:16	05/27/20 05:58	1
2-Fluorobiphenyl	111		48 - 120				05/26/20 07:16	05/27/20 05:58	1
p-Terphenyl-d14	112		60 - 148				05/26/20 07:16	05/27/20 05:58	1

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05/27/20 05:58

05/27/20 05:58

05/27/20 05:58

05/26/20 07:16

05/26/20 07:16

05/26/20 07:16

22 - 120

35 - 120

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Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 05/20/20 13:45 Date Received: 05/20/20 14:25 Lab Sample ID: 480-170188-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0077	ug/L		05/26/20 08:52	05/27/20 10:47	1
alpha-BHC	ND		0.048	0.0073	ug/L		05/26/20 08:52	05/27/20 10:47	1
beta-BHC	ND		0.048	0.024	ug/L		05/26/20 08:52	05/27/20 10:47	1
delta-BHC	0.020	Jр	0.048	0.0095	ug/L		05/26/20 08:52	05/27/20 10:47	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		05/26/20 08:52	05/27/20 10:47	1
Chlordane (technical)	ND		0.48	0.28	ug/L		05/26/20 08:52	05/27/20 10:47	1
4,4'-DDD	ND		0.048	0.0088	ug/L		05/26/20 08:52	05/27/20 10:47	1
4,4'-DDE	ND		0.048	0.011	ug/L		05/26/20 08:52	05/27/20 10:47	1
4,4'-DDT	ND		0.048	0.010	ug/L		05/26/20 08:52	05/27/20 10:47	1
Dieldrin	ND		0.048	0.0093	ug/L		05/26/20 08:52	05/27/20 10:47	1
Endosulfan I	ND		0.048	0.010	ug/L		05/26/20 08:52	05/27/20 10:47	1
Endosulfan II	ND		0.048	0.011	ug/L		05/26/20 08:52	05/27/20 10:47	1
Endosulfan sulfate	ND	*	0.048	0.015	ug/L		05/26/20 08:52	05/27/20 10:47	1
Endrin	ND		0.048	0.013	ug/L		05/26/20 08:52	05/27/20 10:47	1
Endrin aldehyde	ND		0.048	0.016	ug/L		05/26/20 08:52	05/27/20 10:47	1
Heptachlor	ND		0.048	0.0081	ug/L		05/26/20 08:52	05/27/20 10:47	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		05/26/20 08:52	05/27/20 10:47	1
Toxaphene	ND		0.48	0.11	ug/L		05/26/20 08:52	05/27/20 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		23 - 120				05/26/20 08:52	05/27/20 10:47	1
Tetrachloro-m-xylene	100		44 - 120				05/26/20 08:52	05/27/20 10:47	1
General Chemistry									
Analyte	Posult	Qualifier	DI	MDI	Unit	n	Droparod	Analyzod	Dil Eac

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.4	J	4.9	1.4	mg/L		05/26/20 14:36	05/26/20 21:11	1
Cyanide, Total	0.69		0.020	0.010	mg/L		05/22/20 21:28	05/23/20 11:48	2
Phenolics, Total Recoverable	0.0068	J	0.010	0.0035	mg/L			05/29/20 12:22	1
Total Dissolved Solids	870		10.0	4.0	mg/L			05/21/20 19:05	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			05/21/20 01:39	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			05/21/20 17:15	1
pH	7.4	HF	0.1	0.1	SU			05/21/20 13:23	1
Temperature	20.2	HF	0.001	0.001	Degrees C			05/21/20 13:23	1

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Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 05/20/20 14:00 Date Received: 05/20/20 14:25 Lab Sample ID: 480-170188-2

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND —	25	21	ug/L			05/22/20 13:37	
1,1,2,2-Tetrachloroethane	ND	25	5.3	ug/L			05/22/20 13:37	:
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25	7.8	ug/L			05/22/20 13:37	:
1,1,2-Trichloroethane	ND	25	5.8	ug/L			05/22/20 13:37	
1,1-Dichloroethane	ND	25	9.5	ug/L			05/22/20 13:37	
1,1-Dichloroethene	ND	25	7.3	ug/L			05/22/20 13:37	:
1,2,4-Trichlorobenzene	ND	25	10	ug/L			05/22/20 13:37	:
1,2,4-Trimethylbenzene	ND	25	19	ug/L			05/22/20 13:37	:
1,2-Dibromo-3-Chloropropane	ND	25	9.8	ug/L			05/22/20 13:37	:
1,2-Dibromoethane	ND	25	18	ug/L			05/22/20 13:37	:
1,2-Dichlorobenzene	ND	25	20	ug/L			05/22/20 13:37	
1,2-Dichloroethane	ND	25	5.3	ug/L			05/22/20 13:37	:
1,2-Dichloropropane	ND	25	18	ug/L			05/22/20 13:37	
1,3,5-Trimethylbenzene	ND	25	19	ug/L			05/22/20 13:37	:
1,3-Dichlorobenzene	ND	25	20	ug/L			05/22/20 13:37	
1,4-Dichlorobenzene	ND	25	21	ug/L			05/22/20 13:37	
2-Butanone (MEK)	ND	250		ug/L			05/22/20 13:37	
2-Hexanone	ND	130		ug/L			05/22/20 13:37	
4-Isopropyltoluene	ND	25		ug/L			05/22/20 13:37	
4-Methyl-2-pentanone (MIBK)	ND	130		ug/L			05/22/20 13:37	
Acetone	ND	250		ug/L			05/22/20 13:37	
Bromodichloromethane	ND	25		ug/L			05/22/20 13:37	
Bromoform	ND	25		ug/L			05/22/20 13:37	
Bromomethane	ND	25		ug/L			05/22/20 13:37	
Carbon disulfide	ND	25		ug/L			05/22/20 13:37	
Carbon tetrachloride	ND	25		ug/L			05/22/20 13:37	
Chlorobenzene	ND	25		ug/L			05/22/20 13:37	
Chloroethane	ND	25		ug/L			05/22/20 13:37	
Chloroform	17 J	25		ug/L			05/22/20 13:37	
Chloromethane	ND	25		ug/L			05/22/20 13:37	
cis-1,2-Dichloroethene	ND	25		ug/L			05/22/20 13:37	
cis-1,3-Dichloropropene	ND	25		ug/L			05/22/20 13:37	
Cyclohexane	ND	25		ug/L			05/22/20 13:37	
Dibromochloromethane	ND	25		ug/L			05/22/20 13:37	
Dichlorodifluoromethane	ND	25		ug/L			05/22/20 13:37	
		25		-			05/22/20 13:37	
Ethylbenzene	200 ND			ug/L			05/22/20 13:37	
sopropylbenzene		25		ug/L ug/L				
m,p-Xylene	90	50		•			05/22/20 13:37	
Methyl acetate	ND	63		ug/L			05/22/20 13:37	
Methyl tert-butyl ether	ND	25		ug/L			05/22/20 13:37	
Methylcyclohexane	ND	25		ug/L			05/22/20 13:37	
Methylene Chloride	ND	25		ug/L			05/22/20 13:37	
Naphthalene	310 ND	25		ug/L			05/22/20 13:37	
n-Butylbenzene	ND	25		ug/L			05/22/20 13:37	
N-Propylbenzene	ND	25		ug/L			05/22/20 13:37	
o-Xylene	61	25		ug/L			05/22/20 13:37	
sec-Butylbenzene	ND	25		ug/L			05/22/20 13:37	
Styrene	ND	25	18	ug/L			05/22/20 13:37	:

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Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-170188-2 Date Collected: 05/20/20 14:00

Matrix: Wastewater

Date Received: 05/20/20 14:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		25	9.0	ug/L			05/22/20 13:37	25
Toluene	490		25	13	ug/L			05/22/20 13:37	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			05/22/20 13:37	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			05/22/20 13:37	25
Trichloroethene	ND		25	12	ug/L			05/22/20 13:37	25
Trichlorofluoromethane	ND		25	22	ug/L			05/22/20 13:37	25
Vinyl chloride	ND		25	23	ug/L			05/22/20 13:37	25
Xylenes, Total	150		50	17	ug/L			05/22/20 13:37	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120			-		05/22/20 13:37	25
4-Bromofluorobenzene (Surr)	99		73 - 120					05/22/20 13:37	25
Toluene-d8 (Surr)	97		80 - 120					05/22/20 13:37	25
Dibromofluoromethane (Surr)	98		75 - 123					05/22/20 13:37	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2800		50	21	ug/L			05/23/20 18:08	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			-		05/23/20 18:08	50
4-Bromofluorobenzene (Surr)	96		73 - 120					05/23/20 18:08	50
Toluene-d8 (Surr)	99		80 - 120					05/23/20 18:08	50
Dibromofluoromethane (Surr)	105		75 - 123					05/23/20 18:08	50

Method: 200.7 Rev 4.4 - N	Metals (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	132000	500	100	ug/L		05/21/20 10:12	05/21/20 17:07	1
Magnesium	45100	200	43.4	ug/L		05/21/20 10:12	05/21/20 17:07	1
Potassium	4080	500	100	ug/L		05/21/20 10:12	05/21/20 17:07	1
Sodium	95800	1000	324	ug/L		05/21/20 10:12	05/21/20 17:07	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		2.5	1.4	mg/L			05/26/20 19:10	5
Sulfate	115		10.0	1.7	mg/L			05/26/20 19:10	5
Alkalinity, Total	499		50.0	20.0	mg/L			05/20/20 18:27	5

5/29/2020

Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Received: 05/20/20 14:25

Date Collected: 05/20/20 14:10

Lab Sample ID: 480-170188-3

Matrix: Water

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	100	82	ug/L			05/22/20 14:00	10
1,1,2,2-Tetrachloroethane	ND	100	21	ug/L			05/22/20 14:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	100	31	ug/L			05/22/20 14:00	10
1,1,2-Trichloroethane	ND	100	23	ug/L			05/22/20 14:00	10
1,1-Dichloroethane	ND	100	38	ug/L			05/22/20 14:00	10
1,1-Dichloroethene	ND	100	29	ug/L			05/22/20 14:00	10
1,2,4-Trichlorobenzene	ND	100	41	ug/L			05/22/20 14:00	10
1,2,4-Trimethylbenzene	ND	100	75	ug/L			05/22/20 14:00	10
1,2-Dibromo-3-Chloropropane	ND	100	39	ug/L			05/22/20 14:00	10
1,2-Dibromoethane	ND	100	73	ug/L			05/22/20 14:00	10
1,2-Dichlorobenzene	ND	100	79	ug/L			05/22/20 14:00	10
1,2-Dichloroethane	ND	100	21	ug/L			05/22/20 14:00	10
1,2-Dichloropropane	ND	100	72	ug/L			05/22/20 14:00	10
1,3,5-Trimethylbenzene	ND	100	77	ug/L			05/22/20 14:00	10
1,3-Dichlorobenzene	ND	100	78	ug/L			05/22/20 14:00	10
1,4-Dichlorobenzene	ND	100	84	ug/L			05/22/20 14:00	10
2-Butanone (MEK)	ND	1000	130	ug/L			05/22/20 14:00	10
2-Hexanone	ND	500		ug/L			05/22/20 14:00	10
4-Isopropyltoluene	ND	100		ug/L			05/22/20 14:00	10
4-Methyl-2-pentanone (MIBK)	ND	500		ug/L			05/22/20 14:00	10
Acetone	ND	1000		ug/L			05/22/20 14:00	10
Benzene	4300	100		ug/L			05/22/20 14:00	10
Bromodichloromethane	ND	100	39	-			05/22/20 14:00	10
Bromoform	ND	100		ug/L			05/22/20 14:00	10
Bromomethane	ND	100		ug/L			05/22/20 14:00	10
Carbon disulfide	ND	100		ug/L			05/22/20 14:00	10
Carbon tetrachloride	ND	100		ug/L			05/22/20 14:00	10
Chlorobenzene	ND	100		ug/L			05/22/20 14:00	10
Chloroethane	ND	100		ug/L			05/22/20 14:00	10
Chloroform	ND	100		ug/L			05/22/20 14:00	10
Chloromethane	ND	100		ug/L			05/22/20 14:00	10
cis-1,2-Dichloroethene	ND	100		ug/L			05/22/20 14:00	10
cis-1,3-Dichloropropene	ND	100		ug/L			05/22/20 14:00	10
Cyclohexane	ND	100		ug/L			05/22/20 14:00	10
Dibromochloromethane	ND	100		ug/L			05/22/20 14:00	10
Dichlorodifluoromethane	ND	100		ug/L			05/22/20 14:00	10
Ethylbenzene	210	100		ug/L			05/22/20 14:00	10
Isopropylbenzene	ND ND	100		ug/L			05/22/20 14:00	10
m,p-Xylene	100 J	200		ug/L			05/22/20 14:00	10
Methyl acetate	ND	250		ug/L			05/22/20 14:00	10
Methyl tert-butyl ether	ND	100		ug/L			05/22/20 14:00	10
Methylcyclohexane	ND	100		ug/L			05/22/20 14:00	10
								10
Methylene Chloride	ND	100 100		ug/L ug/L			05/22/20 14:00 05/22/20 14:00	10
Naphthalene	340 ND							10
n-Butylbenzene	ND ND	100		ug/L			05/22/20 14:00	
N-Propylbenzene	ND	100		ug/L			05/22/20 14:00	10
o-Xylene	ND ND	100		ug/L			05/22/20 14:00	10
sec-Butylbenzene Styrene	ND ND	100		ug/L ug/L			05/22/20 14:00 05/22/20 14:00	10

Eurofins TestAmerica, Buffalo

5/29/2020

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Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Received: 05/20/20 14:25

Lab Sample ID: 480-170188-3 Date Collected: 05/20/20 14:10

Matrix: Water

Analyte	Result	Qualifier	RI	. МО	L	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		100	3 (31	ug/L			05/22/20 14:00	100
Tetrachloroethene	ND		100) 3	36	ug/L			05/22/20 14:00	100
Toluene	600		100) 5	51	ug/L			05/22/20 14:00	100
trans-1,2-Dichloroethene	ND		100) 9	90	ug/L			05/22/20 14:00	100
trans-1,3-Dichloropropene	ND		100) 3	37	ug/L			05/22/20 14:00	100
Trichloroethene	ND		100) 4	16	ug/L			05/22/20 14:00	100
Trichlorofluoromethane	ND		100) (88	ug/L			05/22/20 14:00	100
Vinyl chloride	ND		100) 9	90	ug/L			05/22/20 14:00	100
Xylenes, Total	100	J	200) 6	66	ug/L			05/22/20 14:00	100
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120	-			•		05/22/20 14:00	100
4-Bromofluorobenzene (Surr)	97		73 - 120						05/22/20 14:00	100
Toluene-d8 (Surr)	96		80 - 120						05/22/20 14:00	100

Client Sample ID: Post-Carbon 2

Date Collected: 05/20/20 13:45 Date Received: 05/20/20 14:25 Lab Sample ID: 480-170188-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533021	05/22/20 13:14	CRL	TAL BUF
Total/NA	Prep	3510C			533286	05/26/20 07:16	SMP	TAL BUF
Total/NA	Analysis	8270D		1	533441	05/27/20 05:58	PJQ	TAL BUF
Total/NA	Prep	3510C			533319	05/26/20 08:52	JMP	TAL BUF
Total/NA	Analysis	608.3		1	533479	05/27/20 10:47	JLS	TAL BUF
Total/NA	Prep	1664B			533406	05/26/20 14:36	T1S	TAL BUF
Total/NA	Analysis	1664B		1	533465	05/26/20 21:11	T1S	TAL BUF
Total/NA	Prep	Distill/CN			533198	05/22/20 21:28	ALT	TAL BUF
Total/NA	Analysis	335.4		2	533220	05/23/20 11:48	CRK	TAL BUF
Total/NA	Analysis	420.4		1	534027	05/29/20 12:22	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	533004	05/21/20 19:05	E1T	TAL BUF
Total/NA	Analysis	SM 2540D		1	532994	05/21/20 17:15	E1T	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	532943	05/21/20 13:23	BEF	TAL BUF
Total/NA	Analysis	SM 5210B		1	532796	05/21/20 01:39	EY	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 05/20/20 14:00 Date Received: 05/20/20 14:25 Lab Sample ID: 480-170188-2

Matrix: Wastewater

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	533021	05/22/20 13:37	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	50	533211	05/23/20 18:08	AMM	TAL BUF
Total/NA	Prep	200.7			532848	05/21/20 10:12	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	533073	05/21/20 17:07	LMH	TAL BUF
Total/NA	Analysis	300.0		5	533353	05/26/20 19:10	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	532772	05/20/20 18:27	SRW	TAL BUF

Client Sample ID: Outside Sump

Date Collected: 05/20/20 14:10

Date Received: 05/20/20 14:25

Lab Sample	ID: 480-170188-3
------------	------------------

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	533021	05/22/20 14:00	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Authority		Identification Number	Expiration Date			
New York		NELAP	10026	04-02-21			
The following analytes the agency does not of	•	but the laboratory is not certified	by the governing authority. This list ma	ay include analytes for which			
Analysis Method	Prep Method	Matrix	Analyte				
335.4	Distill/CN	Wastewater	Cyanide, Total				
SM 4500 H+ B		Wastewater	рН				
SM 4500 H+ B		Wastewater	Temperature				

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Method Summary

Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Method	Method Description	Protocol	Laboratory
3260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
3270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
608.3	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
664B	HEM and SGT-HEM	1664B	TAL BUF
800.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
35.4	Cyanide, Total	MCAWW	TAL BUF
20.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
M 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
M 4500 H+ B	pH	SM	TAL BUF
M 5210B	BOD, 5-Day	SM	TAL BUF
664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
00.7	Preparation, Total Metals	EPA	TAL BUF
510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
030C	Purge and Trap	SW846	TAL BUF
istill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

1664B = 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.

None = None

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

Eurofins TestAmerica, Buffalo

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Sample Summary

Client: New York State D.E.C. Job ID: 480-170188-1

Project/Site: Gastown WWTP #915171

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
480-170188-1	Post-Carbon 2	Wastewater	05/20/20 13:45	05/20/20 14:25	
480-170188-2	Pre-Carbon	Wastewater	05/20/20 14:00	05/20/20 14:25	
480-170188-3	Outside Sump	Water	05/20/20 14:10	05/20/20 14:25	

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TestAmerica Buffalo

10 Hazelwood Drive

5/29/2020

Amherst, NY 14228-2298

Chain of Custody Record



Client Information	Sample	" IUV				PM: hnson	PM: nson, Orlette S				Carrier Tracking No(s):						COC No: 480-123669-28089.1					
Client Information Client Contact: Chomas Palmer	Phone:	800 28	7785	7		Mail: lette.io	hnsc	nson@testamericainc.com										Page: Page 1 of 1				
Company:		0 - 0.0	1113		15	T							Da		-4-4						Job #:	
Groundwater & Environmental Services Inc	Due D	ate Requeste	ıq.			+	100	_	_		Anai	ysis	Re	que	sted	_				2000	Preservation Codes	
15 Lawrence Bell Drive Suite 6	Due D	ate Requeste																			A STATE OF THE PARTY OF THE PAR	M - Hexane
City: Williamsville	TAT R	equested (da	ys):							1											B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: NY, 14221																					E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 518-402-9662(Tel)	PO#: CallC	out ID 1360	76			0		9		sides	Pue		spi									S - H2SO4 T - TSP Dodecahydrate
Email: tpalmer@gesonline.com	WO#: GES	Project # 0	901691			s or No	No)	overab		Pestic	Demand	spil	loS pa		-					2	I - Ice	U - Acetone V - MCAA
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Projec 4800	t #:				3	S OF	Reco	tars)	Itant A	1900	og pa	solv		}		804			taine	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOV					1	CYe	Total	CP-51 (Stars)	Poll SVC	O Is	bued	al Dis	otal		Grease		N N	Total	con	Other:	
New York	-					- Sp	/WSI	olics,	CP.	iority	imac	Susp	-To-	de, T	표	od Gr	MOD	A,	ılty.	er of		
Sample Identification	San	nple Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=	eld Filte	Perform MS	420.4 - Phenolics, Total Recoverable	8260C - TCL -	608_Pest - Priority Pollutant Pesticides	5210B - Biochemical Oxygen	2540D - Total Suspended Solids	2540C Calcd - Total Dissolved Solids	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and	300.0_28D - (MOD) CI,	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Ins	tructions/Note:
		> <	><		tion Code		X	S	AN	N	N	N	N	В	N	S	N	D	N	X		
Post-Carbon 2	5	120	1345	6	Water	n	n	Х	X	x >	x >	x x	×	X	X	X						
Pre-Carbon	_	120	1400	G	Water	n	n		X	T							X	X	X			
Outside Sump	5	20	1410	G	Water	n	n		х													
	4								1	+	+	4	+	+	1	-	-	_	-			
	+			-		+	H		-	+	+	-	III	' 	, 		, 		WW		annumu —	
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																_						
Possible Hazard Identification							Sai					ee ma	y be	ass	esse	d if s	amp	les a			ned longer than 1	
Non-Hazard Flammable Skin Irritant P Deliverable Requested: I, II, III, IV, Other (specify)	oison B	Unkn	own F	Radiologica			Spe			To Cl		Requ	irem	Disp ents	osal :	By L	ab			Arch	hive For	Months
Empty Kit Relinquished by:			Date:			Ti	ime:						-		Me	thod o	f Ship	ment:	_			
Relinquished by 13/	Date	Time Zo	142	7	Company	æ		Rece	ived by	y:							Dat	te/Tim	e:	_		Company
Relinquished by:	Date	/Time:	17'	71	Company	63		Rece	ived by	y:	_						Dat	te/Tim	e:			Company
	Date/Time: Company				Received by:					Date/Time: 5/20/70 4/25 Company,												

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Ver: 01/16/2019

Client: New York State D.E.C.

Job Number: 480-170188-1

Login Number: 170188 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

orditor. Gasada, Brondan B		
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	5.6 #1 ICE
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 (Excluding tests with immediate HTs)	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	Groundwater & Env. Services
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-171384-1

Client Project/Site: Gastown WWTP #915171

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Authorized for release by: 6/30/2020 6:32:57 AM

Orlette Johnson, Senior Project Manager

(484)685-0864

orlette.johnson@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

Orlette Johnson

Senior Project Manager 6/30/2020 6:32:57 AM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-171384-1

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Lab Chronicle	12
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Method Summary	14
Sample Summary	15
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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

* LCS or LCSD is outside acceptance limits.

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.

General Chemistry

Qualifier Qualifier Description

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Buffalo

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6/30/2020

Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-171384-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-171384-1

Receipt

The samples were received on 6/18/2020 11:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-537241 recovered above the upper control limit for Carbon disulfide, Cyclohexane, Vinyl chloride, Chloromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane and Methylcyclohexane. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Post CARBON 2 (480-171384-1), Pre-Carbon (480-171384-2) and OUTSIDE SUMP (480-171384-3).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-537241 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: Post CARBON 2 (480-171384-1), Pre-Carbon (480-171384-2) and OUTSIDE SUMP (480-171384-3).

Method 8260C: Due to the high concentration of Benzene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-537241 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. The associated samples are impacted: (480-171384-A-3 MS) and (480-171384-A-3 MSD).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-171384-2), OUTSIDE SUMP (480-171384-3), (480-171384-A-3 MS) and (480-171384-A-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-171384-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-171384-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post CARBON 2 (480-171384-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Job ID: 480-171384-1

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Eurofins TestAmerica, Buffalo 6/30/2020

Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post CARBON 2

Date Collected: 06/18/20 10:30 Date Received: 06/18/20 11:15

Lab Sample ID: 480-171384-1

Matrix: Water

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			06/22/20 15:29	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L			06/22/20 15:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			06/22/20 15:29	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			06/22/20 15:29	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			06/22/20 15:29	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			06/22/20 15:29	
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			06/22/20 15:29	
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			06/22/20 15:29	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			06/22/20 15:29	
,2-Dichlorobenzene	ND	1.0	0.79	ug/L			06/22/20 15:29	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			06/22/20 15:29	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			06/22/20 15:29	
I,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			06/22/20 15:29	
,3-Dichlorobenzene	ND	1.0	0.78	ug/L			06/22/20 15:29	
,4-Dichlorobenzene	ND	1.0	0.84	ug/L			06/22/20 15:29	
P-Butanone (MEK)	ND	10	1.3	ug/L			06/22/20 15:29	
2-Hexanone	ND	5.0	1.2	ug/L			06/22/20 15:29	
-Isopropyltoluene	ND	1.0	0.31	ug/L			06/22/20 15:29	
-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			06/22/20 15:29	
Acetone	ND	10		ug/L			06/22/20 15:29	
Benzene	ND	1.0		ug/L			06/22/20 15:29	
Bromoform	ND	1.0		ug/L			06/22/20 15:29	
Bromomethane	ND	1.0		ug/L			06/22/20 15:29	
Carbon disulfide	ND	1.0		ug/L			06/22/20 15:29	
Carbon tetrachloride	ND	1.0		ug/L			06/22/20 15:29	
Chlorobenzene	ND	1.0		ug/L			06/22/20 15:29	
Dibromochloromethane	ND	1.0		ug/L			06/22/20 15:29	
Chloroethane	ND	1.0		ug/L			06/22/20 15:29	
Chloroform	ND	1.0		ug/L			06/22/20 15:29	
Chloromethane	ND *	1.0		ug/L			06/22/20 15:29	
sis-1,2-Dichloroethene	ND	1.0		ug/L			06/22/20 15:29	
Cyclohexane	ND	1.0		ug/L			06/22/20 15:29	
Bromodichloromethane	ND	1.0		ug/L			06/22/20 15:29	
Dichlorodifluoromethane	ND	1.0		ug/L			06/22/20 15:29	
Ethylbenzene	ND	1.0		ug/L			06/22/20 15:29	
,2-Dibromoethane	ND	1.0		ug/L			06/22/20 15:29	
sopropylbenzene	ND	1.0		ug/L			06/22/20 15:29	
Methyl acetate	ND	2.5		ug/L			06/22/20 15:29	
Nethyl tert-butyl ether	ND	1.0		ug/L			06/22/20 15:29	
/lethylcyclohexane	ND	1.0		ug/L			06/22/20 15:29	
Methylene Chloride	ND	1.0		ug/L			06/22/20 15:29	
n,p-Xylene	ND	2.0		ug/L			06/22/20 15:29	
· · · · · · · · · · · · · · · · · · ·	ND			ug/L			06/22/20 15:29	
laphthalene -Butylbenzene	ND ND	1.0 1.0		ug/L ug/L			06/22/20 15:29	
I-Butylbenzene I-Propylbenzene	ND ND	1.0		ug/L ug/L			06/22/20 15:29	
p-Xylene	ND ND	1.0		ug/L			06/22/20 15:29	
sec-Butylbenzene	ND ND	1.0		ug/L			06/22/20 15:29	
Tetrachloroethene Toluene	ND ND	1.0 1.0		ug/L ug/L			06/22/20 15:29 06/22/20 15:29	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post CARBON 2

Date Collected: 06/18/20 10:30 Date Received: 06/18/20 11:15

tert-Butylbenzene

Lab Sample ID: 480-171384-1

06/22/20 15:29

Matrix: Water

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)										
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
trans-1,2-Dichloroethene	ND ND	1.0	0.90	ug/L			06/22/20 15:29	1		
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			06/22/20 15:29	•		
Trichloroethene	ND	1.0	0.46	ug/L			06/22/20 15:29			
Trichlorofluoromethane	ND	1.0	0.88	ug/L			06/22/20 15:29	•		
Vinyl chloride	ND	1.0	0.90	ug/L			06/22/20 15:29	1		
Xylenes, Total	ND	2.0	0.66	ug/L			06/22/20 15:29			
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			06/22/20 15:29	1		
Styrene	ND	1.0	0.73	ug/L			06/22/20 15:29	•		

Surrogate	%Recovery Qualifier	Limits	Prepared Analy	zed Dil F	Fac
1,2-Dichloroethane-d4 (Surr)		77 - 120	06/22/20	7 15:29	
4-Bromofluorobenzene (Surr)	96	73 - 120	06/22/20) 15:29	1
Toluene-d8 (Surr)	93	80 - 120	06/22/20) 15:29	1
Dibromofluoromethane (Surr)	96	75 - 123	06/22/20) 15:29	1

1.0

0.81 ug/L

ND

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15		0.010	0.0050	mg/L		06/23/20 11:35	06/24/20 10:21	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4	HF	0.1	0.1	SU			06/18/20 17:51	1
Temperature	19.5	HF	0.001	0.001	Degrees C			06/18/20 17:51	1

Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 06/18/20 10:35 Date Received: 06/18/20 11:15 Lab Sample ID: 480-171384-2

Matrix: Water

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND	25	21	ug/L			06/22/20 15:52	
1,1,2,2-Tetrachloroethane	ND	25	5.3	ug/L			06/22/20 15:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25	7.8	ug/L			06/22/20 15:52	
1,1,2-Trichloroethane	ND	25	5.8	ug/L			06/22/20 15:52	
1,1-Dichloroethane	ND	25	9.5	ug/L			06/22/20 15:52	
1,1-Dichloroethene	ND	25	7.3	ug/L			06/22/20 15:52	
1,2,4-Trichlorobenzene	ND	25	10	ug/L			06/22/20 15:52	
I,2,4-Trimethylbenzene	ND	25	19	ug/L			06/22/20 15:52	
1,2-Dibromo-3-Chloropropane	ND	25	9.8	ug/L			06/22/20 15:52	
1,2-Dichlorobenzene	ND	25	20	ug/L			06/22/20 15:52	
1,2-Dichloroethane	ND	25	5.3	ug/L			06/22/20 15:52	
1,2-Dichloropropane	ND	25	18	ug/L			06/22/20 15:52	
1,3,5-Trimethylbenzene	ND	25	19	ug/L			06/22/20 15:52	
1,3-Dichlorobenzene	ND	25		ug/L			06/22/20 15:52	
1,4-Dichlorobenzene	ND	25		ug/L			06/22/20 15:52	
2-Butanone (MEK)	ND	250		ug/L			06/22/20 15:52	
2-Hexanone	ND	130		ug/L			06/22/20 15:52	
1-Isopropyltoluene	ND	25		ug/L			06/22/20 15:52	
4-Methyl-2-pentanone (MIBK)	ND	130		ug/L			06/22/20 15:52	
Acetone	ND	250		ug/L			06/22/20 15:52	
Bromoform	ND	25		ug/L			06/22/20 15:52	
Bromomethane	ND	25		ug/L			06/22/20 15:52	
Carbon disulfide	ND	25		ug/L			06/22/20 15:52	
Carbon tetrachloride	ND	25		ug/L			06/22/20 15:52	
Chlorobenzene	ND	25		ug/L			06/22/20 15:52	
Dibromochloromethane	ND	25		ug/L			06/22/20 15:52	
Chloroethane	ND	25		ug/L			06/22/20 15:52	
Chloroform	10 J	25		ug/L			06/22/20 15:52	
Chloromethane	ND *	25		ug/L			06/22/20 15:52	
cis-1,2-Dichloroethene	ND	25		ug/L			06/22/20 15:52	
Cyclohexane	ND	25		ug/L			06/22/20 15:52	
Bromodichloromethane	ND	25		ug/L			06/22/20 15:52	
Dichlorodifluoromethane	ND	25		ug/L			06/22/20 15:52	
Ethylbenzene	26	25		ug/L			06/22/20 15:52	
1,2-Dibromoethane	ND	25		ug/L			06/22/20 15:52	
sopropylbenzene	ND	25		ug/L			06/22/20 15:52	
Methyl acetate	ND	63		ug/L			06/22/20 15:52	
Methyl tert-butyl ether	ND	25		ug/L			06/22/20 15:52	
Methylcyclohexane	ND	25 25		ug/L ug/L			06/22/20 15:52	
Methylene Chloride	ND	25 25		ug/L			06/22/20 15:52	
•								
n,p-Xylene	130	50 25		ug/L			06/22/20 15:52 06/22/20 15:52	
Naphthalene Putulbonzono	630 ND			ug/L			06/22/20 15:52	
n-Butylbenzene	ND ND	25 25		ug/L				
N-Propylbenzene	ND	25 25		ug/L			06/22/20 15:52	
o-Xylene	93	25		ug/L			06/22/20 15:52	
sec-Butylbenzene	ND	25		ug/L			06/22/20 15:52	
Tetrachloroethene	ND	25		ug/L			06/22/20 15:52	
Foluene rans-1,2-Dichloroethene	520 ND	25	13	ug/L			06/22/20 15:52 06/22/20 15:52	

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 06/18/20 10:35 Date Received: 06/18/20 11:15 Lab Sample ID: 480-171384-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			06/22/20 15:52	25
Trichloroethene	ND		25	12	ug/L			06/22/20 15:52	25
Trichlorofluoromethane	ND		25	22	ug/L			06/22/20 15:52	25
Vinyl chloride	ND		25	23	ug/L			06/22/20 15:52	25
Xylenes, Total	220		50	17	ug/L			06/22/20 15:52	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			06/22/20 15:52	25
Styrene	ND		25	18	ug/L			06/22/20 15:52	25
tert-Butylbenzene	ND		25	20	ug/L			06/22/20 15:52	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120			•		06/22/20 15:52	25
4-Bromofluorobenzene (Surr)	102		73 - 120					06/22/20 15:52	25
Toluene-d8 (Surr)	96		80 - 120					06/22/20 15:52	25
Dibromofluoromethane (Surr)	97		75 - 123					06/22/20 15:52	25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4200		100	41	ug/L			06/23/20 12:00	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		77 - 120			,		06/23/20 12:00	100
4-Bromofluorobenzene (Surr)	99		73 - 120					06/23/20 12:00	100
Toluene-d8 (Surr)	93		80 - 120					06/23/20 12:00	100
Dibromofluoromethane (Surr)	97		75 - 123					06/23/20 12:00	100

Method: 200.7 Rev 4.4	• • •	Qualifier	RL	MDL	Unit	n	Dropored	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	MDL	Ullit	U	Prepared	Allalyzeu	DII Fac
Calcium	139000		500	100	ug/L		06/23/20 16:05	06/24/20 17:30	1
Magnesium	49900		200	43.4	ug/L		06/23/20 16:05	06/24/20 17:30	1
Potassium	4460	В	500	100	ug/L		06/23/20 16:05	06/24/20 17:30	1
Sodium	98300		1000	324	ug/L		06/23/20 16:05	06/24/20 17:30	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		2.5	1.4	mg/L			06/27/20 16:53	5
Sulfate	123		10.0	1.7	mg/L			06/27/20 16:53	5
Alkalinity, Total	380		50.0	20.0	mg/L			06/24/20 00:21	5

Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Date Collected: 06/18/20 11:00
Date Received: 06/18/20 11:15

Lab Sample ID: 480-171384-3

Matrix: Water

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	100	82	ug/L			06/22/20 16:15	10
1,1,2,2-Tetrachloroethane	ND	100	21	ug/L			06/22/20 16:15	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	100	31	ug/L			06/22/20 16:15	10
1,1,2-Trichloroethane	ND	100	23	ug/L			06/22/20 16:15	10
1,1-Dichloroethane	ND	100	38	ug/L			06/22/20 16:15	10
1,1-Dichloroethene	ND	100	29	ug/L			06/22/20 16:15	10
1,2,4-Trichlorobenzene	ND	100	41	ug/L			06/22/20 16:15	10
1,2,4-Trimethylbenzene	ND	100	75	ug/L			06/22/20 16:15	10
1,2-Dibromo-3-Chloropropane	ND	100	39	ug/L			06/22/20 16:15	10
1,2-Dichlorobenzene	ND	100	79	ug/L			06/22/20 16:15	10
1,2-Dichloroethane	ND	100	21	ug/L			06/22/20 16:15	10
1,2-Dichloropropane	ND	100	72	ug/L			06/22/20 16:15	10
1,3,5-Trimethylbenzene	ND	100	77	ug/L			06/22/20 16:15	10
1,3-Dichlorobenzene	ND	100	78	ug/L			06/22/20 16:15	10
1,4-Dichlorobenzene	ND	100	84	ug/L			06/22/20 16:15	10
2-Butanone (MEK)	ND	1000	130	ug/L			06/22/20 16:15	10
2-Hexanone	ND	500	120	ug/L			06/22/20 16:15	10
4-Isopropyltoluene	ND	100	31	ug/L			06/22/20 16:15	10
4-Methyl-2-pentanone (MIBK)	ND	500	210	ug/L			06/22/20 16:15	10
Acetone	ND	1000	300	ug/L			06/22/20 16:15	10
Benzene	7900	100	41	ug/L			06/22/20 16:15	10
Bromoform	ND	100	26	ug/L			06/22/20 16:15	10
Bromomethane	ND	100	69	ug/L			06/22/20 16:15	10
Carbon disulfide	ND	100	19	ug/L			06/22/20 16:15	10
Carbon tetrachloride	ND	100	27	ug/L			06/22/20 16:15	10
Chlorobenzene	ND	100	75	ug/L			06/22/20 16:15	10
Dibromochloromethane	ND	100	32	ug/L			06/22/20 16:15	10
Chloroethane	ND	100		ug/L			06/22/20 16:15	10
Chloroform	37 J	100	34	ug/L			06/22/20 16:15	10
Chloromethane	ND *	100	35	ug/L			06/22/20 16:15	10
cis-1,2-Dichloroethene	ND	100	81	ug/L			06/22/20 16:15	10
Cyclohexane	ND	100	18	ug/L			06/22/20 16:15	10
Bromodichloromethane	ND	100	39	ug/L			06/22/20 16:15	10
Dichlorodifluoromethane	ND	100	68	ug/L			06/22/20 16:15	10
Ethylbenzene	450	100		ug/L			06/22/20 16:15	10
1,2-Dibromoethane	ND	100	73	ug/L			06/22/20 16:15	10
Isopropylbenzene	ND	100		ug/L			06/22/20 16:15	10
Methyl acetate	ND	250		ug/L			06/22/20 16:15	10
Methyl tert-butyl ether	ND	100		ug/L			06/22/20 16:15	10
Methylcyclohexane	ND	100		ug/L			06/22/20 16:15	10
Methylene Chloride	ND	100		ug/L			06/22/20 16:15	10
m,p-Xylene	220	200		ug/L			06/22/20 16:15	10
Naphthalene	1100	100		ug/L			06/22/20 16:15	10
n-Butylbenzene	ND	100		ug/L			06/22/20 16:15	10
N-Propylbenzene	ND	100		ug/L			06/22/20 16:15	10
o-Xylene	110	100		ug/L			06/22/20 16:15	10
sec-Butylbenzene	ND	100		ug/L			06/22/20 16:15	10
Tetrachloroethene	ND	100		ug/L			06/22/20 16:15	10
Toluene	1000	100		ug/L			06/22/20 16:15	10

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Date Collected: 06/18/20 11:00 Date Received: 06/18/20 11:15 Lab Sample ID: 480-171384-3

Matrix: Water

Method: 8260C - Volatile O	rganic Compoi	unds by G	C/MS (Contir	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			06/22/20 16:15	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			06/22/20 16:15	100
Trichloroethene	ND		100	46	ug/L			06/22/20 16:15	100
Trichlorofluoromethane	ND		100	88	ug/L			06/22/20 16:15	100
Vinyl chloride	ND		100	90	ug/L			06/22/20 16:15	100
Xylenes, Total	330		200	66	ug/L			06/22/20 16:15	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			06/22/20 16:15	100
Styrene	ND		100	73	ug/L			06/22/20 16:15	100
tert-Butylbenzene	ND		100	81	ug/L			06/22/20 16:15	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					06/22/20 16:15	100
4-Bromofluorobenzene (Surr)	108		73 - 120					06/22/20 16:15	100
Toluene-d8 (Surr)	101		80 - 120					06/22/20 16:15	100
Dibromofluoromethane (Surr)	104		75 - 123					06/22/20 16:15	100

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post CARBON 2

Date Collected: 06/18/20 10:30 Date Received: 06/18/20 11:15 Lab Sample ID: 480-171384-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	537241	06/22/20 15:29	CRL	TAL BUF
Total/NA	Prep	Distill/CN			537561	06/23/20 11:35	CRK	TAL BUF
Total/NA	Analysis	335.4		1	537763	06/24/20 10:21	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	537603	06/18/20 17:51	BEF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 06/18/20 10:35 Date Received: 06/18/20 11:15 Lab Sample ID: 480-171384-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	537241	06/22/20 15:52	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	100	537479	06/23/20 12:00	CRL	TAL BUF
Total/NA	Prep	200.7			537360	06/23/20 16:05	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	537948	06/24/20 17:30	AMH	TAL BUF
Total/NA	Analysis	300.0		5	538361	06/27/20 16:53	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	537780	06/24/20 00:21	SRW	TAL BUF

Client Sample ID: OUTSIDE SUMP

Date Collected: 06/18/20 11:00

Date Received: 06/18/20 11:15

Lab Sample ID: 480-171384-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	537241	06/22/20 16:15	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-171384-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority New York		Program	Identification Number	Expiration Date
		NELAP	10026	04-02-21
The following analytes the agency does not do		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 335.4		Matrix Water	Analyte Cyanide, Total	
	Prep Method			

Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-171384-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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	рН	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

Eurofins TestAmerica, Buffalo

6/30/2020

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Lab Sample ID **Client Sample ID** Matrix Collected Received Asset ID 480-171384-1 Post CARBON 2 Water 06/18/20 10:30 06/18/20 11:15 480-171384-2 Pre-Carbon Water 06/18/20 10:35 06/18/20 11:15 480-171384-3 **OUTSIDE SUMP** Water 06/18/20 11:00 06/18/20 11:15

Job ID: 480-171384-1

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CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

FED-EX Tracking #

	415 Lawrence Rou In	Joseph State																				-		
	415 Laurence Ben Drive Scitels Williamsvine by 14521									L	ab Quo	te#							Lab Job #	1				
C	LIENT/REPORTING INFORMATION		PROJECT INFORMATION BILLING INFORMATION						N	VI.	Walle S				REQUESTED ANALYSIS (see Test Code sheet)						LAB USE ONLY			
Project N Thomas I PM Emai tpalmer	oundwater & Environmental Services, Inc. 5 Aero Drive, Cheektowaga, NY 14225 oject Manager: Phone #: Project nomas Palmer 800-287-7857 A Email: Fax #: Project		Project A 26 E Niagara St, Project F 8157	a/NY/ENiagaraSt/126 Address: :, Tonawanda, NY : PSID #: 5731 OJOGGI – GF-HO			NYSDEC Region 9 NYSDEC Project Manager: Glenn May Phone #: 716-851-7200 Invoice Instructions NYSDEC Site No. 915171 Lab Project Manager: Orlette Johnson				nson			e, Total		- TCL + CP-51 (Stars)	S04	К, На	Alkalinity, Total			ONLY		
Sampler(s) Na	Peter Zaffran		Sampler(s) Name	Zaffa	11			-	T	numbe	er of p	reserv	ed bo	ttles	\top	Cyanide,	H+-p	7	D - Cl,	Mg, Mg	kalin			
Lab Sample#	Field ID / Point of Collection (Sys_loc_code)	Depth Interval		Time Sampled	Sampler	Matrix	Total # Bottles	HCI	NaOH	HN03	H2504	NONE	DI Water	МЕОН	ENCORE		SM4500_H+-pH	8260C - T	300.0_28D	200.7 - Ca,	310.2 - Al			
	Post Carbon 2	-	6/18/20	1030	P.Z.	WG	5									Х	_	X						
	Pre-Carbon	-	6/18/20	1035	7.2	WG	6											X	X	X	X			
	Outside Sump	_	6/18/20	1100	7.2.	WG	3											X						
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Oth	er	/	Lab PM: Lab PM Email						-	┌ N.	J Red	uced =	Resu		C Summ	nary + Pa	artial Ray	v Data						
EQEDD N	Sample Custody must be document	NiagaraSt/126_	LabReport#.178	311.EQEDD.	uding courier.						J Date YASP YASP	ercial' a of Kn Catego Catego forms	own (Quality	Protoc	col Repo	rting							
1 Relinquish	tom	6/18/20 Date / Time:	1115 1	ived BV:	5 611	10/10	115			₩ EI	DD Fo	rmat												
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6/30/2020

Custody Seal Number:

Not Intact

☐ On Ice

Cooler Temp

Client: New York State D.E.C.

Job Number: 480-171384-1

Login Number: 171384

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

oroator: Otopa, Link o		
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 (Excluding tests with immediate HTs)	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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-173207-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Authorized for release by: 8/14/2020 2:29:16 PM

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

Orlette Johnson

Senior Project Manager 8/14/2020 2:29:16 PM

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Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-173207-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Qualifiers

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

General Chemistry

Qualifier Description

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: New York State D.E.C.

Job ID: 480-173207-1 Project/Site: Gastown WWTP #915171

Job ID: 480-173207-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-173207-1

Receipt

The samples were received on 7/31/2020 2:55 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: OUTSIDE SUMP (480-173207-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-173207-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-543324 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: OUTSIDE SUMP (480-173207-3).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-543466 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCVIS were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: Post-Carbon (480-173207-1) and Pre-Carbon (480-173207-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-173207-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon (480-173207-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon

Date Collected: 07/31/20 14:10 Date Received: 07/31/20 14:55 Lab Sample ID: 480-173207-1

Matrix: Wastewater

Result Qualifier	RL			D	Prepared	Analyzed	Dil Fa
			-				
			-				
	1.0						
	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0	0.41	ug/L			08/03/20 22:06	
ND	1.0	0.75	ug/L			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0	0.79	ug/L			08/03/20 22:06	
ND	1.0	0.21	ug/L			08/03/20 22:06	
ND	1.0	0.72	ug/L			08/03/20 22:06	
ND	1.0	0.77	ug/L			08/03/20 22:06	
ND	1.0	0.78	ug/L			08/03/20 22:06	
ND	1.0	0.84	ug/L			08/03/20 22:06	
ND	10	1.3	ug/L			08/03/20 22:06	
ND	5.0	1.2	ug/L			08/03/20 22:06	
ND	1.0	0.31	ug/L			08/03/20 22:06	
ND	5.0	2.1	ug/L			08/03/20 22:06	
ND	10	3.0	ug/L			08/03/20 22:06	
ND	1.0	0.41	ug/L			08/03/20 22:06	
ND	1.0	0.26	ug/L			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
ND			-				
ND	1.0		-			08/03/20 22:06	
ND	1.0		-			08/03/20 22:06	
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	Result Qualifier ND	ND 1.0 ND 1.0	Result Qualifier RL MDL ND 1.0 0.82 ND 1.0 0.21 ND 1.0 0.23 ND 1.0 0.23 ND 1.0 0.29 ND 1.0 0.41 ND 1.0 0.75 ND 1.0 0.75 ND 1.0 0.75 ND 1.0 0.77 ND 1.0 0.78 ND 1.0 0.77 ND 1.0 0.77 ND 1.0 0.31 ND 1.0 0.31 ND 1.0 0.41 ND 1.0 0.26 ND 1.0 <td> Result Qualifier RL MDL Unit </td> <td> Result Qualifier RL MDL Unit D </td> <td> Result Qualifier RL</td> <td> ND</td>	Result Qualifier RL MDL Unit	Result Qualifier RL MDL Unit D	Result Qualifier RL	ND

Eurofins TestAmerica, Buffalo

8/14/2020

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Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Lab Sample ID: 480-173207-1 **Client Sample ID: Post-Carbon** Date Collected: 07/31/20 14:10

Matrix: Wastewater

Date Received: 07/31/20 14:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/03/20 22:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/03/20 22:06	1
Trichloroethene	ND		1.0	0.46	ug/L			08/03/20 22:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/03/20 22:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/03/20 22:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/03/20 22:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/03/20 22:06	1
Styrene	ND		1.0	0.73	ug/L			08/03/20 22:06	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			08/03/20 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					08/03/20 22:06	1
4-Bromofluorobenzene (Surr)	97		73 - 120					08/03/20 22:06	1
Toluene-d8 (Surr)	101		80 - 120					08/03/20 22:06	1
Dibromofluoromethane (Surr)	99		75 - 123					08/03/20 22:06	1

General Chemistry Analyte Cyanide, Total	Result 0.10	Qualifier	RL 0.010	MDL 0.0050	Unit mg/L	D	Prepared 08/05/20 14:30	Analyzed 08/05/20 18:09	Dil Fac
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1	0.1	SU			08/10/20 15:11	1
Temperature	17.3	HE	0.001	0.001	Degrees C			08/10/20 15:11	1

8/14/2020

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 07/31/20 14:15 Date Received: 07/31/20 14:55 Lab Sample ID: 480-173207-2

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	100	82	ug/L			08/03/20 22:29	10
1,1,2,2-Tetrachloroethane	ND	100	21	ug/L			08/03/20 22:29	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	100	31	ug/L			08/03/20 22:29	10
1,1,2-Trichloroethane	ND	100		ug/L			08/03/20 22:29	10
1,1-Dichloroethane	ND	100	38	ug/L			08/03/20 22:29	10
1,1-Dichloroethene	ND	100		ug/L			08/03/20 22:29	10
1,2,4-Trichlorobenzene	ND	100	41	ug/L			08/03/20 22:29	10
1,2,4-Trimethylbenzene	ND	100	75	ug/L			08/03/20 22:29	10
1,2-Dibromo-3-Chloropropane	ND	100		ug/L			08/03/20 22:29	10
1,2-Dichlorobenzene	ND	100	79	ug/L			08/03/20 22:29	10
1,2-Dichloroethane	ND	100	21	ug/L			08/03/20 22:29	10
1,2-Dichloropropane	ND	100	72	ug/L			08/03/20 22:29	10
1,3,5-Trimethylbenzene	ND	100	77	ug/L			08/03/20 22:29	10
1,3-Dichlorobenzene	ND	100	78	ug/L			08/03/20 22:29	10
1,4-Dichlorobenzene	ND	100	84	ug/L			08/03/20 22:29	10
2-Butanone (MEK)	ND	1000	130	ug/L			08/03/20 22:29	10
2-Hexanone	ND	500	120	ug/L			08/03/20 22:29	10
4-Isopropyltoluene	ND	100	31	ug/L			08/03/20 22:29	10
4-Methyl-2-pentanone (MIBK)	ND	500	210	ug/L			08/03/20 22:29	10
Acetone	ND	1000	300	ug/L			08/03/20 22:29	10
Benzene	2600	100	41	ug/L			08/03/20 22:29	10
Bromoform	ND	100		ug/L			08/03/20 22:29	10
Bromomethane	ND	100		ug/L			08/03/20 22:29	10
Carbon disulfide	ND	100		ug/L			08/03/20 22:29	10
Carbon tetrachloride	ND	100		ug/L			08/03/20 22:29	10
Chlorobenzene	ND	100		ug/L			08/03/20 22:29	10
Dibromochloromethane	ND	100		ug/L			08/03/20 22:29	10
Chloroethane	ND	100		ug/L			08/03/20 22:29	10
Chloroform	170	100		ug/L			08/03/20 22:29	10
Chloromethane	ND	100		ug/L			08/03/20 22:29	10
cis-1,2-Dichloroethene	ND	100		ug/L			08/03/20 22:29	10
Cyclohexane	ND	100		ug/L			08/03/20 22:29	10
Bromodichloromethane	ND	100		ug/L			08/03/20 22:29	10
Dichlorodifluoromethane	ND	100		ug/L			08/03/20 22:29	10
Ethylbenzene	ND	100		ug/L			08/03/20 22:29	10
1,2-Dibromoethane	ND	100		ug/L			08/03/20 22:29	10
Isopropylbenzene	ND	100		ug/L			08/03/20 22:29	10
• • •	ND	250		ug/L			08/03/20 22:29	10
Methyl text but a ther	ND ND	100		•			08/03/20 22:29	10
Methyl tert-butyl ether	ND	100		ug/L			08/03/20 22:29	10
Methylene Chleride				ug/L				
Methylene Chloride	ND ND	100		ug/L			08/03/20 22:29	10
m,p-Xylene		200		ug/L			08/03/20 22:29	10
Naphthalene	120 ND	100		ug/L			08/03/20 22:29	10
n-Butylbenzene	ND	100		ug/L			08/03/20 22:29	10
N-Propylbenzene	ND	100		ug/L			08/03/20 22:29	10
o-Xylene	ND	100		ug/L			08/03/20 22:29	10
sec-Butylbenzene	ND	100		ug/L			08/03/20 22:29	10
Tetrachloroethene	ND	100	36	ug/L			08/03/20 22:29 08/03/20 22:29	10

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C.

Dibromofluoromethane (Surr)

Project/Site: Gastown WWTP #915171

Lab Sample ID: 480-173207-2

Matrix: Wastewater

08/03/20 22:29

Job ID: 480-173207-1

Client Sample ID: Pre-Carbon Date Collected: 07/31/20 14:15 Date Received: 07/31/20 14:55

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS (Contin	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			08/03/20 22:29	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			08/03/20 22:29	100
Trichloroethene	ND		100	46	ug/L			08/03/20 22:29	100
Trichlorofluoromethane	ND		100	88	ug/L			08/03/20 22:29	100
Vinyl chloride	ND		100	90	ug/L			08/03/20 22:29	100
Xylenes, Total	ND		200	66	ug/L			08/03/20 22:29	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			08/03/20 22:29	100
Styrene	ND		100	73	ug/L			08/03/20 22:29	100
tert-Butylbenzene	ND		100	81	ug/L			08/03/20 22:29	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					08/03/20 22:29	100
4-Bromofluorobenzene (Surr)	98		73 - 120					08/03/20 22:29	100
Toluene-d8 (Surr)	100		80 - 120					08/03/20 22:29	100

Method: 200.7 Rev 4.4 Analyte	· ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	126000	В	500	100	ug/L		08/04/20 11:04	08/05/20 14:03	1
Magnesium	41300		200	43.4	ug/L		08/04/20 11:04	08/05/20 14:03	1
Potassium	4460	В	500	100	ug/L		08/04/20 11:04	08/05/20 14:03	1
Sodium	88900	В	1000	324	ug/L		08/04/20 11:04	08/05/20 14:03	1

75 - 123

100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		2.5	1.4	mg/L			08/12/20 21:47	5
Sulfate	89.8		10.0	1.7	mg/L			08/12/20 21:47	5
Alkalinity, Total	398		40.0	16.0	mg/L			08/04/20 23:28	4

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100

8/14/2020

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-173207-3

Date Collected: 07/31/20 14:00 **Matrix: Water** Date Received: 07/31/20 14:55

Method: 8260C - Volatile Organ Analyte	Result Qualifier	RL	MDL	Unit	D Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	100		ug/L		08/03/20 21:42	10
1,1,2,2-Tetrachloroethane	ND	100				08/03/20 21:42	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	100		ug/L		08/03/20 21:42	10
1,1,2-Trichloroethane	ND	100		ug/L		08/03/20 21:42	10
1,1-Dichloroethane	ND	100		ug/L		08/03/20 21:42	10
1,1-Dichloroethene	ND	100		ug/L		08/03/20 21:42	10
1,2,4-Trichlorobenzene	ND	100		ug/L		08/03/20 21:42	10
1,2,4-Trimethylbenzene	ND	100		ug/L		08/03/20 21:42	10
1,2-Dibromo-3-Chloropropane	ND ND	100		-		08/03/20 21:42	10
1,2-Diblomo-3-Chioroproparie 1,2-Dichlorobenzene	ND	100		ug/L ug/L		08/03/20 21:42	10
				-			
1,2-Dichloroethane	ND	100	21	J		08/03/20 21:42	10
1,2-Dichloropropane	ND	100		ug/L		08/03/20 21:42	10
1,3,5-Trimethylbenzene	ND	100		ug/L		08/03/20 21:42	10
1,3-Dichlorobenzene	ND	100		ug/L		08/03/20 21:42	10
1,4-Dichlorobenzene	ND	100		ug/L		08/03/20 21:42	10
2-Butanone (MEK)	ND	1000		ug/L		08/03/20 21:42	10
2-Hexanone	ND	500		•		08/03/20 21:42	10
4-Isopropyltoluene	ND	100	31	U		08/03/20 21:42	10
4-Methyl-2-pentanone (MIBK)	ND	500		ug/L		08/03/20 21:42	10
Acetone	ND	1000	300	ug/L		08/03/20 21:42	10
Benzene	9400	100	41	U		08/03/20 21:42	10
Bromoform	ND	100	26	ug/L		08/03/20 21:42	10
Bromomethane	ND	100	69	U		08/03/20 21:42	10
Carbon disulfide	ND	100		ug/L		08/03/20 21:42	10
Carbon tetrachloride	ND	100	27	ug/L		08/03/20 21:42	10
Chlorobenzene	ND	100	75	ug/L		08/03/20 21:42	10
Dibromochloromethane	ND	100	32	ug/L		08/03/20 21:42	10
Chloroethane	ND	100	32	ug/L		08/03/20 21:42	10
Chloroform	ND	100	34	ug/L		08/03/20 21:42	10
Chloromethane	ND	100	35	ug/L		08/03/20 21:42	10
cis-1,2-Dichloroethene	ND	100	81	ug/L		08/03/20 21:42	10
Cyclohexane	ND	100		ug/L		08/03/20 21:42	10
Bromodichloromethane	ND	100		ug/L		08/03/20 21:42	10
Dichlorodifluoromethane	ND	100		ug/L		08/03/20 21:42	10
Ethylbenzene	510	100		ug/L		08/03/20 21:42	10
1,2-Dibromoethane	ND	100		ug/L		08/03/20 21:42	10
sopropylbenzene	ND	100		ug/L		08/03/20 21:42	10
Methyl acetate	ND	250		ug/L		08/03/20 21:42	10
Methyl tert-butyl ether	ND	100		ug/L		08/03/20 21:42	10
Methylcyclohexane	ND	100		ug/L		08/03/20 21:42	10
Methylene Chloride	ND	100		ug/L		08/03/20 21:42	10
m,p-Xylene	210	200		ug/L		08/03/20 21:42	10
Naphthalene	700	100		ug/L		08/03/20 21:42	10
n-Butylbenzene	ND	100		ug/L ug/L		08/03/20 21:42	10
N-Propylbenzene	ND ND	100		_		08/03/20 21:42	10
				ug/L			
o-Xylene	120 ND	100		ug/L		08/03/20 21:42	10
sec-Butylbenzene	ND	100		ug/L		08/03/20 21:42	10
Tetrachloroethene Toluene	ND 1000	100		ug/L ug/L		08/03/20 21:42 08/03/20 21:42	10

Eurofins TestAmerica, Buffalo

8/14/2020

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-173207-3

Date Collected: 07/31/20 14:00 **Matrix: Water** Date Received: 07/31/20 14:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			08/03/20 21:42	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			08/03/20 21:42	100
Trichloroethene	ND		100	46	ug/L			08/03/20 21:42	100
Trichlorofluoromethane	ND		100	88	ug/L			08/03/20 21:42	100
Vinyl chloride	ND		100	90	ug/L			08/03/20 21:42	100
Xylenes, Total	330		200	66	ug/L			08/03/20 21:42	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			08/03/20 21:42	100
Styrene	ND		100	73	ug/L			08/03/20 21:42	100
tert-Butylbenzene	ND		100	81	ug/L			08/03/20 21:42	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					08/03/20 21:42	100
4-Bromofluorobenzene (Surr)	109		73 - 120					08/03/20 21:42	100
Toluene-d8 (Surr)	93		80 - 120					08/03/20 21:42	100
Dibromofluoromethane (Surr)	104		75 - 123					08/03/20 21:42	100

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon

Date Collected: 07/31/20 14:10

Date Received: 07/31/20 14:55

Lab Sample ID: 480-173207-1 **Matrix: Wastewater**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	543466	08/03/20 22:06	WJD	TAL BUF
Total/NA	Prep	Distill/CN			543808	08/05/20 14:30	JRF	TAL BUF
Total/NA	Analysis	335.4		1	543849	08/05/20 18:09	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	544442	08/10/20 15:11	BEF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 07/31/20 14:15 Date Received: 07/31/20 14:55

Lab Sample ID: 480-173207-2

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	543466	08/03/20 22:29	WJD	TAL BUF
Total/NA	Prep	200.7			543454	08/04/20 11:04	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	543923	08/05/20 14:03	AMH	TAL BUF
Total/NA	Analysis	300.0		5	544794	08/12/20 21:47	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	543654	08/04/20 23:28	SRW	TAL BUF

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-173207-3 Date Collected: 07/31/20 14:00 **Matrix: Water**

Date Received: 07/31/20 14:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	543324	08/03/20 21:42	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-173207-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority New York		Program NELAP	Identification Number	Expiration Date 04-02-21
The following analyte the agency does not o		port, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
335.4	Distill/CN	Wastewater	Cyanide, Total	
		Wastewater	pH	
SM 4500 H+ B		wasiewaiei	рп	

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Method	Method Description	Protocol	Laboratory
3260C	Volatile Organic Compounds by GC/MS	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
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

Job ID: 480-173207-1

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Lab Sample ID **Client Sample ID** Matrix Collected Received Asset ID Wastewater 480-173207-1 Post-Carbon 07/31/20 14:10 07/31/20 14:55 480-173207-2 Pre-Carbon Wastewater 07/31/20 14:15 07/31/20 14:55 480-173207-3 **OUTSIDE SUMP** Water 07/31/20 14:00 07/31/20 14:55

Job ID: 480-173207-1

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Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

8/14/2020

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler Peter	Zaffra	M	Lat Jo		n, Orl	ette :	3					Carrier Tra	acking N	No(s):			COC No: 480-148764-28	3090.1
Client Contact: Thomas Palmer	Phone:	553	-5129	E-N Or	Mail: lette.	Johns	son@	Eur	ofinse	et.co	m							Page: Page 1 of 1	
Company: Groundwater & Environmental Services Inc										An	alys	is Re	questec	1				Job #:	
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requeste	d:			6			T		T	Ť		İ		T			Preservation C	odes:
City: Williamsville State, Zip: NY, 14221	TAT Requested (da	ys):																	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3
Phone: 518-402-9662(Tel)	PO#: CallOut ID 1360 WO#:	76			No.							480	-173207	Chain	of Cu	stody		id	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone
tpalmer@gesonline.com Project Name:	Project #:				es or	or No)					1	1	1 1	1	1 1	1	10	K - EDTA	V - MCAA W - pH 4-5
Gastown WWTP #915171 - Monthly Event Desc: Monthly	48002525					(Yes o		1	(Stars			=					ntair	L - EDA	Z - other (specify)
Site: New York	SSOW#:				Sample (Yes or No.)) dsi	. Total	_	P-51	804	Mg, K, Na	y, Tot					of co	Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oi	eld Filtered	rform MS/N	335.4 - Cyanide, Total	SM4500_H+ - pH	8260C - TCL + CP-51 (Stars)	300.0_28D - CI, SO4	200.7 - Ca, Mg, I	310.2 - Alkalinity, Total					Total Number of container	Special	Instructions/Note:
Sample identification	Sample Date			ation Code		* 1		Plate Co.	200-200-2	cactions		7					X	Special	mstructions/Note.
Post-Carbon 2	2/31/20	1410	4	Water			X	X	X										
Pre-Carbon	7/31/20	1415	(2)	Water					X	X	X	X							
Outside Sump	7/3//20	1400	a	Water					X			1							
					+	+						+	++	+	H	+			
					+	+							+	\dagger		+			
					1														
	_		-		-								1	-		+			
					+	+						+	++	-		+			
					1									+					
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Unk	nown	Radiologic	al]	\Box_R	eturi	n To	Clier	nt		Disposa			s are r	7	ned longer tha	n 1 month) Months
Empty Kit Relinquished by:		Date:			T	Time:					0	1		ethod o	f Shipme	ent:			
Rélinquished.by:	Date/Time:	1.1	55	Company	35		(lived I	N	le	We	de			Date	3/	12	0 145	5 Company
Relipquished by	Date/Time:			Company			Rece	eived I	by:						Date/	ime:			Company
Relinquished by:	Date/Time:			Company			Rece			1	1				Date/	Γime:			Company
Custody Seal No.: Δ Yes Δ No							Cool	er Te	mpera	ture(s	s) °C ar	d Othe	r Remarks:						Ver: 01/16/2019















Client: New York State D.E.C.

Job Number: 480-173207-1

Login Number: 173207

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

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 (Excluding tests with immediate HTs)	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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-173998-1

Client Project/Site: Gastown WWTP #915171

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Joseph V. Gracomagge

Authorized for release by: 9/2/2020 1:02:36 PM Joe Giacomazza, Project Manager I joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically

Joseph V. Gireomagger

Joe Giacomazza Project Manager I 9/2/2020 1:02:36 PM Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-173998-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier Qualifier Description

* LCS or LCSD is outside acceptance limits.

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

General Chemistry

ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

F1 MS and/or MSD recovery exceeds control limits.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Buffalo

9/2/2020

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Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-173998-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-173998-1

Comments

No additional comments.

Receipt

The samples were received on 8/19/2020 9:37 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-173998-2), Outside Sump (480-173998-3), (480-173998-A-3 MS) and (480-173998-A-3 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-547034 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-173998-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 608.3: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-545952 and analytical batch 480-546196 recovered outside control limits for several analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 420.4: The continuing calibration verification (CCV) associated with batch 480-547209 recovered above the upper control limit for Phenolics, Total Recoverable. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 9040C, 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-173998-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-545952.

Job ID: 480-173998-1

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Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-173998-1

Job ID: 480-173998-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 08/19/20 08:45 Date Received: 08/19/20 09:37 Lab Sample ID: 480-173998-1

Matrix: Wastewater

Analyte	Result Qualifier	RL _	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			08/20/20 17:37	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			08/20/20 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			08/20/20 17:37	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			08/20/20 17:37	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			08/20/20 17:37	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			08/20/20 17:37	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			08/20/20 17:37	1
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			08/20/20 17:37	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			08/20/20 17:37	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			08/20/20 17:37	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			08/20/20 17:37	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			08/20/20 17:37	1
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			08/20/20 17:37	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			08/20/20 17:37	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			08/20/20 17:37	1
2-Butanone (MEK)	ND	10	1.3	ug/L			08/20/20 17:37	1
2-Hexanone	ND	5.0	1.2	ug/L			08/20/20 17:37	1
4-Isopropyltoluene	ND	1.0	0.31	ug/L			08/20/20 17:37	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			08/20/20 17:37	1
Acetone	3.2 J	10		ug/L			08/20/20 17:37	1
Benzene	ND	1.0		ug/L			08/20/20 17:37	1
Bromoform	ND	1.0		ug/L			08/20/20 17:37	1
Bromomethane	ND	1.0		ug/L			08/20/20 17:37	1
Carbon disulfide	ND	1.0		ug/L			08/20/20 17:37	1
Carbon tetrachloride	ND	1.0		ug/L			08/20/20 17:37	1
Chlorobenzene	ND	1.0		ug/L			08/20/20 17:37	1
Dibromochloromethane	ND	1.0		ug/L			08/20/20 17:37	1
Chloroethane	ND	1.0		ug/L			08/20/20 17:37	1
Chloroform	ND	1.0		ug/L			08/20/20 17:37	1
Chloromethane	ND	1.0		ug/L			08/20/20 17:37	1
cis-1,2-Dichloroethene	ND	1.0		ug/L			08/20/20 17:37	1
Cyclohexane	ND	1.0		ug/L			08/20/20 17:37	1
Bromodichloromethane	ND	1.0		ug/L			08/20/20 17:37	1
Dichlorodifluoromethane	ND	1.0		ug/L			08/20/20 17:37	· · · · · · · · · 1
Ethylbenzene	ND	1.0		ug/L			08/20/20 17:37	1
1,2-Dibromoethane	ND	1.0		ug/L			08/20/20 17:37	1
Isopropylbenzene	ND	1.0		ug/L			08/20/20 17:37	 1
Methyl acetate	ND	2.5		ug/L			08/20/20 17:37	1
Methyl tert-butyl ether	ND	1.0		ug/L			08/20/20 17:37	1
Methylcyclohexane	ND	1.0		ug/L			08/20/20 17:37	· · · · · · · · · 1
Methylene Chloride	ND	1.0		ug/L			08/20/20 17:37	
m,p-Xylene	ND	2.0		ug/L			08/20/20 17:37	1
Naphthalene	ND	1.0		ug/L			08/20/20 17:37	· · · · · · · · · · · · · · · · · · ·
n-Butylbenzene	ND	1.0		ug/L ug/L			08/20/20 17:37	1
N-Propylbenzene	ND	1.0		ug/L ug/L			08/20/20 17:37	1
o-Xylene	ND	1.0		ug/L ug/L			08/20/20 17:37	' 1
sec-Butylbenzene	ND ND	1.0		ug/L ug/L			08/20/20 17:37	1
Tetrachloroethene	ND ND	1.0					08/20/20 17:37	
Toluene	ND	1.0		ug/L ug/L			08/20/20 17:37	1 1

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 08/19/20 08:45 Date Received: 08/19/20 09:37

Lab Sample ID: 480-173998-1

Matrix: Wastewater

Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND ND	1.0	0.90	ug/L			08/20/20 17:37	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			08/20/20 17:37	1
Trichloroethene	ND	1.0	0.46	ug/L			08/20/20 17:37	1
Trichlorofluoromethane	ND	1.0	0.88	ug/L			08/20/20 17:37	1
Vinyl chloride	ND	1.0	0.90	ug/L			08/20/20 17:37	1
Xylenes, Total	ND	2.0	0.66	ug/L			08/20/20 17:37	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			08/20/20 17:37	1
Styrene	ND	1.0	0.73	ug/L			08/20/20 17:37	1
tert-Butylbenzene	ND	1.0	0.81	ug/L			08/20/20 17:37	1
0	0/5							

Surrogate	%Recovery	Qualifier Lim	iits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	77 -	120		08/20/20 17:37	1
4-Bromofluorobenzene (Surr)	86	73 -	120		08/20/20 17:37	1
Toluene-d8 (Surr)	89	80 -	120		08/20/20 17:37	1
Dibromofluoromethane (Surr)	114	75 -	123		08/20/20 17:37	1

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		08/21/20 14:48	08/27/20 13:08	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/21/20 14:48	08/27/20 13:08	1
Acenaphthene	ND		5.0	0.41	ug/L		08/21/20 14:48	08/27/20 13:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/21/20 14:48	08/27/20 13:08	1
Anthracene	ND		5.0	0.28	ug/L		08/21/20 14:48	08/27/20 13:08	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/21/20 14:48	08/27/20 13:08	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/21/20 14:48	08/27/20 13:08	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/21/20 14:48	08/27/20 13:08	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/21/20 14:48	08/27/20 13:08	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/21/20 14:48	08/27/20 13:08	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/21/20 14:48	08/27/20 13:08	1
Carbazole	ND		5.0	0.30	ug/L		08/21/20 14:48	08/27/20 13:08	1
Chrysene	ND		5.0	0.33	ug/L		08/21/20 14:48	08/27/20 13:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/21/20 14:48	08/27/20 13:08	1
Dibenzofuran	ND		10	0.51	ug/L		08/21/20 14:48	08/27/20 13:08	1
Fluoranthene	ND		5.0	0.40	ug/L		08/21/20 14:48	08/27/20 13:08	1
Fluorene	ND		5.0	0.36	ug/L		08/21/20 14:48	08/27/20 13:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/21/20 14:48	08/27/20 13:08	1
Naphthalene	ND		5.0	0.76	ug/L		08/21/20 14:48	08/27/20 13:08	1
Pentachlorophenol	ND		10	2.2	ug/L		08/21/20 14:48	08/27/20 13:08	1
Phenanthrene	ND		5.0	0.44	ug/L		08/21/20 14:48	08/27/20 13:08	1
Phenol	ND		5.0	0.39	ug/L		08/21/20 14:48	08/27/20 13:08	1
Pyrene	ND		5.0	0.34	ug/L		08/21/20 14:48	08/27/20 13:08	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81	46 - 120	08/21/20 14:48	08/27/20 13:08	1
2-Fluorobiphenyl	90	48 - 120	08/21/20 14:48	08/27/20 13:08	1
p-Terphenyl-d14	70	60 - 148	08/21/20 14:48	08/27/20 13:08	1
Phenol-d5	45	22 - 120	08/21/20 14:48	08/27/20 13:08	1
2-Fluorophenol	63	35 - 120	08/21/20 14:48	08/27/20 13:08	1
2,4,6-Tribromophenol	77	41 - 120	08/21/20 14:48	08/27/20 13:08	1

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Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2 Lab Sample ID: 480-173998-1

Matrix: Wastewater

Date Collected: 08/19/20 08:45 Date Received: 08/19/20 09:37

Total Dissolved Solids

Total Suspended Solids

Temperature

Biochemical Oxygen Demand

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0078	ug/L		08/20/20 07:51	08/21/20 13:31	1
alpha-BHC	ND		0.048	0.0074	ug/L		08/20/20 07:51	08/21/20 13:31	1
beta-BHC	ND	*	0.048	0.024	ug/L		08/20/20 07:51	08/21/20 13:31	1
delta-BHC	ND	*	0.048	0.0096	ug/L		08/20/20 07:51	08/21/20 13:31	1
gamma-BHC (Lindane)	ND		0.048	0.0077	ug/L		08/20/20 07:51	08/21/20 13:31	1
Chlordane (technical)	ND		0.48	0.28	ug/L		08/20/20 07:51	08/21/20 13:31	1
4,4'-DDD	ND	*	0.048	0.0088	ug/L		08/20/20 07:51	08/21/20 13:31	1
4,4'-DDE	ND		0.048	0.011	ug/L		08/20/20 07:51	08/21/20 13:31	1
4,4'-DDT	ND	*	0.048	0.011	ug/L		08/20/20 07:51	08/21/20 13:31	1
Dieldrin	ND	*	0.048	0.0094	ug/L		08/20/20 07:51	08/21/20 13:31	1
Endosulfan I	ND	*	0.048	0.011	ug/L		08/20/20 07:51	08/21/20 13:31	1
Endosulfan II	ND		0.048	0.012	ug/L		08/20/20 07:51	08/21/20 13:31	1
Endosulfan sulfate	ND	*	0.048	0.015	ug/L		08/20/20 07:51	08/21/20 13:31	1
Endrin	ND		0.048	0.013	ug/L		08/20/20 07:51	08/21/20 13:31	1
Endrin aldehyde	ND		0.048	0.016	ug/L		08/20/20 07:51	08/21/20 13:31	1
Heptachlor	ND		0.048	0.0082	ug/L		08/20/20 07:51	08/21/20 13:31	1
Heptachlor epoxide	ND	*	0.048	0.0071	ug/L		08/20/20 07:51	08/21/20 13:31	1
Toxaphene	ND		0.48	0.12	ug/L		08/20/20 07:51	08/21/20 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		23 - 120				08/20/20 07:51	08/21/20 13:31	1
Tetrachloro-m-xylene	100		44 - 120				08/20/20 07:51	08/21/20 13:31	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.7	J	4.8	1.4	mg/L		08/24/20 17:18	08/24/20 19:52	1
Cyanide, Total	0.16		0.010	0.0050	mg/L		08/21/20 11:36	08/22/20 12:22	1
Phenolics, Total Recoverable	ND	^ F1	0.010	0.0035	mg/L			08/28/20 03:10	1

10.0

2.0

RL

4.0

0.1

0.001

4.0 mg/L

2.0 mg/L

RL Unit

4.0 mg/L

0.001 Degrees C

0.1 SU

735

ND

ND

7.1 HF

10.5 HF

Result Qualifier

08/20/20 17:47

08/20/20 02:15

Analyzed

08/20/20 14:37

08/26/20 14:02

08/26/20 14:02

Dil Fac

Prepared

2

3

5

9

10

4 -

9/2/2020

Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 08/19/20 08:55 Date Received: 08/19/20 09:37 Lab Sample ID: 480-173998-2

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		<u>D</u> P	repared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	80	66	ug/L			08/20/20 18:01	8
1,1,2,2-Tetrachloroethane	ND	80	17	ug/L			08/20/20 18:01	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	80	25	ug/L			08/20/20 18:01	8
1,1,2-Trichloroethane	ND	80	18	ug/L			08/20/20 18:01	8
1,1-Dichloroethane	ND	80	30	ug/L			08/20/20 18:01	8
1,1-Dichloroethene	ND	80	23	ug/L			08/20/20 18:01	8
1,2,4-Trichlorobenzene	ND	80	33	ug/L			08/20/20 18:01	8
1,2,4-Trimethylbenzene	ND	80	60	ug/L			08/20/20 18:01	8
1,2-Dibromo-3-Chloropropane	ND	80	31	ug/L			08/20/20 18:01	8
1,2-Dichlorobenzene	ND	80	63	ug/L			08/20/20 18:01	8
1,2-Dichloroethane	ND	80		ug/L			08/20/20 18:01	8
1,2-Dichloropropane	ND	80		ug/L			08/20/20 18:01	8
1,3,5-Trimethylbenzene	ND	80		ug/L			08/20/20 18:01	
1,3-Dichlorobenzene	ND	80		ug/L			08/20/20 18:01	8
1,4-Dichlorobenzene	ND	80		ug/L			08/20/20 18:01	8
2-Butanone (MEK)	ND	800		ug/L			08/20/20 18:01	
2-Hexanone	ND	400		ug/L			08/20/20 18:01	8
4-Isopropyltoluene	ND	80		ug/L			08/20/20 18:01	8
4-Methyl-2-pentanone (MIBK)	ND	400		ug/L			08/20/20 18:01	
, ,	290 J	800		ug/L ug/L			08/20/20 18:01	8
Acetone		80		-				8
Benzene	2200			ug/L			08/20/20 18:01	
Bromoform	ND	80		ug/L			08/20/20 18:01	8
Bromomethane	ND	80		ug/L			08/20/20 18:01	3
Carbon disulfide	ND	80		ug/L			08/20/20 18:01	
Carbon tetrachloride	ND	80		ug/L			08/20/20 18:01	
Chlorobenzene	ND	80		ug/L			08/20/20 18:01	
Dibromochloromethane	ND	80		ug/L			08/20/20 18:01	
Chloroethane	ND	80		ug/L			08/20/20 18:01	8
Chloroform	72 J	80		ug/L			08/20/20 18:01	8
Chloromethane	ND	80		ug/L			08/20/20 18:01	
sis-1,2-Dichloroethene	ND	80	65	ug/L			08/20/20 18:01	
Cyclohexane	ND	80	14	ug/L			08/20/20 18:01	
Bromodichloromethane	ND	80	31	ug/L			08/20/20 18:01	
Dichlorodifluoromethane	ND	80	54	ug/L			08/20/20 18:01	
Ethylbenzene	81	80	59	ug/L			08/20/20 18:01	
1,2-Dibromoethane	ND	80	58	ug/L			08/20/20 18:01	,
sopropylbenzene	ND	80	63	ug/L			08/20/20 18:01	
Methyl acetate	ND	200	100	ug/L			08/20/20 18:01	
Methyl tert-butyl ether	ND	80		ug/L			08/20/20 18:01	
Methylcyclohexane	ND	80		ug/L			08/20/20 18:01	;
Nethylene Chloride	ND	80		ug/L			08/20/20 18:01	
n,p-Xylene	ND	160		ug/L			08/20/20 18:01	
laphthalene	70 J	80		ug/L			08/20/20 18:01	
n-Butylbenzene	ND	80		ug/L			08/20/20 18:01	
N-Propylbenzene	ND	80		ug/L			08/20/20 18:01	
o-Xylene	ND	80		ug/L			08/20/20 18:01	
sec-Butylbenzene	ND ND	80		-			08/20/20 18:01	
•				ug/L				;
Tetrachloroethene Foluene	ND 130	80 80		ug/L ug/L			08/20/20 18:01 08/20/20 18:01	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte

Calcium

Alkalinity, Total

Lab Sample ID: 480-173998-2

Matrix: Wastewater

Analyzed

08/24/20 17:47

Prepared

09/01/20 15:52 09/01/20 23:38

Date Collected: 08/19/20 08:55 Date Received: 08/19/20 09:37

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		80	72	ug/L			08/20/20 18:01	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			08/20/20 18:01	80
Trichloroethene	ND		80	37	ug/L			08/20/20 18:01	80
Trichlorofluoromethane	ND		80	70	ug/L			08/20/20 18:01	80
Vinyl chloride	ND		80	72	ug/L			08/20/20 18:01	80
Xylenes, Total	ND		160	53	ug/L			08/20/20 18:01	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			08/20/20 18:01	80
Styrene	ND		80	58	ug/L			08/20/20 18:01	80
tert-Butylbenzene	ND		80	65	ug/L			08/20/20 18:01	80
Surrogate	%Recovery 0	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					08/20/20 18:01	80
4-Bromofluorobenzene (Surr)	94		73 - 120					08/20/20 18:01	80
Toluene-d8 (Surr)	90		80 - 120					08/20/20 18:01	80
Dibromofluoromethane (Surr)	116		75 - 123					08/20/20 18:01	80

Magnesium	21200	200	43.4	ug/L		09/01/20 15:52	09/01/20 23:38	1
Potassium	2090 B	500	100	ug/L		09/01/20 15:52	09/01/20 23:38	1
Sodium	34700	1000	324	ug/L		09/01/20 15:52	09/02/20 10:28	1
General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111	2.5	1.4	mg/L			08/25/20 16:18	5
Sulfato	24.0	10.0	17	ma/l			08/25/20 16:18	5

20.0

RL

500

MDL Unit

100 ug/L

8.0 mg/L

Result Qualifier

67100

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Eurofins TestAmerica, Buffalo

9/2/2020

Dil Fac

Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 08/19/20 09:10
Date Received: 08/19/20 09:37

Lab Sample ID: 480-173998-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		100	82	ug/L		-	08/20/20 18:26	100
1,1,2,2-Tetrachloroethane	ND		100		ug/L			08/20/20 18:26	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100		ug/L			08/20/20 18:26	100
1,1,2-Trichloroethane	ND		100		ug/L			08/20/20 18:26	100
1,1-Dichloroethane	ND		100					08/20/20 18:26	100
1,1-Dichloroethene	ND		100		ug/L			08/20/20 18:26	100
1,2,4-Trichlorobenzene	ND		100		ug/L			08/20/20 18:26	100
1,2,4-Trimethylbenzene	ND		100		ug/L			08/20/20 18:26	100
1,2-Dibromo-3-Chloropropane	ND		100		-			08/20/20 18:26	100
1,2-Dichlorobenzene	ND		100		ug/L			08/20/20 18:26	100
1,2-Dichloroethane	ND		100		ug/L			08/20/20 18:26	100
1,2-Dichloropropane	ND		100		ug/L			08/20/20 18:26	100
1,3,5-Trimethylbenzene	ND		100		ug/L			08/20/20 18:26	100
1,3-Dichlorobenzene	ND		100		ug/L			08/20/20 18:26	100
1,4-Dichlorobenzene	ND		100		ug/L			08/20/20 18:26	100
2-Butanone (MEK)	ND		1000					08/20/20 18:26	100
2-Hexanone	ND		500	120	ug/L			08/20/20 18:26	100
4-Isopropyltoluene	ND		100	31	ug/L			08/20/20 18:26	100
4-Nethyl-2-pentanone (MIBK)	ND		500					08/20/20 18:26	100
Acetone	ND ND		1000					08/20/20 18:26	100
			1000		•			08/20/20 18:26	100
Benzene Bromoform	5800 ND		100		ug/L			08/20/20 18:26	100
	ND ND				ug/L				
Bromomethane	ND ND		100 100		ug/L			08/20/20 18:26	100
Carbon disulfide					ug/L			08/20/20 18:26	100
Carbon tetrachloride	ND		100		ug/L			08/20/20 18:26	100
Chlorobenzene	ND		100		ug/L			08/20/20 18:26	100
Dibromochloromethane	ND		100		ug/L			08/20/20 18:26	100
Chloroethane	ND		100		ug/L			08/20/20 18:26	100
Chloroform	ND		100		ug/L			08/20/20 18:26	100
Chloromethane	ND		100		ug/L			08/20/20 18:26	100
cis-1,2-Dichloroethene	ND		100		ug/L			08/20/20 18:26	100
Cyclohexane	ND		100		ug/L			08/20/20 18:26	100
Bromodichloromethane	ND		100		ug/L			08/20/20 18:26	100
Dichlorodifluoromethane	ND		100		ug/L			08/20/20 18:26	100
Ethylbenzene	210		100		ug/L			08/20/20 18:26	100
1,2-Dibromoethane	ND		100		ug/L			08/20/20 18:26	100
Isopropylbenzene	ND		100		ug/L			08/20/20 18:26	100
Methyl acetate	ND		250		ug/L			08/20/20 18:26	100
Methyl tert-butyl ether	ND		100	16	ug/L			08/20/20 18:26	100
Methylcyclohexane	ND		100	16	ug/L			08/20/20 18:26	100
Methylene Chloride	ND		100	44	ug/L			08/20/20 18:26	100
m,p-Xylene	90	J	200	66	ug/L			08/20/20 18:26	100
Naphthalene	470		100	43	ug/L			08/20/20 18:26	100
n-Butylbenzene	ND		100	64	ug/L			08/20/20 18:26	100
N-Propylbenzene	ND		100	69	ug/L			08/20/20 18:26	100
o-Xylene	ND		100	76	ug/L			08/20/20 18:26	100
sec-Butylbenzene	ND		100	75	ug/L			08/20/20 18:26	100
Tetrachloroethene	ND		100		ug/L			08/20/20 18:26	100
Toluene	510		100		ug/L			08/20/20 18:26	100

Eurofins TestAmerica, Buffalo

9/2/2020

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Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 08/19/20 09:10 Date Received: 08/19/20 09:37 Lab Sample ID: 480-173998-3

Matrix: Water

Method: 8260C - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			08/20/20 18:26	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			08/20/20 18:26	100
Trichloroethene	ND		100	46	ug/L			08/20/20 18:26	100
Trichlorofluoromethane	ND		100	88	ug/L			08/20/20 18:26	100
Vinyl chloride	ND		100	90	ug/L			08/20/20 18:26	100
Xylenes, Total	90	J	200	66	ug/L			08/20/20 18:26	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			08/20/20 18:26	100
Styrene	ND		100	73	ug/L			08/20/20 18:26	100
tert-Butylbenzene	ND		100	81	ug/L			08/20/20 18:26	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					08/20/20 18:26	100
4-Bromofluorobenzene (Surr)	102		73 - 120					08/20/20 18:26	100
Toluene-d8 (Surr)	97		80 - 120					08/20/20 18:26	100
Dibromofluoromethane (Surr)	117		75 - 123					08/20/20 18:26	100

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9/2/2020

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

Client Sample ID: Post-Carbon 2

Date Collected: 08/19/20 08:45 Date Received: 08/19/20 09:37 Lab Sample ID: 480-173998-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			545974	08/20/20 17:37	CRL	TAL BUF
Total/NA	Prep	3510C			546334	08/21/20 14:48	ATG	TAL BUF
Total/NA	Analysis	8270D		1	547034	08/27/20 13:08	JMM	TAL BUF
Total/NA	Prep	3510C			545952	08/20/20 07:51	JMP	TAL BUF
Total/NA	Analysis	608.3		1	546196	08/21/20 13:31	JLS	TAL BUF
Total/NA	Prep	1664B			546569	08/24/20 17:18	T1S	TAL BUF
Total/NA	Analysis	1664B		1	546576	08/24/20 19:52	T1S	TAL BUF
Total/NA	Prep	Distill/CN			546285	08/21/20 11:36	CRK	TAL BUF
Total/NA	Analysis	335.4		1	546373	08/22/20 12:22	CRK	TAL BUF
Total/NA	Analysis	420.4		1	547209	08/28/20 03:10	E1T	TAL BUF
Total/NA	Analysis	SM 2540C		1	546156	08/20/20 17:47	E1T	TAL BUF
Total/NA	Analysis	SM 2540D		1	546108	08/20/20 14:37	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	546946	08/26/20 14:02	DLG	TAL BUF
Total/NA	Analysis	SM 5210B		1	545929	08/20/20 02:15	EY	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 08/19/20 08:55 Date Received: 08/19/20 09:37

Lab Sample ID: 480-173998-2

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	545974	08/20/20 18:01	CRL	TAL BUF
Total/NA	Prep	200.7			547734	09/01/20 15:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	547843	09/01/20 23:38	LMH	TAL BUF
Total/NA	Prep	200.7			547734	09/01/20 15:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	547868	09/02/20 10:28	LMH	TAL BUF
Total/NA	Analysis	300.0		5	546658	08/25/20 16:18	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	546579	08/24/20 17:47	SRW	TAL BUF

Client Sample ID: Outside Sump

Date Collected: 08/19/20 09:10

Date Received: 08/19/20 09:37

Lab Sample	D: 480-173998-3
------------	-----------------

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	545974	08/20/20 18:26	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-173998-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date
New York	N	ELAP	10026	04-02-21
The following analytes the agency does not do	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
the agency does not t	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Wastewater	Analyte Cyanide, Total	
Analysis Method	Prep Method			

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-173998-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
3270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
808.3	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
00.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
664B	HEM and SGT-HEM	1664B	TAL BUF
800.0	Anions, Ion Chromatography	MCAWW	TAL BUF
10.2	Alkalinity	MCAWW	TAL BUF
35.4	Cyanide, Total	MCAWW	TAL BUF
20.4	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
664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
00.7	Preparation, Total Metals	EPA	TAL BUF
510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

1664B = 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.

None = None

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

Eurofins TestAmerica, Buffalo

Sample Summary

Client: New York State D.E.C.

480-173998-3

Project/Site: Gastown WWTP #915171

Outside Sump

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 480-173998-1
 Post-Carbon 2
 Wastewater
 08/19/20 08:45
 08/19/20 09:37

 480-173998-2
 Pre-Carbon
 Wastewater
 08/19/20 08:55
 08/19/20 09:37

08/19/20 09:10 08/19/20 09:37

Water

2

Job ID: 480-173998-1

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



Phone (716) 691-2600 Fax (716) 691-7991														-							THE LEADER IN ENVIR	ONMENTAL TESTING	
Client Information	Sampler:	W	2		Lab I Joh	PM: Inson,	, Orle	ette S	Carrier Tracking No(s):								COC No: 480-123669-28089.1	1					
Client Contact: Thomas Palmer	Phone	io z	87785	7	E-Ma orle		hnso	n@t	estan	nerica	inc.c	com									Page: Page 1 of 1		
Company: Groundwater & Environmental Services Inc										4	nal	ysis	Red	aue	sted	1					Job#:		
Address:	Due Date	Request	ed:					T	T	T	T	T	T		T						Preservation Codes:		
415 Lawrence Bell Drive Suite 6	TAT Reg	uested (d	avan?			-11					1	1										- Hexane	
City: Williamsville		5	1)					-	-	1	1	ł		1	}						C - Zn Acetate O -	None - AsNaO2	
State, Zip: NY, 14221		5 1						1													E - NaHSO4 Q	Na2O4S - Na2SO3	
Phone:	PO#:	LID 420	270			11						1										- Na2S2O3 - H2SO4	
518-402-9662(Tel) Email:	WO#:	t ID 1360	376			- 2		ple		icide	pand		Spilos	1								TSP Dodecahydrate - Acetone	
tpalmer@gesonline.com		roject#	0901691			No) No) Pesti					100	Solids	ed Sc	}						2		- MCAA - pH 4-5	
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Project # 480025					3 S	oly So ger ant TS So of Ger								804			taine	L-EDA Z-	other (specify)			
Site: New York	SSOW#:					James 1			-51 (S	y Polluta	O les	Suspended	tal Di	otal		rease	ਹੰ	Ra a	Total	Total Number of containers	Other:		
New Fork	+-				NA - Anim	- S pe	S/WS	₹ I	+ CP	riorit	L ad	Sus	1.7	ide, T	표	nd G	(MOD	g, K,	inity,	o Je			
				Sample Type	Matrix (w=water,	ilter	m W	Phenolics,	- 70	608_Pest - Priority	a la	2540D - Total	Calco	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD)	200.7 - Ca, Mg, K,	310.2 - Alkalinity, Total	Vum			
		1. D.4.	Sample	(C=comp,	S=solid, O=waste/oil,	eld	erfor	420.4 -	8260C	608_Pe	E240B	340D	340C	15.4	M450	964B	0.00	- 7.00	0.2	otall			
Sample Identification	Samp	ole Date	Time	G=grab)			$\overline{}$	\$550mm 7	A N	THE R. P. LEWIS	N	THE RESERVE	N	В	N	S	N 3	D D	N	5	Special Instr	uctions/Note:	
Post-Carbon 2	8/1	9/20	0845	G	Water	n	n	-		x >		x x	1	-	-	-	IN		i v				
Pre-Carbon	8/11	1/20	082	6	Water	n	n		х		1		T	T			X	X	X				
Outside Sump	7	9/20	0910	6	Water	n	n		X		T		T	T		T							
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po	oison B	Dia.	nown 🗀	Radiological			Sar			osal To Ci		ee ma	y by	Dis	esse	By L	ah	ies a	are r		ined longer than 1 n chive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	ISON B	Ulik	nown	Radiological			Spe					Req	uiren	ents	:	Бу	au			AIC	Sinve For	_ Worth's	
Empty Kit Relinquished by:			Date:			Ti	me:	_			_	_	_	_	Me	thod o	of Ship	ment:	_	-			
Relinquished by:	Date/T	ime:	9 09	137	Company	e		Rece	ived b	y:			_	_			Dat	e/Tim	e:			Company	
Relinquished by:	Date/T	ime:		-	Company	2		Rece	ived b	y:				Date/Time:				e:	_	(Company		
Relinquished by:	Date/T	ime:			Company			Rece	ived b	-	>					_	Dat	te/Tim	1/2	10	1/20 978	Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No								Cool	er Tem	peratu	re(s)	°C and	Other	Rema	arks:	-2). (1		#1		

Ver: 01/16/2019











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Client: New York State D.E.C.

Job Number: 480-173998-1

Login Number: 173998

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

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	3.4 #1 ICE
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 (Excluding tests with immediate HTs)	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.	True	
Chlorine Residual checked.	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-175486-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Wydt Dwat on

Authorized for release by: 10/5/2020 11:59:43 AM Wyatt Watson, Project Management Assistant I Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

Wigott Bloton

Wyatt Watson

Project Management Assistant I

10/5/2020 11:59:43 AM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-175486-1

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Method Summary	14
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Receint Checklists	17

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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**

HE Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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 CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

10/5/2020

Page 4 of 17

Case Narrative

Client: New York State D.E.C.

Job ID: 480-175486-1 Project/Site: Gastown WWTP #915171

Job ID: 480-175486-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-175486-1

Comments

No additional comments.

Receipt

The samples were received on 9/23/2020 9:53 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.8° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-550863 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Post-Carbon 2 (480-175486-1).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-175486-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-175486-2) and Outside Sump (480-175486-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-175486-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 09/23/20 09:00 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			09/24/20 05:37	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			09/24/20 05:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			09/24/20 05:37	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			09/24/20 05:37	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			09/24/20 05:37	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			09/24/20 05:37	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			09/24/20 05:37	1
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			09/24/20 05:37	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			09/24/20 05:37	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			09/24/20 05:37	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			09/24/20 05:37	1
1,2-Dichloropropane	ND	1.0	0.72	-			09/24/20 05:37	1
1,3,5-Trimethylbenzene	ND	1.0	0.77				09/24/20 05:37	1
1,3-Dichlorobenzene	ND	1.0	0.78	-			09/24/20 05:37	1
1,4-Dichlorobenzene	ND	1.0	0.84	-			09/24/20 05:37	1
2-Butanone (MEK)	ND	10		ug/L			09/24/20 05:37	1
2-Hexanone	ND	5.0		ug/L			09/24/20 05:37	1
4-Isopropyltoluene	ND	1.0	0.31	-			09/24/20 05:37	1
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			09/24/20 05:37	1
Acetone	4.0 J	10		ug/L			09/24/20 05:37	1
Benzene	ND	1.0	0.41	_			09/24/20 05:37	1
Bromoform	ND	1.0		ug/L			09/24/20 05:37	1
Bromomethane	ND	1.0		ug/L			09/24/20 05:37	1
Carbon disulfide	ND	1.0	0.19	•			09/24/20 05:37	1
Carbon tetrachloride	ND	1.0	0.27				09/24/20 05:37	
Chlorobenzene	ND	1.0	0.75	-			09/24/20 05:37	1
Dibromochloromethane	ND	1.0		ug/L			09/24/20 05:37	1
Chloroethane	ND	1.0		ug/L			09/24/20 05:37	1
Chloroform	ND	1.0	0.34	-			09/24/20 05:37	1
Chloromethane	ND	1.0	0.35	-			09/24/20 05:37	1
cis-1,2-Dichloroethene	ND	1.0	0.81				09/24/20 05:37	· 1
Cyclohexane	ND	1.0	0.18	-			09/24/20 05:37	1
Bromodichloromethane	ND	1.0	0.39	-			09/24/20 05:37	
Dichlorodifluoromethane	ND	1.0	0.68				09/24/20 05:37	
Ethylbenzene	ND	1.0	0.74	-			09/24/20 05:37	1
1,2-Dibromoethane	ND	1.0	0.73	-			09/24/20 05:37	1
Isopropylbenzene	ND	1.0	0.79				09/24/20 05:37	
Methyl acetate	ND	2.5		ug/L			09/24/20 05:37	1
Methyl tert-butyl ether	ND ND	1.0		ug/L ug/L			09/24/20 05:37	1
Methylcyclohexane	ND	1.0		ug/L			09/24/20 05:37	
Methylene Chloride	ND	1.0		ug/L			09/24/20 05:37	1
m,p-Xylene	ND ND	2.0		ug/L ug/L			09/24/20 05:37	1
				ug/L ug/L				
Naphthalene	ND ND	1.0		-			09/24/20 05:37	1
n-Butylbenzene	ND ND	1.0		ug/L			09/24/20 05:37	1
N-Propylbenzene	ND	1.0		ug/L			09/24/20 05:37	1
o-Xylene	ND ND	1.0		ug/L			09/24/20 05:37	1
sec-Butylbenzene	ND ND	1.0		ug/L			09/24/20 05:37	1
Tetrachloroethene	ND	1.0		ug/L ug/L			09/24/20 05:37 09/24/20 05:37	1

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 09/23/20 09:00 Date Received: 09/23/20 09:53

Lab Sample ID: 480-175486-1

Matrix: Wastewater

Method: 8260C - Volatile Orga	nic Compounds by GC	/MS (Contin	ued)
Analyte	Result Qualifier	RL	MDI

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene		1.0	0.90	ug/L			09/24/20 05:37	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			09/24/20 05:37	1
Trichloroethene	ND	1.0	0.46	ug/L			09/24/20 05:37	1
Trichlorofluoromethane	ND	1.0	0.88	ug/L			09/24/20 05:37	1
Vinyl chloride	ND	1.0	0.90	ug/L			09/24/20 05:37	1
Xylenes, Total	ND	2.0	0.66	ug/L			09/24/20 05:37	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			09/24/20 05:37	1
Styrene	ND	1.0	0.73	ug/L			09/24/20 05:37	1
tert-Butylbenzene	ND	1.0	0.81	ug/L			09/24/20 05:37	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120	_		09/24/20 05:37	1
4-Bromofluorobenzene (Surr)	97		73 - 120			09/24/20 05:37	1
Toluene-d8 (Surr)	99		80 - 120			09/24/20 05:37	1
Dibromofluoromethane (Surr)	99		75 - 123			09/24/20 05:37	1

General Chemistry

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13		0.010	0.0050	mg/L		09/23/20 19:38	09/24/20 15:47	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1	0.1	SU			09/24/20 19:25	1
Temperature	20.3		0.001		Degrees C			09/24/20 19:25	

Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 09/23/20 09:10

Lab Sample ID: 480-175486-2

Matrix: Wastewater

Date Received: 09/23/20 09:53

nalyte	Result Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil F
,1,1-Trichloroethane	ND	4.0	3.3	ug/L			09/24/20 16:43	
,1,2,2-Tetrachloroethane	ND	4.0	0.84	ug/L			09/24/20 16:43	
,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	1.2	ug/L			09/24/20 16:43	
,1,2-Trichloroethane	ND	4.0	0.92	ug/L			09/24/20 16:43	
,1-Dichloroethane	ND	4.0	1.5	ug/L			09/24/20 16:43	
,1-Dichloroethene	ND	4.0	1.2	ug/L			09/24/20 16:43	
,2,4-Trichlorobenzene	ND	4.0	1.6	ug/L			09/24/20 16:43	
,2,4-Trimethylbenzene	ND	4.0	3.0	ug/L			09/24/20 16:43	
,2-Dibromo-3-Chloropropane	ND	4.0	1.6	ug/L			09/24/20 16:43	
,2-Dichlorobenzene	ND	4.0	3.2	ug/L			09/24/20 16:43	
,2-Dichloroethane	ND	4.0		ug/L			09/24/20 16:43	
,2-Dichloropropane	ND	4.0	2.9	ug/L			09/24/20 16:43	
,3,5-Trimethylbenzene	ND	4.0		ug/L			09/24/20 16:43	
,3-Dichlorobenzene	ND	4.0		ug/L			09/24/20 16:43	
,4-Dichlorobenzene	ND	4.0		ug/L			09/24/20 16:43	
-Butanone (MEK)	9.3 J	40		ug/L			09/24/20 16:43	
-Hexanone	ND	20		ug/L			09/24/20 16:43	
-Isopropyltoluene	ND	4.0		ug/L			09/24/20 16:43	
-Methyl-2-pentanone (MIBK)	ND	20		ug/L			09/24/20 16:43	
acetone	37 J	40		ug/L			09/24/20 16:43	
romoform	ND	4.0		ug/L			09/24/20 16:43	
romomethane	ND	4.0		ug/L			09/24/20 16:43	
Carbon disulfide	3.1 J	4.0		ug/L			09/24/20 16:43	
Carbon tetrachloride	ND	4.0		ug/L			09/24/20 16:43	
Chlorobenzene	ND	4.0		ug/L			09/24/20 16:43	
Dibromochloromethane	ND ND	4.0		ug/L			09/24/20 16:43	
Chloroethane	ND	4.0		ug/L			09/24/20 16:43	
Chloroform				ug/L			09/24/20 16:43	
	230	4.0		-				
chloromethane	9.1	4.0		ug/L			09/24/20 16:43	
is-1,2-Dichloroethene	ND	4.0		ug/L			09/24/20 16:43	
Cyclohexane	ND	4.0		ug/L			09/24/20 16:43	
Bromodichloromethane	9.2	4.0		ug/L			09/24/20 16:43	
ichlorodifluoromethane	ND	4.0		ug/L			09/24/20 16:43	
thylbenzene	57	4.0		ug/L			09/24/20 16:43	
,2-Dibromoethane	ND	4.0		ug/L			09/24/20 16:43	
sopropylbenzene	ND	4.0		ug/L			09/24/20 16:43	
Methyl acetate	ND	10		ug/L			09/24/20 16:43	
lethyl tert-butyl ether	ND	4.0		ug/L			09/24/20 16:43	
1ethylcyclohexane	ND	4.0		ug/L			09/24/20 16:43	
lethylene Chloride	4.3	4.0		ug/L			09/24/20 16:43	
n,p-Xylene	18	8.0		ug/L			09/24/20 16:43	
laphthalene	89	4.0		ug/L			09/24/20 16:43	
-Butylbenzene	ND	4.0		ug/L			09/24/20 16:43	
I-Propylbenzene	ND	4.0		ug/L			09/24/20 16:43	
-Xylene	13	4.0	3.0	ug/L			09/24/20 16:43	
ec-Butylbenzene	ND	4.0		ug/L			09/24/20 16:43	
etrachloroethene	ND	4.0	1.4	ug/L			09/24/20 16:43	
oluene	71	4.0	2.0	ug/L			09/24/20 16:43	

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 09/23/20 09:10 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-2

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	MD		4.0	1.5	ug/L			09/24/20 16:43	4
Trichloroethene	ND		4.0	1.8	ug/L			09/24/20 16:43	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			09/24/20 16:43	4
Vinyl chloride	ND		4.0	3.6	ug/L			09/24/20 16:43	4
Xylenes, Total	31		8.0	2.6	ug/L			09/24/20 16:43	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			09/24/20 16:43	4
Styrene	ND		4.0	2.9	ug/L			09/24/20 16:43	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			09/24/20 16:43	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					09/24/20 16:43	4
4-Bromofluorobenzene (Surr)	95		73 - 120					09/24/20 16:43	4
Toluene-d8 (Surr)	93		80 - 120					09/24/20 16:43	4
Dibromofluoromethane (Surr)	104		75 - 123					09/24/20 16:43	4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	960		20	8.2	ug/L			09/25/20 12:06	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					09/25/20 12:06	20
4-Bromofluorobenzene (Surr)	104		73 - 120					09/25/20 12:06	20
Toluene-d8 (Surr)	99		80 - 120					09/25/20 12:06	20
Dibromofluoromethane (Surr)	105		75 - 123					09/25/20 12:06	20

Method: 200.7 Rev 4.4	- Metals (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	103000	500	100	ug/L		09/24/20 09:00	09/24/20 16:08	1
Magnesium	36600	200	43.4	ug/L		09/24/20 09:00	09/24/20 16:08	1
Potassium	3260	500	100	ug/L		09/24/20 09:00	09/24/20 16:08	1
Sodium	64000	1000	324	ug/L		09/24/20 09:00	09/24/20 16:08	1

General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162	2.5	1.4	mg/L			10/01/20 18:55	5
Sulfate	77.0	10.0	1.7	mg/L			10/01/20 18:55	5
Alkalinity, Total	288	40.0	16.0	mg/L			09/23/20 19:57	4

Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 09/23/20 09:15 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-3

Matrix: Water

Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		80	66	ug/L			09/25/20 12:30	8
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			09/25/20 12:30	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			09/25/20 12:30	8
1,1,2-Trichloroethane	ND		80	18	ug/L			09/25/20 12:30	8
1,1-Dichloroethane	ND		80	30	ug/L			09/25/20 12:30	8
1,1-Dichloroethene	ND		80	23	ug/L			09/25/20 12:30	8
1,2,4-Trichlorobenzene	ND		80	33	ug/L			09/25/20 12:30	8
1,2,4-Trimethylbenzene	ND		80	60	ug/L			09/25/20 12:30	8
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			09/25/20 12:30	8
1,2-Dichlorobenzene	ND		80	63	ug/L			09/25/20 12:30	8
1,2-Dichloroethane	ND		80	17	ug/L			09/25/20 12:30	8
1,2-Dichloropropane	ND		80		ug/L			09/25/20 12:30	8
1,3,5-Trimethylbenzene	ND		80		ug/L			09/25/20 12:30	8
1,3-Dichlorobenzene	ND		80		ug/L			09/25/20 12:30	8
1,4-Dichlorobenzene	ND		80		ug/L			09/25/20 12:30	8
2-Butanone (MEK)	ND		800		ug/L			09/25/20 12:30	8
2-Hexanone	ND		400		_			09/25/20 12:30	8
4-Isopropyltoluene	ND		80		ug/L			09/25/20 12:30	8
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			09/25/20 12:30	8
Acetone	ND		800		ug/L			09/25/20 12:30	8
Benzene	3800		80		ug/L			09/25/20 12:30	8
Bromoform	ND		80		ug/L			09/25/20 12:30	8
Bromomethane	ND		80		ug/L			09/25/20 12:30	8
Carbon disulfide	ND		80		ug/L			09/25/20 12:30	8
Carbon tetrachloride	ND		80		ug/L			09/25/20 12:30	8
Chlorobenzene	ND		80		ug/L			09/25/20 12:30	8
Dibromochloromethane	ND		80		ug/L			09/25/20 12:30	8
Chloroethane	ND		80		ug/L			09/25/20 12:30	8
Chloroform	53	1	80		ug/L			09/25/20 12:30	8
Chloromethane	ND	3	80		ug/L			09/25/20 12:30	8
cis-1,2-Dichloroethene	ND		80		ug/L			09/25/20 12:30	8
Cyclohexane	ND		80		ug/L			09/25/20 12:30	8
Bromodichloromethane	ND		80		ug/L			09/25/20 12:30	8
Dichlorodifluoromethane	ND		80		ug/L ug/L			09/25/20 12:30	8
	220		80		ug/L ug/L			09/25/20 12:30	8
Ethylbenzene 1.2 Dibromoothana								09/25/20 12:30	
1,2-Dibromoethane	ND ND		80		ug/L ug/L				8 8
Isopropylbenzene					_			09/25/20 12:30	
Methyl acetate	ND		200		ug/L			09/25/20 12:30	8
Methyl tert-butyl ether	ND		80		ug/L			09/25/20 12:30	8
Methylcyclohexane	ND		80		ug/L			09/25/20 12:30	8
Methylene Chloride	67		80		ug/L			09/25/20 12:30	8
m,p-Xylene	89	J	160		ug/L			09/25/20 12:30	
Naphthalene	290		80		ug/L			09/25/20 12:30	8
n-Butylbenzene	ND		80		ug/L			09/25/20 12:30	8
N-Propylbenzene	ND		80		ug/L			09/25/20 12:30	8
o-Xylene	ND		80		ug/L			09/25/20 12:30	8
sec-Butylbenzene	ND		80		ug/L			09/25/20 12:30	8
Tetrachloroethene	ND		80		ug/L ug/L			09/25/20 12:30 09/25/20 12:30	8

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Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 09/23/20 09:15 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		80	72	ug/L			09/25/20 12:30	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			09/25/20 12:30	80
Trichloroethene	ND		80	37	ug/L			09/25/20 12:30	80
Trichlorofluoromethane	ND		80	70	ug/L			09/25/20 12:30	80
Vinyl chloride	ND		80	72	ug/L			09/25/20 12:30	80
Xylenes, Total	89	J	160	53	ug/L			09/25/20 12:30	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			09/25/20 12:30	80
Styrene	ND		80	58	ug/L			09/25/20 12:30	80
tert-Butylbenzene	ND		80	65	ug/L			09/25/20 12:30	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					09/25/20 12:30	80
4-Bromofluorobenzene (Surr)	103		73 - 120					09/25/20 12:30	80
Toluene-d8 (Surr)	97		80 - 120					09/25/20 12:30	80
Dibromofluoromethane (Surr)	107		75 - 123					09/25/20 12:30	80

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 09/23/20 09:00 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			550863	09/24/20 05:37	RJF	TAL BUF
Total/NA	Prep	Distill/CN			550936	09/23/20 19:38	E1T	TAL BUF
Total/NA	Analysis	335.4		1	551117	09/24/20 15:47	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	551186	09/24/20 19:25	BEF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 09/23/20 09:10 Date Received: 09/23/20 09:53 Lab Sample ID: 480-175486-2

Matrix: Wastewater

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dilution Factor 4	Batch Number 550986	Prepared or Analyzed 09/24/20 16:43	Analyst	Lab TAL BUF
Total/NA	Analysis	8260C	DL	20	551204	09/25/20 12:06		TAL BUF
Total/NA	Prep	200.7			550905	09/24/20 09:00	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	551241	09/24/20 16:08	AMH	TAL BUF
Total/NA	Analysis	300.0		5	552134	10/01/20 18:55	RJS	TAL BUF
Total/NA	Analysis	310.2		4	550951	09/23/20 19:57	SRW	TAL BUF

Client Sample ID: Outside Sump

Date Collected: 09/23/20 09:15

Date Received: 09/23/20 09:53

Lab Sample ID: 480-175486-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	551204	09/25/20 12:30	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-175486-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
New York	N	ELAP	10026	04-01-21
The following analytes	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
0 ,				
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Wastewater	Analyte Cyanide, Total	
Analysis Method	Prep Method			

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-175486-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

Eurofins TestAmerica, Buffalo

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Lab Samp 480-17548		Client Sample ID Post-Carbon 2	Matrix Wastewater	Collected 09/23/20 09:00	Received 09/23/20 09:53	Asset ID
480-17548	86-2	Pre-Carbon	Wastewater	09/23/20 09:10	09/23/20 09:53	
480-17548	86-3	Outside Sump	Water	09/23/20 09:15	09/23/20 09:53	

Job ID: 480-175486-1

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



Phone (716) 691-2600 Fax (716) 691-7991 Carrier Tracking No(s): WR Client Information Johnson, Orlette S 480-123660-28090.1 Phone: 800 287 7857 Client Contact: E-Mail: Page: Thomas Palmer orlette.johnson@testamericainc.com Page 1 of 1 Company Groundwater & Environmental Services Inc **Analysis Requested** Address: **Due Date Requested:** Preservation Codes: 415 Lawrence Bell Drive Suite 6 A - HCL TAT Requested (days): B - NaOH N - None Williamsville C - Zn Acetate O - AsNaO2 510 D - Nitric Acid P - Na204S State, Zip: E - NaHSO4 Q - Na2SO3 NY, 14221 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 518-402-9662(Tel) CallOut ID 136076 T - TSP Dodecahydrate H - Ascorbic Acid WO #: 1 - Ice U - Acetone tpalmer@gesonline.com J - DI Water V - MCAA K - EDTA W - pH 4-5 Project #: 8260C - TCL + CP-51 (Stars) L-EDA Z - other (specify) Gastown WWTP #915171 - Monthly Event Desc: Monthly 48002525 Total SSOW#: Other: 200.7 - Ca, Mg, K, Na of New York 310.2 - Alkalinity, Total Number Matrix Sample (w=water, Type S=solid. Sample (C=comp, O=waste/oil, Sample Identification Sample Date Time G=grab) BT=Tissue, A=Air) Special Instructions/Note: Preservation Code: 9/23 6 Post-Carbon 2 Water X X X 0900 0910 G Pre-Carbon Water X X X Outside Sump X 6 Water Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Disposal By Lab Archive For Return To Client Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Empty Kit Relinquished by: Relinquished by 0953 Relinguished by: Relinquished by: Date/Time: Company Received by: Date/Time Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remarks: Δ Yes Δ No

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Client: New York State D.E.C.

Job Number: 480-175486-1

Login Number: 175486

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

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	11.8 #1 ICE
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 (Excluding tests with immediate HTs)	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.	True	
Chlorine Residual checked.	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-176831-1

Client Project/Site: Gastown WWTP #915171

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Authorized for release by: 10/30/2020 5:16:20 AM

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Orlette Johnson

Senior Project Manager 10/30/2020 5:16:20 AM

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.

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-176831-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Qualifiers

-				11		
G	G/	IV	IS	v	U	Α

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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. Test performed by laboratory at client's request.

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
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-176831-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-176831-1

Receipt

The samples were received on 10/20/2020 1:55 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Outside Sump (480-176831-3), (480-176831-A-3 MS) and (480-176831-A-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-555142 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-176831-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted due to the nature of the sample matrix: Pre-Carbon (480-176831-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post Carbon 2 (480-176831-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-176831-1

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Date Received: 10/20/20 13:55

n-Butylbenzene

o-Xylene

Toluene

N-Propylbenzene

sec-Butylbenzene

Tetrachloroethene

Client Sample ID: Post Carbon 2

Date Collected: 10/20/20 12:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 480-176831-1

Matrix: Water

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND -	1.0		ug/L			10/22/20 13:25	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			10/22/20 13:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			10/22/20 13:25	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			10/22/20 13:25	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			10/22/20 13:25	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			10/22/20 13:25	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			10/22/20 13:25	1
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			10/22/20 13:25	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			10/22/20 13:25	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			10/22/20 13:25	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			10/22/20 13:25	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			10/22/20 13:25	1
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			10/22/20 13:25	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			10/22/20 13:25	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			10/22/20 13:25	1
2-Butanone (MEK)	ND	10	1.3	ug/L			10/22/20 13:25	1
2-Hexanone	ND	5.0		ug/L			10/22/20 13:25	1
4-Isopropyltoluene	ND	1.0	0.31	-			10/22/20 13:25	1
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			10/22/20 13:25	1
Acetone	ND	10		ug/L			10/22/20 13:25	1
Benzene	ND	1.0	0.41	_			10/22/20 13:25	1
Bromoform	ND	1.0		ug/L			10/22/20 13:25	1
Bromomethane	ND	1.0	0.69	-			10/22/20 13:25	1
Carbon disulfide	ND	1.0	0.19	ug/L			10/22/20 13:25	1
Carbon tetrachloride	ND	1.0	0.27				10/22/20 13:25	1
Chlorobenzene	ND	1.0	0.75				10/22/20 13:25	1
Dibromochloromethane	ND	1.0	0.32	-			10/22/20 13:25	1
Chloroethane	ND	1.0	0.32	ug/L			10/22/20 13:25	1
Chloroform	ND	1.0	0.34	-			10/22/20 13:25	1
Chloromethane	ND	1.0	0.35	-			10/22/20 13:25	1
cis-1,2-Dichloroethene	ND	1.0	0.81				10/22/20 13:25	1
Cyclohexane	ND	1.0	0.18	-			10/22/20 13:25	1
Bromodichloromethane	ND	1.0	0.39	-			10/22/20 13:25	1
Dichlorodifluoromethane	ND	1.0	0.68				10/22/20 13:25	1
Ethylbenzene	ND	1.0	0.74				10/22/20 13:25	1
1,2-Dibromoethane	ND	1.0	0.73	-			10/22/20 13:25	1
Isopropylbenzene	ND	1.0	0.79				10/22/20 13:25	1
Methyl acetate	ND	2.5		ug/L			10/22/20 13:25	1
Methyl tert-butyl ether	ND	1.0	0.16	-			10/22/20 13:25	1
Methylcyclohexane	ND	1.0	0.16				10/22/20 13:25	1
Methylene Chloride	ND	1.0	0.44				10/22/20 13:25	1
m,p-Xylene	ND	2.0	0.66				10/22/20 13:25	1
Naphthalene	ND	1.0		ug/L			10/22/20 13:25	1

Eurofins TestAmerica, Buffalo

10/30/2020

10/22/20 13:25

10/22/20 13:25

10/22/20 13:25

10/22/20 13:25

10/22/20 13:25

10/22/20 13:25

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1.0

1.0

1.0

1.0

1.0

1.0

0.64 ug/L

0.69 ug/L

0.76 ug/L

0.75 ug/L

0.36 ug/L

0.51 ug/L

ND

ND

ND

ND

ND

ND

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post Carbon 2

Date Collected: 10/20/20 12:40 Date Received: 10/20/20 13:55 Lab Sample ID: 480-176831-1

Matrix: Water

Method: 8260C - Volatile O	rganic Compou	unds by G	C/MS (Contir	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/22/20 13:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/22/20 13:25	1
Trichloroethene	ND		1.0	0.46	ug/L			10/22/20 13:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/22/20 13:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/22/20 13:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/22/20 13:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/22/20 13:25	1
Styrene	ND		1.0	0.73	ug/L			10/22/20 13:25	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			10/22/20 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					10/22/20 13:25	1
4-Bromofluorobenzene (Surr)	98		73 - 120					10/22/20 13:25	1
Toluene-d8 (Surr)	107		80 - 120					10/22/20 13:25	1
Dibromofluoromethane (Surr)	109		75 - 123					10/22/20 13:25	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.022		0.010	0.0050	mg/L		10/26/20 19:31	10/27/20 14:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1	0.1	SU			10/22/20 14:22	1
Temperature	20.6	HE	0.001	0.001	Degrees C			10/22/20 14:22	1

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Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 10/20/20 12:45

Lab Sample ID: 480-176831-2

Matrix: Water

Date Received: 10/20/20 13:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND	20	16	ug/L			10/22/20 15:24	
1,1,2,2-Tetrachloroethane	ND	20	4.2	ug/L			10/22/20 15:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20	6.2	ug/L			10/22/20 15:24	
1,1,2-Trichloroethane	ND	20	4.6	ug/L			10/22/20 15:24	
1,1-Dichloroethane	ND	20	7.6	ug/L			10/22/20 15:24	
1,1-Dichloroethene	ND	20	5.8	ug/L			10/22/20 15:24	
1,2,4-Trichlorobenzene	ND	20	8.2	ug/L			10/22/20 15:24	
1,2,4-Trimethylbenzene	ND	20		ug/L			10/22/20 15:24	
1,2-Dibromo-3-Chloropropane	ND	20		ug/L			10/22/20 15:24	
1,2-Dichlorobenzene	ND	20		ug/L			10/22/20 15:24	
1,2-Dichloroethane	ND	20		ug/L			10/22/20 15:24	
1,2-Dichloropropane	ND	20		ug/L			10/22/20 15:24	
1,3,5-Trimethylbenzene	ND	20		ug/L			10/22/20 15:24	
1,3-Dichlorobenzene	ND	20		ug/L			10/22/20 15:24	
1,4-Dichlorobenzene	ND	20		ug/L			10/22/20 15:24	
2-Butanone (MEK)	ND	200		ug/L			10/22/20 15:24	
2-Hexanone	ND	100		ug/L			10/22/20 15:24	
4-Isopropyltoluene	ND	20		ug/L			10/22/20 15:24	
4-Methyl-2-pentanone (MIBK)	ND ND	100		ug/L			10/22/20 15:24	
Acetone	ND	200		ug/L			10/22/20 15:24	
Benzene	1000	20		ug/L			10/22/20 15:24	
Bromoform	ND	20		ug/L			10/22/20 15:24	
Bromomethane	ND	20		ug/L			10/22/20 15:24	
Carbon disulfide	ND	20		ug/L			10/22/20 15:24	
Carbon tetrachloride	ND	20		ug/L			10/22/20 15:24	
Chlorobenzene	ND	20		ug/L			10/22/20 15:24	
Dibromochloromethane	ND	20		ug/L			10/22/20 15:24	
Chloroethane	ND	20		ug/L			10/22/20 15:24	
Chloroform	ND	20		ug/L			10/22/20 15:24	
Chloromethane	ND	20	7.0	ug/L			10/22/20 15:24	
cis-1,2-Dichloroethene	ND	20	16	ug/L			10/22/20 15:24	
Cyclohexane	ND	20	3.6	ug/L			10/22/20 15:24	
Bromodichloromethane	ND	20	7.8	ug/L			10/22/20 15:24	
Dichlorodifluoromethane	ND	20	14	ug/L			10/22/20 15:24	
Ethylbenzene	76	20	15	ug/L			10/22/20 15:24	
,2-Dibromoethane	ND	20	15	ug/L			10/22/20 15:24	
sopropylbenzene	ND	20		ug/L			10/22/20 15:24	
Methyl acetate	ND	50		ug/L			10/22/20 15:24	
Methyl tert-butyl ether	ND	20		ug/L			10/22/20 15:24	
Methylcyclohexane	ND	20		ug/L			10/22/20 15:24	
Methylene Chloride	14 J	20		ug/L			10/22/20 15:24	
n,p-Xylene	33 J	40		ug/L			10/22/20 15:24	
Naphthalene	65	20		ug/L			10/22/20 15:24	
n-Butylbenzene	ND	20		ug/L			10/22/20 15:24	
N-Propylbenzene	ND	20		ug/L			10/22/20 15:24	
o-Xylene	20	20		ug/L			10/22/20 15:24	
ec-Butylbenzene	ND	20		ug/L ug/L			10/22/20 15:24	
Tetrachloroethene Toluene	ND 180	20		ug/L ug/L			10/22/20 15:24 10/22/20 15:24	

Eurofins TestAmerica, Buffalo

10/30/2020

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1 (

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 10/20/20 12:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte

Date Received: 10/20/20 13:55

Prepared

Analyzed

ID	Sample	ID: 480-1/6831-2	
		Matrix: Water	

Method: 8260C - Volatile O	rganic Compoi	unds by G	C/MS (Contir	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		20	18	ug/L			10/22/20 15:24	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			10/22/20 15:24	20
Trichloroethene	ND		20	9.2	ug/L			10/22/20 15:24	20
Trichlorofluoromethane	ND		20	18	ug/L			10/22/20 15:24	20
Vinyl chloride	ND		20	18	ug/L			10/22/20 15:24	20
Xylenes, Total	53		40	13	ug/L			10/22/20 15:24	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			10/22/20 15:24	20
Styrene	ND		20	15	ug/L			10/22/20 15:24	20
tert-Butylbenzene	ND		20	16	ug/L			10/22/20 15:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120			•		10/22/20 15:24	20
4-Bromofluorobenzene (Surr)	90		73 - 120					10/22/20 15:24	20
Toluene-d8 (Surr)	95		80 - 120					10/22/20 15:24	20
Dibromofluoromethane (Surr)	98		75 - 123					10/22/20 15:24	20

Oblavida	EE E		2.5	1 1	ma/l			10/24/20 22:22	
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Sodium	37100		1000	324	ug/L		10/22/20 09:37	10/23/20 17:55	1
0	07400		1000	204			10/22/20 00:27	10/02/20 17:55	
Potassium	2190		500	100	ug/L		10/22/20 09:37	10/27/20 22:19	1
Magnesium	16300		200	43.4	ug/L		10/22/20 09:37	10/23/20 17:55	1
Calcium	58500		500	100	ug/L		10/22/20 09:37	10/23/20 17:55	1

RL

MDL Unit

Result Qualifier

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	55.5	2.5	1.4 mg/L		10/24/20 23:32	5
Sulfate	43.5	10.0	1.7 mg/L		10/24/20 23:32	5
Alkalinity, Total	171	40.0	16.0 mg/L		10/26/20 23:49	4

Dil Fac

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Lab Sample ID: 480-176831-3 Date Collected: 10/20/20 12:50

Matrix: Water Date Received: 10/20/20 13:55

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed 1,1,1-Trichloroethane ND 80 66 ug/L 10/21/20 21:52 80 ND 80 1,1,2,2-Tetrachloroethane 17 ug/L 10/21/20 21:52 80 1,1,2-Trichloro-1,2,2-trifluoroethane ND 80 ug/L 10/21/20 21:52 80 ND 80 80 1,1,2-Trichloroethane 18 ug/L 10/21/20 21:52 1.1-Dichloroethane ND 80 30 ug/L 10/21/20 21:52 80 1.1-Dichloroethene ND 80 23 ug/L 10/21/20 21:52 a۸ 1,2,4-Trichlorobenzene ND 80 ug/L 10/21/20 21:52 80 ND 80 10/21/20 21:52 80 1,2,4-Trimethylbenzene 60 ug/L 1,2-Dibromo-3-Chloropropane ND 80 31 ug/L 10/21/20 21:52 80 ug/L 1,2-Dibromoethane ND 80 58 10/21/20 21:52 80 1,2-Dichlorobenzene ND 80 ug/L 10/21/20 21:52 80 1.2-Dichloroethane ND 80 17 ug/L 10/21/20 21:52 80 1,2-Dichloropropane ND 80 58 ug/L 10/21/20 21:52 80 1,3,5-Trimethylbenzene ND 80 62 ug/L 10/21/20 21:52 80 80 80 1,3-Dichlorobenzene ND 62 ug/L 10/21/20 21:52 80 1,4-Dichlorobenzene ND 67 ug/L 10/21/20 21:52 80 ND 2-Butanone (MEK) 800 110 10/21/20 21:52 80 ug/L 2-Hexanone ND 400 ug/L 10/21/20 21:52 80 ND 80 25 ug/L 10/21/20 21:52 80 4-Isopropyltoluene 4-Methyl-2-pentanone (MIBK) ND 400 ug/L 10/21/20 21:52 80 Acetone ND F2 800 240 ug/L 10/21/20 21:52 80 2800 F1 80 33 ug/L 10/21/20 21:52 80 Benzene Bromodichloromethane ND 80 ug/L 10/21/20 21:52 80 31 Bromoform ND 80 21 ug/L 10/21/20 21:52 80 Bromomethane ND 80 55 ug/L 10/21/20 21:52 80 Carbon disulfide ND 80 15 ug/L 10/21/20 21:52 80 Carbon tetrachloride ND 80 22 ug/L 10/21/20 21:52 80 ND 80 Chlorobenzene 60 ug/L 10/21/20 21:52 80 80 Chloroethane ND 26 ug/L 10/21/20 21:52 80 Chloroform ND 80 27 ug/L 80 10/21/20 21:52 Chloromethane ND 80 28 ug/L 10/21/20 21:52 80 cis-1,2-Dichloroethene ND 80 65 ug/L 10/21/20 21:52 80 cis-1,3-Dichloropropene ND 80 ug/L 10/21/20 21:52 80 ND 80 80 Cyclohexane 14 ug/L 10/21/20 21:52 Dibromochloromethane ND 80 26 ug/L 10/21/20 21:52 80 Dichlorodifluoromethane ND 80 10/21/20 21:52 80 54 ug/L Ethylbenzene 180 80 59 ug/L 10/21/20 21:52 80 63 Isopropylbenzene ND 80 ug/L 10/21/20 21:52 80 160 53 80 m,p-Xylene 87 ug/L 10/21/20 21:52 200 Methyl acetate ND F2 F1 100 ug/L 10/21/20 21:52 80 Methyl tert-butyl ether ND 80 13 ug/L 10/21/20 21:52 80 Methylcyclohexane NΩ 80 ug/L 10/21/20 21:52 80 ND 80 an Methylene Chloride 35 ug/L 10/21/20 21:52 80 10/21/20 21:52 80 **Naphthalene** 290 ug/L n-Butylbenzene 80 80 ND 51 ug/L 10/21/20 21:52 N-Propylbenzene ND 80 ug/L 10/21/20 21:52 80 ND 80 61 80 o-Xylene ug/L 10/21/20 21:52 sec-Butylbenzene ND F2 80 60 ug/L 10/21/20 21:52 80 Styrene ND 80 58 ug/L 10/21/20 21:52

Eurofins TestAmerica, Buffalo

10/30/2020

Page 10 of 17

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 10/20/20 12:50

Date Received: 10/20/20 13:55

Lab Sample ID: 480-176831-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		80	65	ug/L			10/21/20 21:52	80
Tetrachloroethene	ND		80	29	ug/L			10/21/20 21:52	80
Toluene	490		80	41	ug/L			10/21/20 21:52	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			10/21/20 21:52	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			10/21/20 21:52	80
Trichloroethene	ND		80	37	ug/L			10/21/20 21:52	80
Trichlorofluoromethane	ND		80	70	ug/L			10/21/20 21:52	80
Vinyl chloride	ND		80	72	ug/L			10/21/20 21:52	80
Xylenes, Total	87	J	160	53	ug/L			10/21/20 21:52	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					10/21/20 21:52	80
4-Bromofluorobenzene (Surr)	103		73 - 120					10/21/20 21:52	80
Toluene-d8 (Surr)	103		80 - 120					10/21/20 21:52	80

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post Carbon 2

Date Collected: 10/20/20 12:40 Date Received: 10/20/20 13:55 Lab Sample ID: 480-176831-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			555142	10/22/20 13:25	LCH	TAL BUF
Total/NA	Prep	Distill/CN			555857	10/26/20 19:31	ALT	TAL BUF
Total/NA	Analysis	335.4		1	556037	10/27/20 14:49	CRK	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	555275	10/22/20 14:22	BEF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 10/20/20 12:45 Date Received: 10/20/20 13:55 Lab Sample ID: 480-176831-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			555136	10/22/20 15:24	RJF	TAL BUF
Total/NA	Prep	200.7			555150	10/22/20 09:37	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	555549	10/23/20 17:55	LMH	TAL BUF
Total/NA	Prep	200.7			555150	10/22/20 09:37	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	556197	10/27/20 22:19	LMH	TAL BUF
Total/NA	Analysis	300.0		5	555597	10/24/20 23:32	RJS	TAL BUF
Total/NA	Analysis	310.2		4	555870	10/26/20 23:49	SRW	TAL BUF

Client Sample ID: Outside Sump

Date Collected: 10/20/20 12:50 Date Received: 10/20/20 13:55 Lab Sample ID: 480-176831-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	554992	10/21/20 21:52	LCH	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-176831-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	Program	Identification Number	Expiration Date
New York	N	IELAP	10026	10-28-20
The following analytes	•	port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
0 ,				
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Water	Analyte Cyanide, Total	
Analysis Method	Prep Method			

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-176831-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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	рН	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Lab Sample ID 480-176831-1	Client Sample ID Post Carbon 2	Matrix Water	Collected 10/20/20 12:40	Received	Asset ID
480-176831-2	Pre-Carbon	Water	10/20/20 12:45		
480-176831-3	Outside Sump	Water	10/20/20 12:50	10/20/20 13:55	

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Job ID: 480-176831-1

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CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

	PAGE W OF
FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

CL	JENT/REPORTING INFORMATION		PROJECT INFO	RMATION				BILLIN	G INF	ORM	ATIO	N							A PRODUCE A		ode she			LAB	B USE ONLY
Project M Thomas P PM Email tpalmer(almer 800-287-7857 : Fax #: @gesonline.com 866-902-2187	1	Project N EC/Tonawanda/ Project A 26 E Niagara St, Project P 8157 Sampler(s) Name	NY/ENlagara: ddress: Fonawanda, PSID #: 31				Phone Phone Invo	#: 71 ice Ins C Site lanage	struct No. 9	er: Gle 1-7200 tions 91517 rlette	0 71 John		tles		Total		На	8260C - TCL + CP-51 (Stars)	CI, SO4	К, На	Total			
Bras	Jon Mikolin / GES		Sumpler(s) Hume	-					ΠΪ		1		П		T	Cyanide	yalli	±.	77	3D - C	Ca, Mg,	Alkalinity,	}	- 1	
Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	HCI	NaOH	HN03	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber		SM4500_H+-pH	8260C -	300.0_28D -	200.7 - C	310.2 - A			
	Post Carbon 2		10-20-20	1240	B.M.Koli	WG	5	3	1			1)	K	X	Х						
	Pre-Carbon			1245		WG	6	3		i		2							X	X	X	X			
	Outside Sump		1	1250	1	WG	3	3						+	+	-	+		х					-	
Turnarou	und Time (Business Days) Approved By (Lab PN	l)/ Date	Laboratory In	formation							Data D	Delive	erable	Inform	matio	1	-1768	B31 C	Chain d	of Cus	tody				
Other	nail the EQ EDD Package to ges@equiso		Address: Phone: Lab PM: Lab PM Email							F Co	omme JLLT1 J Redu omme	rcial ' (Leve iced = ercial '	B" (Lev 3 & 4 Resul	rel 2) =) ts + Q0	Resu	ts Only lts +QC mary +l	Summ	l Raw I	Data						
EQEDD N	ame: NYSDEC/Tonawanda/NY/EN Sample Custody must be documented		The second secon	-		NAME OF THE PARTY OF					YASP C	-													
	ad By Sampler: Da	te / Time:	0 1355 Rece	ived By:	country to the same of the sam					F St	tate Fo	orms			-		H	-	4.	Т.	_				
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10/30/2020

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Client: New York State D.E.C.

Job Number: 480-176831-1

Login Number: 176831 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

oroutor. Roll, office in		
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 (Excluding tests with immediate HTs)	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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-178376-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Quarterly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Wyst Bloton

Authorized for release by: 12/4/2020 10:33:31 AM Wyatt Watson, Project Management Assistant I Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 480-178376-1

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.

Wigott Bloton

Wyatt Watson

Project Management Assistant I

12/4/2020 10:33:31 AM

Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-178376-1

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier Qualifier Description

* LCS or LCSD is outside acceptance limits.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Eurofins TestAmerica, Buffalo

Case Narrative

Client: New York State D.E.C.

Job ID: 480-178376-1 Project/Site: Gastown WWTP #915171

Job ID: 480-178376-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-178376-1

Comments

No additional comments.

Receipt

The samples were received on 11/18/2020 9:45 AM: the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-178376-2), Outside Sump (480-178376-3), (480-178376-D-2 MS) and (480-178376-D-2 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-178376-2) and Outside Sump (480-178376-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-561678 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-178376-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 5210B: The glucose-glutamic acid standard (LCS) recovered low outside the recovery limits specified in the method in batch 480-560091. The method holding time had expired, therefore the analysis was not repeated. The data was gualified and reported.

Methods 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-178376-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-560128.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 11/18/20 09:15 Date Received: 11/18/20 09:45 Lab Sample ID: 480-178376-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND —	1.0	0.82	ug/L			11/20/20 16:07	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			11/20/20 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			11/20/20 16:07	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			11/20/20 16:07	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			11/20/20 16:07	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			11/20/20 16:07	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			11/20/20 16:07	1
1,2,4-Trimethylbenzene	ND	1.0	0.75	ug/L			11/20/20 16:07	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			11/20/20 16:07	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			11/20/20 16:07	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			11/20/20 16:07	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			11/20/20 16:07	1
1,3,5-Trimethylbenzene	ND	1.0	0.77	ug/L			11/20/20 16:07	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			11/20/20 16:07	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			11/20/20 16:07	1
2-Butanone (MEK)	ND	10	1.3	ug/L			11/20/20 16:07	1
2-Hexanone	ND	5.0		ug/L			11/20/20 16:07	1
4-Isopropyltoluene	ND	1.0		ug/L			11/20/20 16:07	1
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			11/20/20 16:07	1
Acetone	ND	10	3.0	ug/L			11/20/20 16:07	1
Benzene	ND	1.0		ug/L			11/20/20 16:07	1
Bromoform	ND	1.0	0.26	ug/L			11/20/20 16:07	1
Bromomethane	ND	1.0		ug/L			11/20/20 16:07	1
Carbon disulfide	ND	1.0		ug/L			11/20/20 16:07	1
Carbon tetrachloride	ND	1.0		ug/L			11/20/20 16:07	1
Chlorobenzene	ND	1.0		ug/L			11/20/20 16:07	1
Dibromochloromethane	ND	1.0		ug/L			11/20/20 16:07	1
Chloroethane	ND	1.0		ug/L			11/20/20 16:07	1
Chloroform	ND	1.0		ug/L			11/20/20 16:07	1
Chloromethane	ND	1.0		ug/L			11/20/20 16:07	1
cis-1,2-Dichloroethene	ND	1.0		ug/L			11/20/20 16:07	1
Cyclohexane	ND	1.0		ug/L			11/20/20 16:07	1
Bromodichloromethane	ND	1.0		ug/L			11/20/20 16:07	1
Dichlorodifluoromethane	ND	1.0		ug/L			11/20/20 16:07	1
Ethylbenzene	ND	1.0		ug/L			11/20/20 16:07	1
1,2-Dibromoethane	ND	1.0	0.73	-			11/20/20 16:07	1
Isopropylbenzene	ND	1.0		ug/L			11/20/20 16:07	1
Methyl acetate	ND	2.5		ug/L			11/20/20 16:07	1
Methyl tert-butyl ether	ND	1.0		ug/L			11/20/20 16:07	1
Methylcyclohexane	ND	1.0		ug/L			11/20/20 16:07	1
Methylene Chloride	ND	1.0		ug/L			11/20/20 16:07	1
m,p-Xylene	ND	2.0		ug/L			11/20/20 16:07	1
Naphthalene	ND	1.0		ug/L			11/20/20 16:07	1
n-Butylbenzene	ND	1.0		ug/L			11/20/20 16:07	1
N-Propylbenzene	ND	1.0		ug/L			11/20/20 16:07	1
o-Xylene	ND	1.0		ug/L			11/20/20 16:07	1
sec-Butylbenzene	ND	1.0		ug/L			11/20/20 16:07	1
Tetrachloroethene	ND	1.0		ug/L			11/20/20 16:07	1
Toluene	ND	1.0	0.51				11/20/20 16:07	

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 11/18/20 09:15 Date Received: 11/18/20 09:45

Lab Sample ID: 480-178376-1

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND ND	1.0	0.90	ug/L			11/20/20 16:07	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			11/20/20 16:07	1
Trichloroethene	ND	1.0	0.46	ug/L			11/20/20 16:07	1
Trichlorofluoromethane	ND	1.0	0.88	ug/L			11/20/20 16:07	1
Vinyl chloride	ND	1.0	0.90	ug/L			11/20/20 16:07	1
Xylenes, Total	ND	2.0	0.66	ug/L			11/20/20 16:07	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			11/20/20 16:07	1
Styrene	ND	1.0	0.73	ug/L			11/20/20 16:07	1
tert-Butylbenzene	ND	1.0	0.81	ug/L			11/20/20 16:07	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	77 - 120		11/20/20 16:07	1
4-Bromofluorobenzene (Surr)	109	73 - 120		11/20/20 16:07	1
Toluene-d8 (Surr)	101	80 - 120		11/20/20 16:07	1
Dibromofluoromethane (Surr)	103	75 - 123		11/20/20 16:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		11/23/20 09:20	12/03/20 01:36	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/23/20 09:20	12/03/20 01:36	1
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 09:20	12/03/20 01:36	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 09:20	12/03/20 01:36	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 09:20	12/03/20 01:36	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/23/20 09:20	12/03/20 01:36	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/23/20 09:20	12/03/20 01:36	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/23/20 09:20	12/03/20 01:36	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/23/20 09:20	12/03/20 01:36	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/23/20 09:20	12/03/20 01:36	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/23/20 09:20	12/03/20 01:36	1
Carbazole	ND		5.0	0.30	ug/L		11/23/20 09:20	12/03/20 01:36	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 09:20	12/03/20 01:36	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 09:20	12/03/20 01:36	1
Dibenzofuran	ND		10	0.51	ug/L		11/23/20 09:20	12/03/20 01:36	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 09:20	12/03/20 01:36	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 09:20	12/03/20 01:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/23/20 09:20	12/03/20 01:36	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 09:20	12/03/20 01:36	1
Pentachlorophenol	ND		10	2.2	ug/L		11/23/20 09:20	12/03/20 01:36	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 09:20	12/03/20 01:36	1
Phenol	ND		5.0	0.39	ug/L		11/23/20 09:20	12/03/20 01:36	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 09:20	12/03/20 01:36	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95	46 - 120	11/23/20 09:20	12/03/20 01:36	1
2-Fluorobiphenyl	102	48 - 120	11/23/20 09:20	12/03/20 01:36	1
p-Terphenyl-d14	109	60 - 148	11/23/20 09:20	12/03/20 01:36	1
Phenol-d5	54	22 - 120	11/23/20 09:20	12/03/20 01:36	1
2-Fluorophenol	74	35 - 120	11/23/20 09:20	12/03/20 01:36	1
2,4,6-Tribromophenol	80	41 - 120	11/23/20 09:20	12/03/20 01:36	1

Eurofins TestAmerica, Buffalo

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 11/18/20 09:15 Date Received: 11/18/20 09:45 Lab Sample ID: 480-178376-1

Matrix: Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.048	0.0077	ug/L		11/20/20 08:41	11/23/20 14:48	1
alpha-BHC	ND		0.048	0.0073	ug/L		11/20/20 08:41	11/23/20 14:48	1
beta-BHC	ND		0.048	0.024	ug/L		11/20/20 08:41	11/23/20 14:48	1
delta-BHC	ND		0.048	0.0095	ug/L		11/20/20 08:41	11/23/20 14:48	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		11/20/20 08:41	11/23/20 14:48	1
Chlordane (technical)	ND		0.48	0.28	ug/L		11/20/20 08:41	11/23/20 14:48	1
4,4'-DDD	ND		0.048	0.0088	ug/L		11/20/20 08:41	11/23/20 14:48	1
4,4'-DDE	ND		0.048	0.011	ug/L		11/20/20 08:41	11/23/20 14:48	1
4,4'-DDT	ND		0.048	0.010	ug/L		11/20/20 08:41	11/23/20 14:48	1
Dieldrin	ND		0.048	0.0093	ug/L		11/20/20 08:41	11/23/20 14:48	1
Endosulfan I	ND		0.048	0.010	ug/L		11/20/20 08:41	11/23/20 14:48	1
Endosulfan II	ND		0.048	0.011	ug/L		11/20/20 08:41	11/23/20 14:48	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		11/20/20 08:41	11/23/20 14:48	1
Endrin	ND		0.048	0.013	ug/L		11/20/20 08:41	11/23/20 14:48	1
Endrin aldehyde	ND		0.048	0.016	ug/L		11/20/20 08:41	11/23/20 14:48	1
Heptachlor	ND		0.048	0.0081	ug/L		11/20/20 08:41	11/23/20 14:48	1
Heptachlor epoxide	ND		0.048	0.0070	ug/L		11/20/20 08:41	11/23/20 14:48	1
Toxaphene	ND		0.48	0.11	ug/L		11/20/20 08:41	11/23/20 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		23 - 120				11/20/20 08:41	11/23/20 14:48	1
Tetrachloro-m-xylene	100		44 - 120				11/20/20 08:41	11/23/20 14:48	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.062		0.010	0.0050	mg/L		11/30/20 21:41	12/01/20 19:15	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			11/29/20 03:16	1
Total Dissolved Solids	772		10.0	4.0	mg/L			11/25/20 17:56	1
Biochemical Oxygen Demand	ND	*	2.0	2.0	mg/L			11/19/20 14:19	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		5.0	5.0	mg/L			12/01/20 16:00	1
Total Suspended Solids	ND		4.0	4.0	mg/L			11/21/20 18:47	1
pH	7.7	HF	0.1	0.1	SU			11/30/20 13:09	1
Temperature	19.2	HF	0.001	0.001	Degrees C			11/30/20 13:09	1

9

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8

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Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 11/18/20 09:20 Date Received: 11/18/20 09:45

Toluene

trans-1,2-Dichloroethene

Lab Sample ID: 480-178376-2

Matrix: Wastewater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	20	16	ug/L			11/20/20 16:30	20
1,1,2,2-Tetrachloroethane	ND	20		ug/L			11/20/20 16:30	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20	6.2	ug/L			11/20/20 16:30	20
1,1,2-Trichloroethane	ND	20	4.6	ug/L			11/20/20 16:30	20
1,1-Dichloroethane	ND	20	7.6	ug/L			11/20/20 16:30	20
1,1-Dichloroethene	ND	20	5.8	ug/L			11/20/20 16:30	20
1,2,4-Trichlorobenzene	ND	20		ug/L			11/20/20 16:30	20
1,2,4-Trimethylbenzene	ND	20		ug/L			11/20/20 16:30	20
1,2-Dibromo-3-Chloropropane	ND	20	7.8	ug/L			11/20/20 16:30	20
1,2-Dichlorobenzene	ND	20	16	ug/L			11/20/20 16:30	20
1,2-Dichloroethane	ND	20	4.2	ug/L			11/20/20 16:30	20
1,2-Dichloropropane	ND	20		ug/L			11/20/20 16:30	20
1,3,5-Trimethylbenzene	ND	20	15	ug/L			11/20/20 16:30	20
1,3-Dichlorobenzene	ND	20	16	ug/L			11/20/20 16:30	20
1,4-Dichlorobenzene	ND	20	17	ug/L			11/20/20 16:30	20
2-Butanone (MEK)	ND	200	26	ug/L			11/20/20 16:30	20
2-Hexanone	ND	100	25	ug/L			11/20/20 16:30	20
4-Isopropyltoluene	ND	20	6.2	ug/L			11/20/20 16:30	20
4-Methyl-2-pentanone (MIBK)	ND	100	42	ug/L			11/20/20 16:30	20
Acetone	ND	200	60	ug/L			11/20/20 16:30	20
Bromoform	ND	20	5.2	ug/L			11/20/20 16:30	20
Bromomethane	ND	20		ug/L			11/20/20 16:30	20
Carbon disulfide	ND	20	3.8	ug/L			11/20/20 16:30	20
Carbon tetrachloride	ND	20		ug/L			11/20/20 16:30	20
Chlorobenzene	ND	20	15	ug/L			11/20/20 16:30	20
Dibromochloromethane	ND	20		ug/L			11/20/20 16:30	20
Chloroethane	ND	20	6.4	ug/L			11/20/20 16:30	20
Chloroform	ND	20	6.8	ug/L			11/20/20 16:30	20
Chloromethane	ND	20		ug/L			11/20/20 16:30	20
cis-1,2-Dichloroethene	ND	20	16	ug/L			11/20/20 16:30	20
Cyclohexane	ND	20	3.6	ug/L			11/20/20 16:30	20
Bromodichloromethane	ND	20	7.8	ug/L			11/20/20 16:30	20
Dichlorodifluoromethane	ND	20		ug/L			11/20/20 16:30	20
Ethylbenzene	140	20	15	ug/L			11/20/20 16:30	20
1,2-Dibromoethane	ND	20	15	ug/L			11/20/20 16:30	20
Isopropylbenzene	ND	20		ug/L			11/20/20 16:30	20
Methyl acetate	ND	50		ug/L			11/20/20 16:30	20
Methyl tert-butyl ether	ND	20		ug/L			11/20/20 16:30	20
Methylcyclohexane	ND	20		ug/L			11/20/20 16:30	20
Methylene Chloride	ND	20		ug/L			11/20/20 16:30	20
m,p-Xylene	120	40		ug/L			11/20/20 16:30	20
Naphthalene	300	20		ug/L			11/20/20 16:30	20
n-Butylbenzene	ND	20		ug/L			11/20/20 16:30	20
N-Propylbenzene	ND	20		ug/L			11/20/20 16:30	20
o-Xylene	72	20		ug/L			11/20/20 16:30	20
sec-Butylbenzene	ND	20		ug/L			11/20/20 16:30	20
Tetrachloroethene	ND	20		ug/L			11/20/20 16:30	20

520 F1

ND

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11/20/20 16:30

11/20/20 16:30

20

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10 ug/L

18 ug/L

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon

Date Collected: 11/18/20 09:20 Date Received: 11/18/20 09:45 Lab Sample ID: 480-178376-2

Matrix: Wastewater

Job ID: 480-178376-1

Method: 8260C - Volatile O	rganic Compou	inds by G	C/MS (Contin	ued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			11/20/20 16:30	20
Trichloroethene	ND		20	9.2	ug/L			11/20/20 16:30	20
Trichlorofluoromethane	ND		20	18	ug/L			11/20/20 16:30	20
Vinyl chloride	ND		20	18	ug/L			11/20/20 16:30	20
Xylenes, Total	190		40	13	ug/L			11/20/20 16:30	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			11/20/20 16:30	20
Styrene	ND		20	15	ug/L			11/20/20 16:30	20
tert-Butylbenzene	ND		20	16	ug/L			11/20/20 16:30	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120					11/20/20 16:30	20
4-Bromofluorobenzene (Surr)	111		73 - 120					11/20/20 16:30	20
Toluene-d8 (Surr)	102		80 - 120					11/20/20 16:30	20
Dibromofluoromethane (Surr)	102		75 - 123					11/20/20 16:30	20

Method: 8260C - Volatile Or	rganic Compo	unds by G	C/MS - DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2900		50	21	ug/L			11/21/20 21:54	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120			•		11/21/20 21:54	50
4-Bromofluorobenzene (Surr)	110		73 - 120					11/21/20 21:54	50
Toluene-d8 (Surr)	101		80 - 120					11/21/20 21:54	50
Dibromofluoromethane (Surr)	101		75 - 123					11/21/20 21:54	50

Method: 200.7 Rev 4.4	- Metals (ICP)							
Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	116000	500	100	ug/L		11/24/20 09:12	11/24/20 20:46	1
Magnesium	37700	200	43.4	ug/L		11/24/20 09:12	11/24/20 20:46	1
Potassium	4090	500	100	ug/L		11/24/20 09:12	11/24/20 20:46	1
Sodium	104000	1000	324	ug/L		11/24/20 09:12	11/24/20 20:46	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		2.5	1.4	mg/L			11/20/20 23:19	5
Sulfate	107		10.0	1.7	mg/L			11/20/20 23:19	5
Alkalinity, Total	332		40.0	16.0	mg/L			12/01/20 13:41	4

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Date Received: 11/18/20 09:45

trans-1.2-Dichloroethene

Client Sample ID: Outside Sump

Lab Sample ID: 480-178376-3 Date Collected: 11/18/20 09:30

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac 1,1,1-Trichloroethane ND 80 66 ug/L 11/20/20 16:53 80 ND 80 1,1,2,2-Tetrachloroethane 17 ug/L 11/20/20 16:53 80 1,1,2-Trichloro-1,2,2-trifluoroethane ND 80 ug/L 11/20/20 16:53 80 ND 80 1,1,2-Trichloroethane 18 ug/L 11/20/20 16:53 80 1.1-Dichloroethane ND 80 30 ug/L 11/20/20 16:53 80 1.1-Dichloroethene ND 80 23 ug/L 11/20/20 16:53 a۸ 1,2,4-Trichlorobenzene ND 80 ug/L 11/20/20 16:53 80 ND 80 11/20/20 16:53 80 1,2,4-Trimethylbenzene 60 ug/L 1,2-Dibromo-3-Chloropropane ND 80 31 ug/L 11/20/20 16:53 80 1,2-Dichlorobenzene ND 80 63 ug/L 11/20/20 16:53 80 1,2-Dichloroethane ND 80 ug/L 11/20/20 16:53 80 1,2-Dichloropropane ND 80 58 ug/L 11/20/20 16:53 80 1,3,5-Trimethylbenzene ND 80 62 ug/L 11/20/20 16:53 80 1,3-Dichlorobenzene ND 80 62 ug/L 11/20/20 16:53 80 80 80 1,4-Dichlorobenzene ND 67 ug/L 11/20/20 16:53 800 2-Butanone (MEK) ND 110 ug/L 11/20/20 16:53 80 ND 2-Hexanone 400 99 ug/L 11/20/20 16:53 80 4-Isopropyltoluene ND 80 25 ug/L 11/20/20 16:53 80 4-Methyl-2-pentanone (MIBK) ND 400 170 ug/L 11/20/20 16:53 80 Acetone ND 800 240 ug/L 11/20/20 16:53 80 Bromoform ND 80 21 ug/L 11/20/20 16:53 80 Bromomethane ND 80 55 ug/L 11/20/20 16:53 80 Carbon disulfide ND 80 80 15 ug/L 11/20/20 16:53 Carbon tetrachloride ND 80 22 ug/L 11/20/20 16:53 80 Chlorobenzene ND 80 60 ug/L 11/20/20 16:53 80 ND 80 Dibromochloromethane 26 ug/L 11/20/20 16:53 80 Chloroethane ND 80 26 ug/L 11/20/20 16:53 80 Chloroform ND 80 27 ug/L 11/20/20 16:53 80 80 Chloromethane ND 28 ug/L 11/20/20 16:53 80 cis-1,2-Dichloroethene ND 80 65 80 ug/L 11/20/20 16:53 Cyclohexane ND 80 14 ug/L 11/20/20 16:53 80 Bromodichloromethane ND 80 31 ug/L 11/20/20 16:53 80 Dichlorodifluoromethane ND 80 ug/L 11/20/20 16:53 80 80 80 **Ethylbenzene** 580 59 ug/L 11/20/20 16:53 1,2-Dibromoethane ND 80 58 ug/L 11/20/20 16:53 80 Isopropylbenzene ND 80 80 63 ug/L 11/20/20 16:53 Methyl acetate ND 200 100 ug/L 11/20/20 16:53 80 Methyl tert-butyl ether ND 80 13 ug/L 11/20/20 16:53 80 ND 80 80 Methylcyclohexane 13 ug/L 11/20/20 16:53 80 Methylene Chloride ND 35 ug/L 11/20/20 16:53 80 m,p-Xylene 280 160 53 ug/L 11/20/20 16:53 80 **Naphthalene** 1100 80 ug/L 11/20/20 16:53 80 80 an n-Butylbenzene ND 51 ug/L 11/20/20 16:53 N-Propylbenzene 80 80 ND 55 ug/L 11/20/20 16:53 80 80 o-Xylene 160 61 ug/L 11/20/20 16:53 sec-Butylbenzene ND 80 ug/L 11/20/20 16:53 80 Tetrachloroethene ND 80 80 29 ug/L 11/20/20 16:53 **Toluene** 1500 80 41 ug/L 11/20/20 16:53 80

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12/4/2020

11/20/20 16:53

80

ND

72 ug/L

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Outside Sump

Date Collected: 11/18/20 09:30 Date Received: 11/18/20 09:45 Lab Sample ID: 480-178376-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		80	30	ug/L			11/20/20 16:53	80
Trichloroethene	ND		80	37	ug/L			11/20/20 16:53	80
Trichlorofluoromethane	ND		80	70	ug/L			11/20/20 16:53	80
Vinyl chloride	ND		80	72	ug/L			11/20/20 16:53	80
Xylenes, Total	440		160	53	ug/L			11/20/20 16:53	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			11/20/20 16:53	80
Styrene	120		80	58	ug/L			11/20/20 16:53	80
tert-Butylbenzene	ND		80	65	ug/L			11/20/20 16:53	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120					11/20/20 16:53	80
4-Bromofluorobenzene (Surr)	111		73 - 120					11/20/20 16:53	80
Toluene-d8 (Surr)	102		80 - 120					11/20/20 16:53	80
Dibromofluoromethane (Surr)	101		75 - 123					11/20/20 16:53	80

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS - DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6500		200	82	ug/L			11/21/20 22:18	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120					11/21/20 22:18	200
4-Bromofluorobenzene (Surr)	112		73 - 120					11/21/20 22:18	200
Toluene-d8 (Surr)	101		80 - 120					11/21/20 22:18	200
Dibromofluoromethane (Surr)	100		75 - 123					11/21/20 22:18	200

12/4/2020

Client Sample ID: Post-Carbon 2

Date Collected: 11/18/20 09:15 Date Received: 11/18/20 09:45

Lab Sample ID: 480-178376-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			560118	11/20/20 16:07	CRL	TAL BUF
Total/NA	Prep	3510C			560472	11/23/20 09:20	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561678	12/03/20 01:36	PJQ	TAL BUF
Total/NA	Prep	3510C			560128	11/20/20 08:41	JMP	TAL BUF
Total/NA	Analysis	608.3		1	560460	11/23/20 14:48	JLS	TAL BUF
Total/NA	Analysis	1664A		1	743754	12/01/20 16:00	AAA	TAL EDI
Total/NA	Prep	Distill/CN			561387	11/30/20 21:41	ALT	TAL BUF
Total/NA	Analysis	335.4		1	561530	12/01/20 19:15	ALT	TAL BUF
Total/NA	Analysis	420.4		1	561325	11/29/20 03:16	SRA	TAL BUF
Total/NA	Analysis	SM 2540C		1	560985	11/25/20 17:56	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	560376	11/21/20 18:47	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	561355	11/30/20 13:09	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	560091	11/19/20 14:19	SRW	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 11/18/20 09:20 Date Received: 11/18/20 09:45

Lab Sample ID: 480-178376-2

Lab Sample ID: 480-178376-3

Matrix: Wastewater

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			560118	11/20/20 16:30	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	50	560322	11/21/20 21:54	RJF	TAL BUF
Total/NA	Prep	200.7			560496	11/24/20 09:12	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	560903	11/24/20 20:46	LMH	TAL BUF
Total/NA	Analysis	300.0		5	560015	11/20/20 23:19	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	561620	12/01/20 13:41	KEB	TAL BUF

Client Sample ID: Outside Sump

Date Collected: 11/18/20 09:30

Date Received: 11/18/20 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	560118	11/20/20 16:53	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	200	560322	11/21/20 22:18	RJF	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-178376-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
lew York	N	ELAP	10026	04-01-21
The following analytes the agency does not do		ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 335.4	Prep Method Distill/CN	Matrix Wastewater	Analyte Cyanide, Total	

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
New York	NELAP	11452	04-01-21
Pennsylvania	NELAP	68-00522	02-28-21
Rhode Island	State	LAO00132	12-31-20
USDA	US Federal Programs	P330-20-00244	11-03-23

12/4/2020

Eurofins TestAmerica, Buffalo

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Method **Method Description Protocol** Laboratory 8260C Volatile Organic Compounds by GC/MS SW846 TAL BUF 8270D Semivolatile Organic Compounds (GC/MS) SW846 **TAL BUF** 608.3 Organochlorine Pesticides in Water 40CFR136A TAL BUF 200.7 Rev 4.4 Metals (ICP) EPA TAL BUF 1664A HEM and SGT-HEM 1664A TAL EDI 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 рΗ SM TAL BUF SM 5210B BOD, 5-Day SM TAL BUF 200.7 Preparation, Total Metals **EPA TAL BUF** 3510C Liquid-Liquid Extraction (Separatory Funnel) SW846 TAL BUF 5030C Purge and Trap SW846 TAL BUF

Protocol References:

Distill/CN

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

Distillation, Cyanide

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

None = None

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Job ID: 480-178376-1

TAL BUF

None

Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
480-178376-1	Post-Carbon 2	Wastewater	11/18/20 09:15	11/18/20 09:45	
480-178376-2	Pre-Carbon	Wastewater	11/18/20 09:20	11/18/20 09:45	
480-178376-3	Outside Sump	Water	11/18/20 09:30	11/18/20 09:45	

Job ID: 480-178376-1

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TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Chain of Custody Record



	(716) 691-2600 Fax (716) 691-7991	Sampler:	NR			Lab P Johr		Orlett	e S				_	Ca	rrier	rackir	g No(s):			COC No: 480-123669-2808	39.1
Client Cont Thomas	tact:	Di	-	8778	57	E-Mai		inson(@test	amer	icaino	com									Page: Page 1 of 1	
Company:	vater & Environmental Services Inc						,		9			_	is R	eque	este	d					Job #:	
Address:		Due Date F	Requeste	ed:					1			u.ye		Cyu	T		T	T	П		Preservation Code	es:
City:	rence Bell Drive Suite 6	TAT Reque	ested (da	iys):							1		1								A - HCL B - NaOH	M - Hexane N - None
Williams State, Zip:			-									1						1			C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
NY, 142			TW	6			П														E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 518-402	2-9662(Tel)	PO#: CallOut I	D 1360	76			6	0		ides		pur	- }	spi				1			G - Amchlor	S - H2SO4 T - TSP Dodecahydrate
Email:	@gesonline.com	WO#: GES Pro	iect#0	901691			o l	s or No) Recoverable		Pesticides		Demand	spi	d Solids	Ì	1				ys.	I - Ice J - DI Water	U - Acetone V - MCAA
Project Na	ame:	Project #:					le (Yes	Reco	ars)	tant F	4	Oxygen	d Solids	solve			804			containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	n WWTP #915171 - Quarterly Event Desc: Quarterly	4800252 SSOW#:	.5				mple	Total	CP-51 (Stars)	Pollutant	svo	al Ox	ende	al Dis	lotal		CI.S	Na N	otal	cont	Other:	
New Yor	rk						d Sa		CP.	iority) TCI	nemic	Susp	- Tot	e, 10	Hd .	MOD	X,	L'Aji	er of		
					Sample Type	Matrix (w=water,	iltere	m MS/MS Phenolics,	15	608_Pest - Priority	- (MOD) TCL SVOA	5210B - Biochemical	2540D - Total Suspended	2540C_Calcd - Total Dissolved	335.4 - Cyanide,	ŧ,	300.0 28D - (MOD) CL.	200.7 - Ca, Mg,	310.2 - Alkalinity, Total	Total Number		
				Sample	(C=comp,	S=solid, O=waste/oil,	ela F	Perfor 420.4 -	8260C - TCL	8 Pe	8270C -	10B	40D	40C	- 4.0	SM4500_H+	000	0.7	0.2	otal N		
	eldentification	Sample	Date	Time		BT=Tissue, A=Air	W	X S	8 A	N 80	2010/00/00	5825 0200	CONTRACT OF	8 8 V B	F-455 70	Section 1888			N	Š	Special In	structions/Note:
Post-Ca	arbon 2	11/15	\$ 20	0915	G	Water	n	n X	-	-	Х	Х	X	-		-	X					
Pre-Car	rbon	11/18	120	0920	G	Water	n	n	X)	(x	X			
Outside	Sump	1	120	0930	G	Water	n	n	X													
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Possih	ole Hazard Identification			J			1	Same	Vo Di	snos	2// 1	foo	2014	20.20	505	od ii	com	plas	250.5	otair	ned longer than 1	month)
	on-Hazard Flammable skin Irritant Pois	on B	N _{nkr}	nown 🗀	Radiological						Clier		, ay	Dis	spos	al By	Lab	pies		Arci	hive For	Months
Deliver	rable Requested: I, II, III, IV, Other (specify)							Speci					equire	ment	s:							
Empty	Kit Relinquished by:		,	Date:			Tir	ne:		A				-		Metho	of Sh	ipmen	:	-		
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	tody Seals Intact: Custody Seal No.:							C	ooler 7	empe	rature(s	s) °C a	nd Oth	er Ren	narks		0	3.	2		HIRE	
20	1 100 1110						_			_		-				_	-	-1	_			Ver: 01/16/2019

Chain of Custody Record

Eurofins TestAmerica, Buffalo

eurofins Environment Testing America

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	•		Silain of custody record	ton)	5	3							America	m
Client Information (Sub Contract Lab)	Sampler:			Lab PM. Johnse	Lab PM: Johnson, Orlette S	ette S			Carrie	Carrier Tracking No(s):		COC No: 480-60617.1		
Client Contact: Shipping/Receiving	Phone:			E-Mail: Orlett	te. Johns	on@Eur	E-Mail: Orlette.Johnson@Eurofinset.com	E	State of Orig New York	State of Origin: New York		Page: Page 1 of 1		
Сомрану: TestAmerica Laboratories, Inc.					Accredita NELAP	Accreditations Required NELAP - New York	Accreditations Required (See note): NELAP - New York	te):				Job #: 480-178376-1	-	
Address: 777 New Durham Road, ,	Due Date Requested: 12/2/2020	Ü					Ā	alysis	Analysis Requested	pə		Preservation Codes:	Codes:	
City: Edison	TAT Requested (days):	ys):										B - NaOH C - Zn Acetate	N - None O - AsNaO2	O2
State, Zip: NJ, 08817												D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3	48 03
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				(0		-				#1120N	G - Amchlor H - Ascorbic Acid		R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email:	WO #:				THE SECTION	po								ne
Project Name: Gastown WW/TP #915171	Project #: 48002525				0002310000	al Meth						K - EDTA	W - pH 4-5 Z - other (specify)	.5 (specify)
Site: Gastown WWTP	SSOW#:				- W. S. W. S.	D) Foc						Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Perform MS/M	OM) \qu_A4991						Total Mumber Species	Special Instructions/Note:	ns/Note:
	\setminus	X	Preserva	Preservation Code:	X						_			1
Post-Carbon 2 (480-178376-1)	11/18/20	09:15 Eastern		Water		×						2		
												E0100		
											2000			
												200		
											G D M B			
											36082			
											10 (10°, 10°)	72.238		
Note: Since laboratory accreditations are subject to change. Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently	ica places the ownership	of method, a	nalyte & accred	litation complia	nce upon	ut subcont	ract laboral	ories. This	sample ship	nent is forwarded u	inder chain	of-custody. If the l	aboratory does	not currently

maintain accreditation in the State of Origin listed above for analysis/nests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification

Unconfirmed		Return To Client Disposal By Lab Archive For_	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time: Method of Shipment:	
Relinquished by: (MM Wow ((40/ b)	Date/Time: [1/34/24 1766/mpany	TRECEIVED by: LEALE DATE THE COMPANY THE C	1000 Company
Relinquished by:	Date/Time: Company	Received by: Date/Time:	Company
Relinquished by:	Date/Time: Company	Received by: Date/Time:	Company
Custopy Seals Intact: Custody Seal No.: (17716	-	Cooler Temperature(s) °C and Other Remarks: 2,2 % D2//	

Client: New York State D.E.C.

Job Number: 480-178376-1

Login Number: 178376 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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	3.2 #1 ICE
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 (Excluding tests with immediate HTs)	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.	True	

Eurofins TestAmerica, Buffalo

Chlorine Residual checked.

N/A

Client: New York State D.E.C.

Job Number: 480-178376-1

Login Number: 178376

List Number: 2

Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison

List Creation: 12/01/20 11:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1427161
Sample custody seals, if present, are intact.	N/A	
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	2.2°C IR11
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-179496-1

Client Project/Site: Gastown WWTP #915171

Sampling Event: Monthly

For:

New York State D.E.C. 625 Broadway 11th Floor Albany, New York 12233-3256

Attn: Mr. Doug K MacNeal

Wydt Dwat on

Authorized for release by: 12/30/2020 3:54:15 PM
Wyatt Watson, Project Management

Wyatt Watson, Project Management Assistant I Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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.

Wyst Bloton

Wyatt Watson Project Management Assistant I 12/30/2020 3:54:15 PM -

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Client: New York State D.E.C. Project/Site: Gastown WWTP #915171 Laboratory Job ID: 480-179496-1

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Receipt Checklists	17

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased.

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

General Chemistry

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: New York State D.E.C.

Job ID: 480-179496-1 Project/Site: Gastown WWTP #915171

Job ID: 480-179496-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-179496-1

Comments

No additional comments.

Receipt

The samples were received on 12/16/2020 3:10 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: OUTSIDE SUMP (480-179496-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-563787 recovered above the upper control limit for Carbon tetrachloride, Dichlorobromomethane, Chlorodibromomethane and 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: OUTSIDE SUMP (480-179496-3).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-563787 recovered outside control limits for the following analytes: Chlorodibromomethane, Bromoform and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-179496-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: Pre-Carbon (480-179496-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 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 has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Post-Carbon 2 (480-179496-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 12/16/20 14:45 Date Received: 12/16/20 15:10 Lab Sample ID: 480-179496-1

Matrix: Wastewater

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/29/20 13:07	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/29/20 13:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/29/20 13:07	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/29/20 13:07	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/29/20 13:07	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/29/20 13:07	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/29/20 13:07	
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			12/29/20 13:07	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/29/20 13:07	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/29/20 13:07	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/29/20 13:07	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/29/20 13:07	
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			12/29/20 13:07	
1,3-Dichlorobenzene	ND		1.0	0.78	-			12/29/20 13:07	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/29/20 13:07	
2-Butanone (MEK)	ND		10		ug/L			12/29/20 13:07	
2-Hexanone	ND	,	5.0		ug/L			12/29/20 13:07	
4-Isopropyltoluene	ND		1.0	0.31	-			12/29/20 13:07	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/29/20 13:07	
Acetone	ND		10		ug/L			12/29/20 13:07	
Benzene	ND		1.0	0.41	•			12/29/20 13:07	
Bromoform	ND			0.26				12/29/20 13:07	
Bromomethane	ND			0.69	_			12/29/20 13:07	
Carbon disulfide	ND			0.19	-			12/29/20 13:07	
Carbon tetrachloride	ND			0.27				12/29/20 13:07	
Chlorobenzene	ND			0.75				12/29/20 13:07	
Dibromochloromethane	ND			0.32	-			12/29/20 13:07	
Chloroethane	ND			0.32				12/29/20 13:07	
Chloroform	ND			0.34	-			12/29/20 13:07	
Chloromethane	ND				ug/L			12/29/20 13:07	
cis-1,2-Dichloroethene	ND				ug/L			12/29/20 13:07	
Cyclohexane	ND			0.18	-			12/29/20 13:07	
Bromodichloromethane	ND			0.39	-			12/29/20 13:07	
Dichlorodifluoromethane	ND			0.68				12/29/20 13:07	
Ethylbenzene	ND		1.0	0.74	-			12/29/20 13:07	
1,2-Dibromoethane	ND		1.0	0.73	-			12/29/20 13:07	
Isopropylbenzene	ND		1.0		ug/L			12/29/20 13:07	
Methyl acetate	ND		2.5		ug/L			12/29/20 13:07	
Methyl tert-butyl ether	ND		1.0		ug/L			12/29/20 13:07	
Methylcyclohexane	ND		1.0		ug/L			12/29/20 13:07	
Methylene Chloride	ND		1.0		ug/L			12/29/20 13:07	
m,p-Xylene	ND		2.0		ug/L			12/29/20 13:07	
Naphthalene	ND ND		2.0 1.0		ug/L			12/29/20 13:07	
n-Butylbenzene	ND ND		1.0		ug/L ug/L			12/29/20 13:07	
N-Propylbenzene	ND ND		1.0		ug/L ug/L			12/29/20 13:07	
o-Xylene	ND		1.0		ug/L ug/L			12/29/20 13:07	
-	ND ND		1.0		-				
sec-Butylbenzene	ND ND				ug/L			12/29/20 13:07	
Tetrachloroethene Toluene	ND ND		1.0 1.0		ug/L ug/L			12/29/20 13:07 12/29/20 13:07	

Eurofins TestAmerica, Buffalo

12/30/2020

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Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Post-Carbon 2

Date Collected: 12/16/20 14:45 Date Received: 12/16/20 15:10 Lab Sample ID: 480-179496-1

Matrix: Wastewater

Analyzed

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L		
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L		
Trichloroethene	ND		1.0	0.46	ug/L		
Trichlorofluoromethane	ND		1.0	0.88	ug/L		

trans-1,2-Dichloroethene	ND ND	1.0	0.90 ug/L	12/29/20 13:07
trans-1,3-Dichloropropene	ND	1.0	0.37 ug/L	12/29/20 13:07
Trichloroethene	ND	1.0	0.46 ug/L	12/29/20 13:07
Trichlorofluoromethane	ND	1.0	0.88 ug/L	12/29/20 13:07
Vinyl chloride	ND	1.0	0.90 ug/L	12/29/20 13:07
Xylenes, Total	ND	2.0	0.66 ug/L	12/29/20 13:07
cis-1,3-Dichloropropene	ND	1.0	0.36 ug/L	12/29/20 13:07
Styrene	ND	1.0	0.73 ug/L	12/29/20 13:07
tert-Butylbenzene	ND	1.0	0.81 ug/L	12/29/20 13:07

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	77 - 120	_		12/29/20 13:07	1
4-Bromofluorobenzene (Surr)	104	73 - 120			12/29/20 13:07	1
Toluene-d8 (Surr)	101	80 - 120			12/29/20 13:07	1
Dibromofluoromethane (Surr)	106	75 - 123			12/29/20 13:07	1

General Chemistry Analyte Cyanide, Total	Result 0.081	Qualifier	RL 0.010	MDL 0.0050		_ <u>D</u>	Prepared 12/17/20 19:12	Analyzed 12/18/20 16:27	Dil Fac
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	HF	0.1	0.1	SU			12/18/20 10:20	1
Temperature	22.2	HF	0.001	0.001	Degrees C			12/18/20 10:20	1

Dil Fac

Eurofins TestAmerica, Buffalo

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Client Sample ID: Pre-Carbon Date Collected: 12/16/20 14:50

Date Received: 12/16/20 15:10

n-Butylbenzene

o-Xylene

Toluene

N-Propylbenzene

sec-Butylbenzene

Tetrachloroethene

Lab Sample ID: 480-179496-2

Matrix: Wastewater

Method: 8260C - Volatile Orgar Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	40	33	ug/L			12/29/20 13:30	4
1,1,2,2-Tetrachloroethane	ND	40	8.4	ug/L			12/29/20 13:30	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	12	ug/L			12/29/20 13:30	4
1,1,2-Trichloroethane	ND	40	9.2	ug/L			12/29/20 13:30	4
1,1-Dichloroethane	ND	40	15	ug/L			12/29/20 13:30	4
1,1-Dichloroethene	ND	40	12	ug/L			12/29/20 13:30	4
1,2,4-Trichlorobenzene	ND	40	16	ug/L			12/29/20 13:30	4
1,2,4-Trimethylbenzene	ND	40	30	ug/L			12/29/20 13:30	4
1,2-Dibromo-3-Chloropropane	ND	40	16	ug/L			12/29/20 13:30	4
1,2-Dichlorobenzene	ND	40	32	ug/L			12/29/20 13:30	4
1,2-Dichloroethane	ND	40	8.4	ug/L			12/29/20 13:30	4
1,2-Dichloropropane	ND	40	29	ug/L			12/29/20 13:30	4
1,3,5-Trimethylbenzene	ND	40	31	ug/L			12/29/20 13:30	4
1,3-Dichlorobenzene	ND	40	31	ug/L			12/29/20 13:30	4
1,4-Dichlorobenzene	ND	40	34	ug/L			12/29/20 13:30	4
2-Butanone (MEK)	ND	400	53	ug/L			12/29/20 13:30	4
2-Hexanone	ND	200	50	ug/L			12/29/20 13:30	4
4-Isopropyltoluene	ND	40	12	ug/L			12/29/20 13:30	4
4-Methyl-2-pentanone (MIBK)	ND	200	84	ug/L			12/29/20 13:30	4
Acetone	ND	400	120	ug/L			12/29/20 13:30	4
Benzene	3600	40	16	ug/L			12/29/20 13:30	4
Bromoform	ND	40	10	ug/L			12/29/20 13:30	4
Bromomethane	ND	40	28	ug/L			12/29/20 13:30	4
Carbon disulfide	ND	40	7.6	ug/L			12/29/20 13:30	4
Carbon tetrachloride	ND	40	11	ug/L			12/29/20 13:30	4
Chlorobenzene	ND	40	30	ug/L			12/29/20 13:30	4
Dibromochloromethane	ND	40	13	ug/L			12/29/20 13:30	4
Chloroethane	ND	40	13	ug/L			12/29/20 13:30	4
Chloroform	ND	40	14	ug/L			12/29/20 13:30	4
Chloromethane	ND	40	14	ug/L			12/29/20 13:30	4
cis-1,2-Dichloroethene	ND	40	32	ug/L			12/29/20 13:30	4
Cyclohexane	ND	40	7.2	ug/L			12/29/20 13:30	4
Bromodichloromethane	ND	40	16	ug/L			12/29/20 13:30	4
Dichlorodifluoromethane	ND	40	27	ug/L			12/29/20 13:30	4
Ethylbenzene	89	40	30	ug/L			12/29/20 13:30	4
1,2-Dibromoethane	ND	40	29	ug/L			12/29/20 13:30	4
Isopropylbenzene	ND	40	32	ug/L			12/29/20 13:30	4
Methyl acetate	ND	100	52	ug/L			12/29/20 13:30	4
Methyl tert-butyl ether	ND	40		ug/L			12/29/20 13:30	4
Methylcyclohexane	ND	40	6.4	ug/L			12/29/20 13:30	4
Methylene Chloride	62	40	18	ug/L			12/29/20 13:30	4
m,p-Xylene	130	80	26	ug/L			12/29/20 13:30	4
Naphthalene	150	40		ug/L			12/29/20 13:30	4

40

40

40

40

40

40

26 ug/L

28 ug/L

30 ug/L

30 ug/L

14 ug/L

20 ug/L

ND

ND

85

ND

ND

570

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12/29/20 13:30

12/29/20 13:30

12/29/20 13:30

12/29/20 13:30

12/29/20 13:30

12/29/20 13:30

40

40

40

40

40

Page 8 of 17 12/30/2020

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Magnesium

Potassium

Sodium

Client Sample ID: Pre-Carbon

Date Collected: 12/16/20 14:50

Lab Sample ID: 480-179496-2

Matrix: Wastewater

Date Collected: 12/16/20 14:50

Date Received: 12/16/20 15:10

Matrix

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		40	36	ug/L			12/29/20 13:30	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			12/29/20 13:30	40
Trichloroethene	ND	ND		18	ug/L			12/29/20 13:30	40
Trichlorofluoromethane	ND		40	35	ug/L			12/29/20 13:30	40
Vinyl chloride	ND		40	36	ug/L			12/29/20 13:30	40
Xylenes, Total	220		80	26	ug/L			12/29/20 13:30	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			12/29/20 13:30	40
Styrene	31	J	40	29	ug/L			12/29/20 13:30	40
tert-Butylbenzene	ND		40	32	ug/L			12/29/20 13:30	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					12/29/20 13:30	40
4-Bromofluorobenzene (Surr)	103		73 - 120					12/29/20 13:30	40
Toluene-d8 (Surr)	100		80 - 120					12/29/20 13:30	40
Dibromofluoromethane (Surr)	105		75 - 123					12/29/20 13:30	40
- Method: 200.7 Rev 4.4 - Me	tals (ICP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	115000		500	100	ug/L		12/18/20 10:01	12/21/20 20:07	1

General Chemistry Analyte	Result Qualifi	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155	2.5	1.4	mg/L			12/21/20 15:37	5
Sulfate	107	10.0	1.7	mg/L			12/21/20 15:37	5
Alkalinity, Total	342	40.0	16.0	mg/L			12/18/20 19:29	4

200

500

1000

43.4 ug/L

100 ug/L

324 ug/L

39600

4340

100000

12/18/20 10:01 12/21/20 20:07

12/18/20 10:01 12/21/20 20:07

12/18/20 10:01 12/21/20 20:07

3

5

0

9

10

1.

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Date Collected: 12/16/20 15:00 Date Received: 12/16/20 15:10

Lab Sample ID: 480-179496-3 **Matrix: Water**

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	100	82	ug/L			12/18/20 12:46	10
1,1,2,2-Tetrachloroethane	ND	100	21	ug/L			12/18/20 12:46	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	100	31	ug/L			12/18/20 12:46	10
1,1,2-Trichloroethane	ND	100	23	ug/L			12/18/20 12:46	10
1,1-Dichloroethane	ND	100	38	ug/L			12/18/20 12:46	10
1,1-Dichloroethene	ND	100	29	ug/L			12/18/20 12:46	10
1,2,4-Trichlorobenzene	ND	100	41	ug/L			12/18/20 12:46	10
1,2,4-Trimethylbenzene	ND	100	75	ug/L			12/18/20 12:46	10
1,2-Dibromo-3-Chloropropane	ND *+	100	39	ug/L			12/18/20 12:46	10
1,2-Dichlorobenzene	ND	100	79	ug/L			12/18/20 12:46	10
1,2-Dichloroethane	ND	100	21	ug/L			12/18/20 12:46	10
1,2-Dichloropropane	ND	100	72	ug/L			12/18/20 12:46	10
1,3,5-Trimethylbenzene	ND	100		ug/L			12/18/20 12:46	10
1,3-Dichlorobenzene	ND	100		ug/L			12/18/20 12:46	10
1,4-Dichlorobenzene	ND	100		ug/L			12/18/20 12:46	10
2-Butanone (MEK)	ND	1000		ug/L			12/18/20 12:46	10
2-Hexanone	ND	500		ug/L			12/18/20 12:46	10
4-Isopropyltoluene	ND	100		ug/L			12/18/20 12:46	10
4-Methyl-2-pentanone (MIBK)	ND	500		ug/L			12/18/20 12:46	10
Acetone	ND	1000		ug/L			12/18/20 12:46	10
Benzene	5900	100		ug/L			12/18/20 12:46	10
Bromoform	ND *+	100		ug/L			12/18/20 12:46	10
Bromomethane	ND	100		ug/L			12/18/20 12:46	10
Carbon disulfide	ND	100		ug/L			12/18/20 12:46	10
Carbon tetrachloride	ND	100		ug/L			12/18/20 12:46	10
Chlorobenzene	ND	100		ug/L			12/18/20 12:46	10
Dibromochloromethane	ND *+	100		ug/L			12/18/20 12:46	10
Chloroethane	ND	100		ug/L			12/18/20 12:46	10
Chloroform	ND	100		ug/L			12/18/20 12:46	10
Chloromethane	ND	100		ug/L			12/18/20 12:46	10
cis-1,2-Dichloroethene	ND	100		ug/L			12/18/20 12:46	10
Cyclohexane	ND	100		ug/L			12/18/20 12:46	10
Bromodichloromethane	ND	100		ug/L			12/18/20 12:46	10
Dichlorodifluoromethane	ND	100		ug/L ug/L			12/18/20 12:46	10
Ethylbenzene	360	100		ug/L ug/L			12/18/20 12:46	10
1,2-Dibromoethane	ND	100		ug/L			12/18/20 12:46	10
Isopropylbenzene	ND	100		ug/L ug/L			12/18/20 12:46	10
,	ND	250		ug/L ug/L			12/18/20 12:46	10
Methyl acetate	ND ND	100		ug/L ug/L			12/18/20 12:46	10
Methyl tert-butyl ether	ND	100		ug/L ug/L			12/18/20 12:46	10
Methylcyclohexane				-				
Methylene Chloride	220	100		ug/L			12/18/20 12:46	10
m,p-Xylene	180 J	200		ug/L			12/18/20 12:46	10
Naphthalene	670	100		ug/L			12/18/20 12:46	10
n-Butylbenzene	ND ND	100		ug/L			12/18/20 12:46	10
N-Propylbenzene	ND	100		ug/L			12/18/20 12:46	10
o-Xylene	97 J	100		ug/L			12/18/20 12:46	10
sec-Butylbenzene	ND	100		ug/L			12/18/20 12:46	10
Tetrachloroethene Toluene	ND 970	100 100		ug/L ug/L			12/18/20 12:46 12/18/20 12:46	10

Eurofins TestAmerica, Buffalo

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Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-179496-3

Matrix: Water

Date Collected: 12/16/20 15:00 Date Received: 12/16/20 15:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	90	ug/L			12/18/20 12:46	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			12/18/20 12:46	100
Trichloroethene	ND	ND 100 46 ug		ug/L			12/18/20 12:46	100	
Trichlorofluoromethane	oromethane ND 100 88 ug/L		ug/L			12/18/20 12:46	100		
Vinyl chloride	ND		100	90	ug/L			12/18/20 12:46	100
Xylenes, Total	280		200	66	ug/L			12/18/20 12:46	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			12/18/20 12:46	100
Styrene	96	J	100	73	ug/L			12/18/20 12:46	100
tert-Butylbenzene	ND		100	81	ug/L			12/18/20 12:46	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					12/18/20 12:46	100
4-Bromofluorobenzene (Surr)	109		73 - 120					12/18/20 12:46	100
Toluene-d8 (Surr)	102		80 - 120					12/18/20 12:46	100
Dibromofluoromethane (Surr)	109		75 - 123					12/18/20 12:46	100

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

Client Sample ID: Post-Carbon 2

Date Collected: 12/16/20 14:45 Date Received: 12/16/20 15:10 Lab Sample ID: 480-179496-1

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			564669	12/29/20 13:07	OMI	TAL BUF
Total/NA	Prep	Distill/CN			563751	12/17/20 19:12	ALT	TAL BUF
Total/NA	Analysis	335.4		1	563893	12/18/20 16:27	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	563904	12/18/20 10:20	KMF	TAL BUF

Client Sample ID: Pre-Carbon

Date Collected: 12/16/20 14:50 Date Received: 12/16/20 15:10

Lab Sample ID: 480-179496-2

Matrix: Wastewater

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	564669	12/29/20 13:30	OMI	TAL BUF
Total/NA	Prep	200.7			563737	12/18/20 10:01	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	564222	12/21/20 20:07	AMH	TAL BUF
Total/NA	Analysis	300.0		5	564040	12/21/20 15:37	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	563913	12/18/20 19:29	SRW	TAL BUF

Client Sample ID: OUTSIDE SUMP

Lab Sample ID: 480-179496-3 Date Collected: 12/16/20 15:00 **Matrix: Water**

Date Received: 12/16/20 15:10

	Batch Batch			Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C		100	563787	12/18/20 12:46	CRL	TAL BUF	

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-179496-1

Project/Site: Gastown WWTP #915171

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
New York	NE	ELAP	10026	04-01-21
The following analytes	s are included in this repo	NELAP 10026 In this report, but the laboratory is not certified by the government ion. The state of the sta	certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.			
the agency does not on the Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0 ,			Analyte Cyanide, Total	
Analysis Method	Prep Method	Wastewater	Cyanide, Total	

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Method Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-179496-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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	рН	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	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.

None = None

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

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Sample Summary

Client: New York State D.E.C.

Project/Site: Gastown WWTP #915171

Job ID: 480-179496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-179496-1 480-179496-2	Post-Carbon 2 Pre-Carbon	Wastewater Wastewater	,,	12/16/20 15:10 12/16/20 15:10
480-179496-3	OUTSIDE SUMP	Water	12/16/20 15:00	12/16/20 15:10

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CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

	PAGE OF
FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job#

CL	ENT/REPORTING INFORMATION		PROJECT INF	ORMATION		6 10		BILLIN	G INF	ORM	ATIO	V			157	1	- 1-1		-	D ANAL		1 10		NLY
Project M Thomas P PM Email:	Project Manager: Phone #: Thomas Palmer 800-287-7857 PM Email: Fax #: tpalmer@gesonline.com 866-902-2187		Project /	/NY/ENiagaraS Address: , Tonawanda, N PSID #: 731			NYSDEC Region 9 NYSDEC Project Manager: Glenn May Phone #: 716-851-7200 Invoice Instructions NYSDEC Site No. 915171 Lab Project Manager: Orlette Johnson number of preserved b					anager: Glenn May 16-851-7200 astructions 2 No. 915171			Cyanide, Total 0_H+-pH			- Cl, SO4	Mg, K, Ha	Alkalinity, Total			46.1	
Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	HCI	NaOH	HNO3	H2504	NONE	DI Water	MEOH	Amber	335.4 -	SM4500_H+	8260C - TCL	300.0_28D	200.7 - Ca,	310.2 - Alk			
	Post Carbon 2		12/16	1445	M	WG	5	3	1		1	1	1	_		X	Х	X			-		_	
	Pre-Carbon		12/16	1450	we	WG	6	3		1		2	-	_	_			X	X	Х	X		-	_
	Outside Sump	-	12/16	1500	me	WG	3	3	H	-	\vdash	+	+	+	+			X					+	_
344									H		\exists	4	4	1	-								-	
7												\forall	+	+	+								-	_
12																								
													1											
		-						-		-		+	+	+	+		-						+	-
		1						-				\dashv	+	+										_
☐ Stand	Sample Custody must be documented I	//	mples change po	: S11/EQEDD.zip	A	oln	7			Cor FUL NJ I Cor NY/ NY/ Sta	mmero	ial 'A' ial 'B" evel 3 ed = Re ial 'C' f Know tegory tegory	(Level (Level & 4) esuits	12)=Re +QC5	esults C	QC Sum	al Raw E							

12/30/2020

Custody Seal Number:

Intact

Not Intact

Preserved where applicable

Cooler Temp

☐ On Ice

Client: New York State D.E.C.

Job Number: 480-179496-1

Login Number: 179496 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

HTs)..

MS/MSDs

diameter.

needs

Sample containers have legible labels.

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any requested

VOA sample vials do not have headspace or bubble is <6mm (1/4") in

If necessary, staff have been informed of any short hold time or quick TAT

Appropriate sample containers are used.

Containers are not broken or leaking.

Sample bottles are completely filled.

Multiphasic samples are not present.

Sampling Company provided.

Chlorine Residual checked.

Samples do not require splitting or compositing.

Samples received within 48 hours of sampling.

Samples requiring field filtration have been filtered in the field.

Sample Preservation Verified

Creator: Stopa, Erik S

Greator. Stopa, Erik S		
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 (Excluding tests with immediate	True	

True

True

True

True

True

True True

True

True

True

True True

True

N/A

N/A

GES

Eurofins TestAmerica, Buffalo